The background of the upper half of the page is a dark, abstract image of a molecular or cellular structure. It features a large, glowing blue ring that frames a central bright yellow and orange light source. The structure is composed of intricate, fibrous patterns in shades of blue, purple, and red, suggesting a complex biological or chemical environment.

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Dear Colleagues and Friends,

On behalf of the World Molecular Imaging Society (WMIS) and the 2015 Steering and Program Committees, it is my distinct privilege to welcome you to Honolulu, Hawaii for the 8th annual meeting of the World Molecular Imaging Congress (WMIC). Known historically as the “Crossroads of the Pacific”, Honolulu is an exceptional venue for our congress, where an incredibly diverse repertoire of imaging scientists and clinicians will assemble in a relaxing, friendly atmosphere to share the latest and most exciting discoveries in molecular imaging. In addition to the sheer beauty of Hawaii, Honolulu is a major hub for international commerce and vibrant in Pacific history, culture and cuisine that is not to be missed.

The theme of the 2015 meeting is *Precision Medicine... Visualized*, which embodies current and future roles of molecular imaging in basic science, translational medicine and healthcare. Our program this year is comprised of five major categorical emphases: Chemistry & Imaging Probes, First-in-Human & Clinical Studies, Preclinical Cell & Tissue Level Studies, Preclinical in vivo Studies and Technology & Software Developments. These emphases are further distilled into more focused categories that amplify a fully comprehensive program.

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Building upon prior meeting successes and member feedback, we are pleased to illuminate a number of ‘firsts’ associated with the 2015 WMIC Program. These include a new, streamlined format for oral sessions, which will include a ‘Highlights’ award lecture selected from the highest-scoring scientific abstracts, followed by six focused talks in rapid succession. Several new Program elements specifically target future aspects of molecular imaging, including formal recognition of abstracts that exemplify the ‘Hot Topics’ defined by the Society and the first WMIC Fellow’s Forum, where luminaries in the field will share their visions for future directions in molecular imaging in an informal and interactive setting. Several Program elements have been envisioned to connect attendees with newly commercialized molecular imaging technologies. New in 2015, scientific abstracts are being solicited for a special ‘exhibitors-only’ track; each submitted abstract will be reviewed, scored and included in meeting materials. The highest scoring exhibitor abstracts will be featured in a special oral session, following which WMIS members will select one finalist for a new exhibitor award, “Commercial Innovation of the Year”.

We have gathered a group of internationally renowned Plenary Speakers including Zena Werb, Chien Ho, Philipp Scherer, Jon-Kar Zubieta, and Elizabeth Morris. These outstanding speakers from around the globe will speak on a diversity of broadly appealing topics that include metabolism, immunology, neuroscience, and cancer. In addition, John Gore will deliver the ever-popular Meeting Highlights Lecture, where the most exciting science presented throughout this year’s Congress will be summarized in one lecture. In addition to outstanding Plenary lectures, this year’s program features an incredible collection of Spotlight Sessions that lead off each day of the Scientific Program. Topics of this year’s Spotlight Sessions include Infectious Disease, Men’s and Women’s Imaging, Ultrasound, Companion Diagnostics, Metabolism, Radiogenomics, and Early Career. Beyond these

sessions, industry leaders from major pharmaceutical companies will hold a panel discussion on critical barriers affecting Translational Imaging and Drug Discovery.

In 2014, the WMIC completed a three-year Education Program cycle. Building upon this widely-popular aspect of the WMIC, in 2015, we are pleased to introduce an entirely new Education Program, featuring several new tracks while retaining some of most popular from previous years. The Education Co-Chairs for 2015 are Kimberly Kelly and Danielle Vughts; they have assembled an outstanding program certain to be valuable for all investigators, seasoned and new. This year’s Education Program will launch with a special “Molecular Imaging-101” lecture delivered by John Frangioni, which immediately precedes four parallel tracks that explore molecular imaging Principles and Practices (CME), molecular imaging in Pharmaceutical Discovery, Development, and Toxicity, Hot Topics in molecular imaging, and Professional Development. In 2015, we are pleased to offer Continuing Medical Education tracks each day of the meeting.

Our Poster Program Chair Jan Grimm and Vice Chairs, Claudia Kuntner and Peter Brader have developed a stimulating and highly interactive Poster Recognition Program. As always, submissions will be reviewed by members of the Program Committee and awards will be given to the best posters based on scientific content and quality of presentation. New to 2015, award winning posters will also be featured at select times in a Power-Presentation Theater located in the Exhibit Hall- you won’t want to miss this opportunity to meet the award winners and hear more about their innovative science. Furthermore, in 2015 exhibitors will have the opportunity to select one abstract from the Poster Program that illustrates the most innovative utilization of their technology; these award-winning abstracts will be highlighted in two special poster sessions during the week.

I would be remiss if I did not also acknowledge the essential roles played by Andrea Diaz and Lisa Baird in making this Congress happen. With the support of this team, and this year’s Program Committee Vice-Chair, Fabian Keissling, we have built an incredible program. Dr. Keissling will become the Program Chair for next year’s meeting and I am certain that you will be equally impressed with WMIC 2016. I ask that you make plans now to attend what is certain to be another phenomenal meeting.

In summary, we sincerely hope that you take advantage of these opportunities to Discover, Visualize, Learn, and Cure with molecular imaging. In addition, we hope you enjoy the generous traditional Pacific culture and friendship during your stay in Honolulu.

Mahalo,

H. Charles Manning, Ph.D.
Program Chair
World Molecular Imaging Congress 2015



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Please wear your badge to all meetings and social functions. Registered accompanying persons and guests must also wear their badges to social functions. Children six and under are complimentary and do not need a name badge.

ACCOMPANYING PERSONS & GUESTS

You will find the name badges for your pre-registered guests in your Badge Envelope as well as their pre-purchased Gala Event tickets. You may also register guests onsite at the Onsite Registration Desk and purchase tickets for the Saturday night Gala Event, should space permit.

INTERNET ACCESS

WiFi Internet access is available throughout the Convention Center. Additionally, during exhibit hours an Internet Café will be available for your convenience in the Exhibit Hall as well as designated internet hotspots and charging stations.

- Wireless Network SSID: WMIS@WiFi
- WPA2 Password: wmic2015

ITINERARY PLANNER & MOBILE APP

Scan the QR Code below to connect to the WMIC:

- Browse the WMIC program
- View session and presentation details
- Add individual presentations or entire sessions to your personal itinerary and view schedule conflicts
- Search for sessions and presentations based on name, institution, Final ID and session and presentation titles.

**ABSTRACT ACCESS**

For your convenience, we offer two methods for viewing full abstracts: on our website - which has a fully searchable link to abstracts and if you are a member you will be given access to the abstracts in our online journal post-conference.

After the conference, there will be an "Online Virtual Portal" available to attendees to view all oral presentations.

MEETING ROOMS

Plenary Sessions will be in the Kalakaua Ballroom B&C. Scientific Sessions, Educational Sessions, Spotlight Sessions, and Industry Workshops will be held in breakout rooms 311 – 320 located on the second floor of the Hawaii Convention Center. Please see the program schedule for specific room assignments. The Technical Exhibits as well as the Posters are located in Exhibit Hall D.

CONTINUED MEDICAL EDUCATION

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the Society of Nuclear Medicine and Molecular Imaging Inc. and the World Molecular Imaging Society. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Please visit the registration desk to pick-up a CME application.

The following Sessions will be providing CME credits to attendees of the WMIC 2015:

- Plenary Session 2: Breast Imaging
- Plenary Session 5: Endogenous Opioid Systems and Resiliency in Humans
- Education Session 1: Standards for Molecular Research
- Education Session 6: Inflammation Neurology
- Education Session 10: Inflammation Cancer
- Education Session 11: Radiomics
- Spotlight Session 2: Infectious Disease
- Spotlight Session 3: Women's Imaging
- Spotlight Session 6: Molecular Imaging Based Companion Diagnostics
- Spotlight Session 7: Men's Health
- Spotlight Session 8: Animal Model Systems for Co-clinical Trials
- Spotlight Session 9: Metabolic Reprogramming: Implications for Cancer Imaging & Therapy
- Spotlight Session 10: Oncogenetic Tumor Heterogeneity Translated to Imaging, Radiomics and Radiogenomics
- Scientific Session 1: First-in-Human & Clinical Studies: Oncology
- Scientific Session 11: First-in-Human & Clinical Studies
- Scientific Session 21: First-in-Human & Clinical Studies
- Late Breaking Abstracts Session 1

SPEAKER READY ROOM

Presenters may bring their presentations on a USB drive to the Speaker Ready Room, located in the Room 318B on the second floor of the Hawaii Convention Center. Speakers should check in their presentation information at least four hours before their scheduled presentation. Speakers may also preview and time their presentations in the Speaker Ready Room. A presentation collection manager will be available in the room during meeting times and on Wednesday morning before the formal start of the conference.

Speaker Ready Room Hours

Tuesday, September 1	13:00 - 18:00
Wednesday, September 2	07:00 - 18:00
Thursday, September 3	06:30 - 18:00
Friday, September 4	06:30 - 18:00
Saturday, September 5	06:30 - 16:30



POSTER SESSIONS

There are four, 1 hour Poster Sessions - one per day. Odd number posters will be presented for the first 30 minutes of each session and even numbers for the second 30 minutes. Late Breaking Posters will be presented during Poster Session 2. In addition, informal poster presentations will be hosted by poster judges who will be awarding best poster to poster award nominees. A help desk has been set up near registration to answer any poster related questions.

POSTER SET UP AND DISMANTLE TIMES

Poster installation may begin at 08:00 on Wednesday, September 2 and must be completed by 17:00 the same day. Poster removal may begin no sooner than 14:45 on Saturday, September 5 and must be completed by 19:00 the same day. Posters left up after this time will be discarded.

EXHIBIT HALL AND HOURS

All participants are encouraged to visit the exhibitors and familiarize themselves with the molecular imaging technologies, products, and services that will be displayed. This year the Technical Exhibition will open on Wednesday, September 2 at 17:15. The Exhibit Hall will open at 09:30 and close at 18:00 on Thursday, September 3, 09:30 to 19:30 on Friday, September 4, 09:30 to 15:00 on Saturday, September 5.

EXHIBIT HALL REMINDERS

Canvassing or distributing advertising materials by an exhibitor will not be permitted outside the exhibitor's allotted space. Canvassing in any part of the exhibit hall or meeting rooms by anyone representing or connected with a non-exhibiting company is strictly forbidden.

WEDNESDAY NIGHT OPENING RECEPTION

This is a non-ticketed event for registered attendees. For non-attendees, passes may be purchased at the registration desk for a \$20 fee.

**SATURDAY NIGHT GALA:
ISLAND LUAU UNDER THE STARS**

**Dinner, entertainment, and a unique cultural experience.
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The WMIC 2015 Gala Luau Event will be held at the Hilton Hawaiian Village Great Lawn on Saturday, September 5 after the conclusion of the last Plenary Session of the Congress. This is a ticketed event. Tickets for attendees and guests can be purchased online when you register for the congress and at the registration desk throughout the conference. Tickets prices are \$50 USD each, and \$25 USD for students. Casual party attire is recommended. This event is expected to sell out.

RECORDING DEVICES

Due to copyright restrictions, all audio recording and/or videotaping of presentations is strictly prohibited. Exhibitors are allowed to photograph or videotape their company's booth during regular floor access hours for exhibitor personnel without the use of additional electrical lighting. This does not include setup and dismantle hours. Exhibitors may not photograph or videotape another exhibitor's display without permission from that exhibitor.

JOB OPPORTUNITIES

Those seeking positions and those seeking to fill positions may post information on a job board in the Registration area.

ATTENDEE REGISTRATION HOURS

Tuesday, September 1	12:00 - 18:00
Wednesday, September 2	07:00 - 18:00
Thursday, September 3	07:00 - 18:00
Friday, September 4	09:30 - 18:00
Saturday, September 5	09:30 - 14:45

**EXHIBITOR REGISTRATION AND
INFORMATION HOURS**

Tuesday, September 1	08:00 - 18:00
Wednesday, September 2	07:00 - 18:00
Thursday, September 3	07:00 - 18:00
Friday, September 4	09:30 - 18:00
Saturday, September 5	09:30 - 14:45



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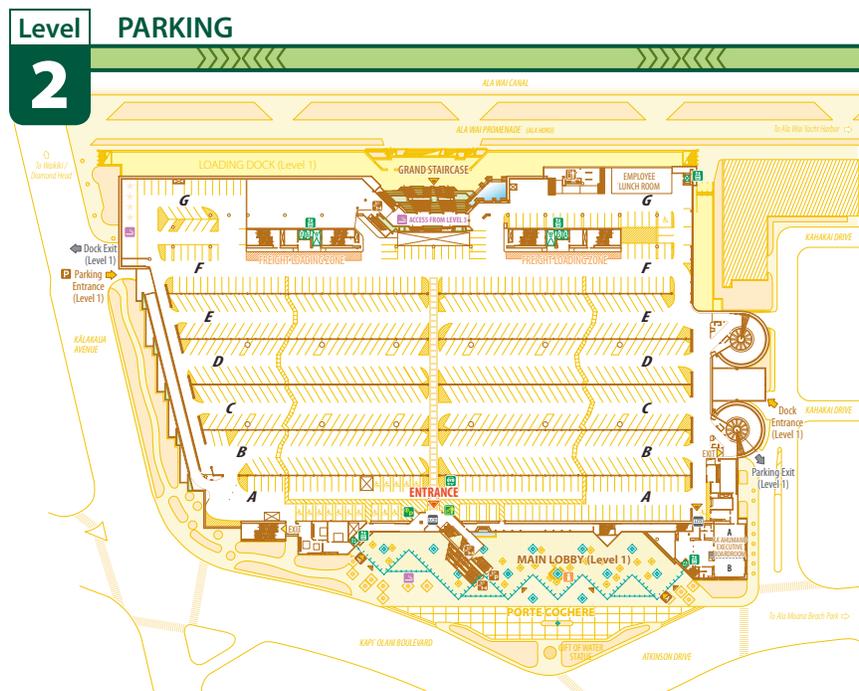
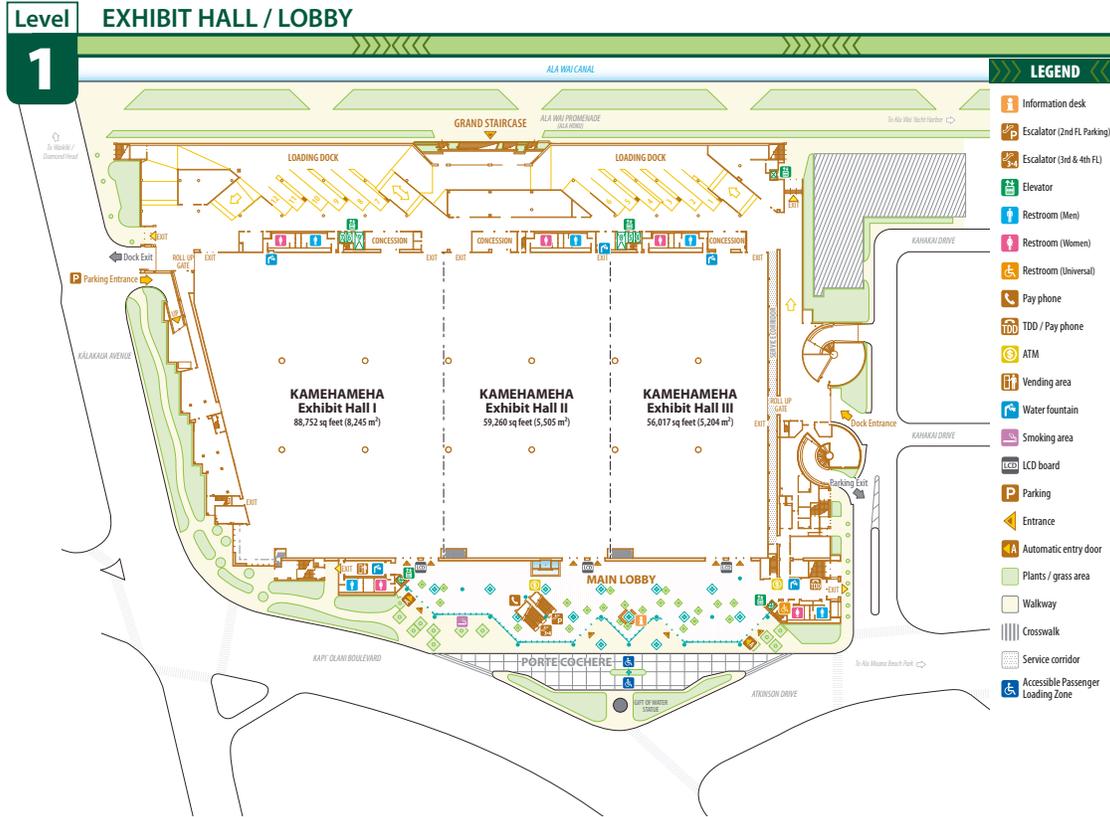


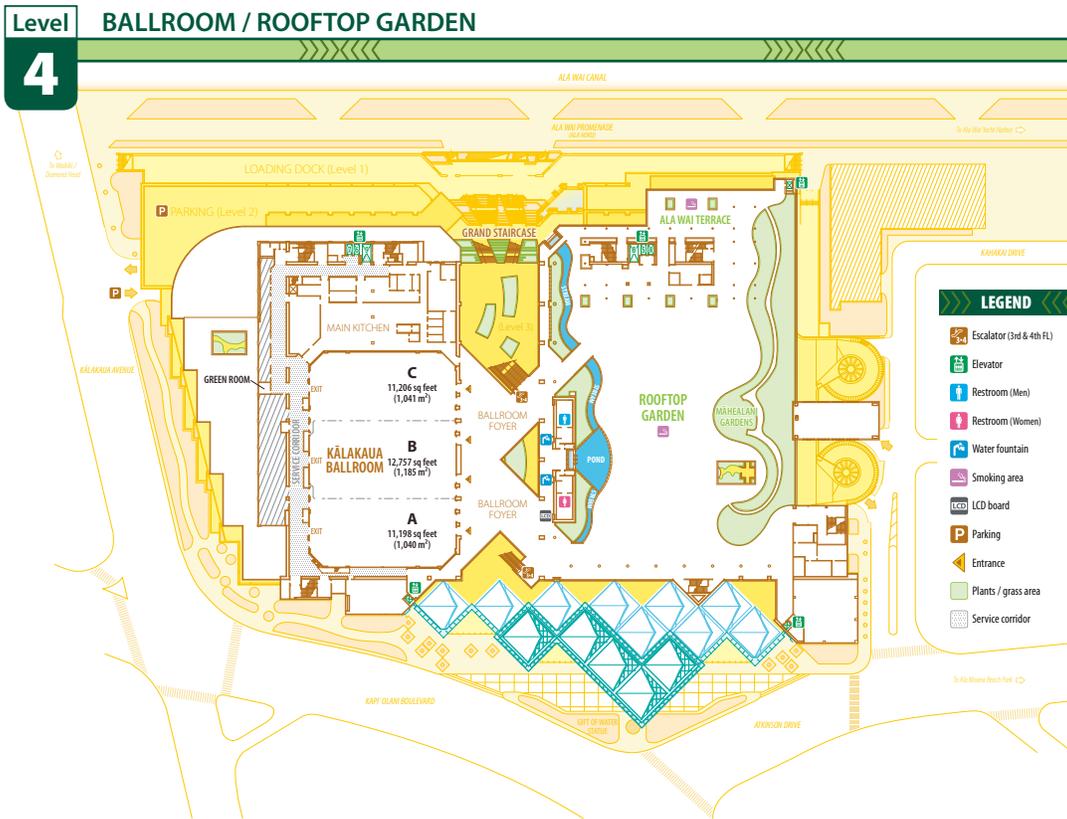
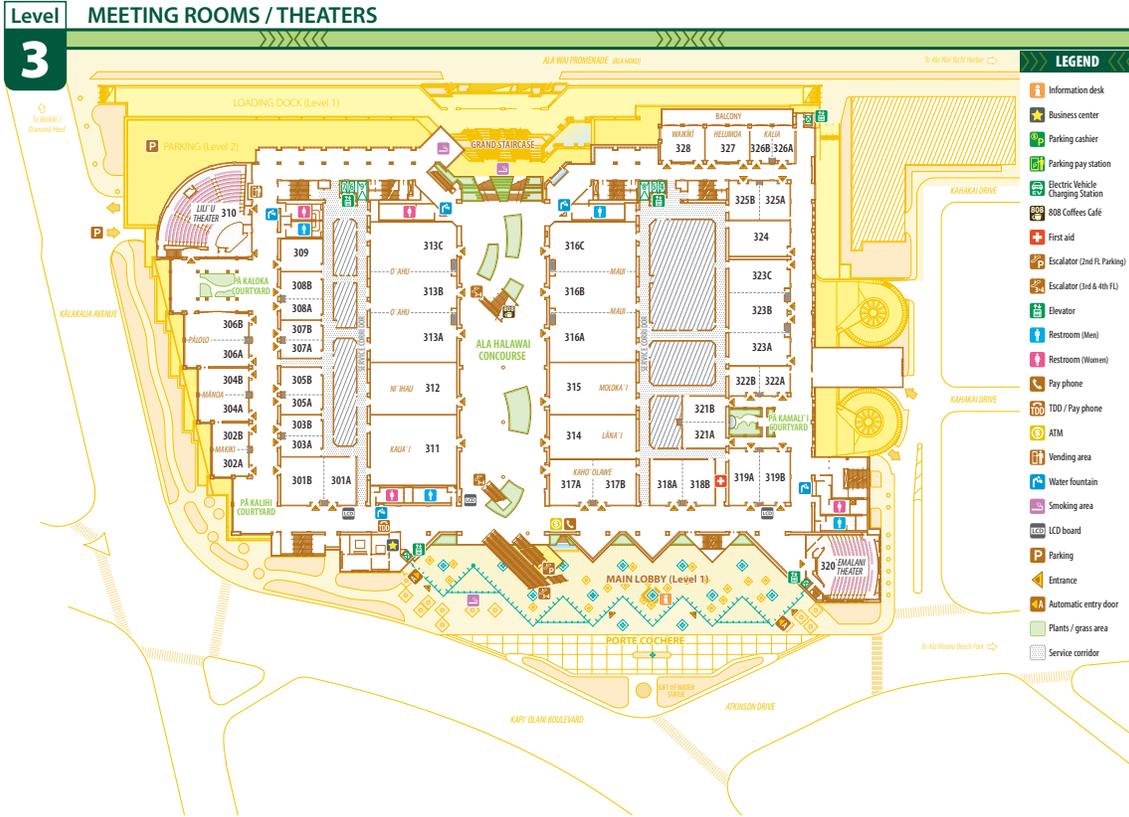
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JOHN C. GORE, PH.D.**Closing Ceremony Highlight Lecture**

Saturday, September 5 at 15:00

Talk title: **Highlight Lecture**

John C. Gore, Ph.D., holds the Hertha Ramsey Cress Chair in Medicine and is a University Professor of Radiology and Radiological Sciences, Biomedical Engineering, Physics and Astronomy, and Molecular Physiology and Biophysics. Dr. Gore obtained his Ph.D. in Physics at the University of London in the UK and also holds a degree in Law. He is a member of the National Academy of Engineering and an elected Fellow of the American Association for the Advancement of Science, the American Institute of Medical and Biological Engineering, the International Society for Magnetic Resonance in Medicine (ISMRM), the American Physical Society and the Institute of Physics (UK). He is also a Distinguished Investigator of the Academy of Radiology Research. He has served twice as an elected trustee of the ISMRM, is editor-in-chief of the journal *Magnetic Resonance Imaging* and is a member of the National Advisory Council for the National Institute of Biomedical Imaging and Bioengineering. He has been honored with several awards including the Gold Medal of the ISMRM (2004) for his contributions to the field of magnetic resonance imaging, the Earl Sutherland Award for Achievement in Research from Vanderbilt, and is an Honorary Professor at Zhejiang University in China. Dr. Gore founded the pioneering MRI research program at Hammersmith Hospital in the UK in the late 1970's prior to establishing and directing the MRI research program at Yale University from 1982-2002. Since 1982 he has served as the founding director of the Vanderbilt University Institute of Imaging Science, a comprehensive, trans-institutional center that is engaged in multi-modal research for biomedical applications. He has published over 600 original papers and contributions within the medical imaging field. His research interests include the development and application of multimodal imaging methods for understanding tissue physiology and structure, molecular imaging and functional brain imaging.

**CHIEN HO, PH.D.****Plenary Session 3**

Thursday, September 3 at 16:00

Talk Title: **How Improvements in In-vivo Cell Labeling by MRI Contrast Agents May Lead to Better Drug Deliver**

Chien Ho received his BA degree in Chemistry from Williams College, Williamstown, MA and his Ph.D. in Physical Chemistry from Yale University, New Haven, CT. He completed his postdoctoral training in



the Departments of Chemistry and of Biology at Massachusetts Institute of Technology. He is currently an Alumni Professor of Biological Sciences at Carnegie Mellon University, Pittsburgh, PA.

Dr. Ho started his academic career as an Assistant Professor of Biophysics in the Department of Biophysics at the University of Pittsburgh in 1964. He was promoted to Associate Professor of Molecular Biology in 1967 and Professor of Molecular Biology in 1971. In 1979, he was recruited by Carnegie Mellon University to build a modern Department of Biological Sciences. In the mid-80s, he established the Pittsburgh NMR Center for Biomedical Research, a joint research and training facility for the University of Pittsburgh and Carnegie Mellon University.

Dr. Ho has coauthored more than 300 papers. He has received a number of awards and honors including the election to Academician of Academia Sinica, Fellow of the International Society of Magnetic Society (ISMAR), of the American Association for the Advancement of Science (AAAS), of the International Society of Magnetic Resonance in Medicine (ISMRM), and a recipient of a John Simon Guggenheim Fellowship, a MERIT Award of the National Heart, Lung, and Blood Institute, and a Gold Medal of the ISMRM for his contributions to the development of in-vivo cell-tracking methodology by MRI.

ELIZABETH MORRIS, PH.D.**Plenary Session 2**

Thursday, September 2 at 09:30

Talk Title: **Breast Imaging in the Era of Personalized Medicine**

Elizabeth Morris, MD is a radiologist who has dedicated her career to advance early breast cancer detection through improvements in breast imaging. She developed the Breast Magnetic Resonance Imaging (MRI) service at Memorial Sloan Kettering Cancer Center (MSKCC) where she is currently Chief of the Breast Imaging Service. Dr. Morris was educated at University of California San Francisco medical school and completed her radiology residency at Cornell Medical College and is a Fellow of the Society of Breast Imaging and Fellow of the American College of Radiology. Dr. Morris currently serves as Vice President of the Society of Breast Imaging. She is Chair of the 2nd Edition of the Breast MRI Breast and Imaging Reporting Data System (BI-RADS®). She has been Principle Investigator of several IRB protocols including: "Breast MRI Positioning, Localization and Biopsy Device," "Breast MRI using a Bilateral Sequence," "Breast MR Spectroscopy" and "Breast MRI High Risk Screening." A grant from the Susan B Komen Foundation was instrumental in allowing her to pioneer the work on Breast MRI screening and breast MRI biopsy. Along with others, Dr. Morris has found that breast MRI is exquisitely sensitive in the detection of breast cancer and allows better characterization of known cancers along with better detection of early cancer in high risk groups of women. Dr. Elizabeth Morris is considered one of the leaders in the field of breast imaging both nationally and internationally and has been an invited speaker at over 300



Continued

meetings throughout the world and has authored or co-authored over 100 papers. Her best-selling book on Breast MRI has become the standard in the field. Dr. Morris hopes that one day breast cancer can be detected early enough to be treated without radical therapies. Her future research will be in this direction.

VASILIS NTZIACHRISTOS, M.S.C., PH.D.

Plenary Session 4

2015 Gold Medal Plenary

Friday, September 4 at 09:30

Talk Title: ***The new era of Optical and Optoacoustic Imaging***

Vasilis Ntziachristos Ph.D. is a Professor and Chair for Biological Imaging at Technische Universität München and director of the Institute of Biological and Medical Imaging at Helmholtz Zentrum München, both located in Munich / Germany. Prior to this appointment he was faculty at Harvard University and the Massachusetts General Hospital. He received his masters and doctorate degrees from the Bioengineering Department of the University of Pennsylvania and the Diploma in Electrical Engineering from the Aristotle University of Thessaloniki, Greece. Professor Ntziachristos has served as chair in international meetings and councils and in the editorial boards of several scientific journals. He has received numerous awards and distinctions, including the Leibniz prize 2013 and the Erwin Schrödinger prize 2011. His main research interests involve the development of optical and opto-acoustic methodologies for probing physiological and molecular events in tissues using non-invasive methods.

**PHILLIP E. SCHERER, PH.D.**

Plenary Session 6

Saturday, September 5 at 09:30

Talk Title: ***Adipose Tissue: A Tale of Hypoxia, Angiogenesis, Fibrosis and ECM Remodeling***

Philipp Scherer is Professor and Director of the Touchstone Diabetes Center at the University of Texas Southwestern Medical Center in Dallas. Dr. Scherer received his Ph.D. degree from the University of Basel, Switzerland, followed by post-doctoral training at the Whitehead Institute at MIT in Cambridge. In 1997, he joined the faculty of the Albert Einstein College of Medicine where he was a Professor for Cell Biology and Medicine. Throughout his career, he has maintained an interest in processes related to cellular and systemic energy homeostasis. During his Ph.D., he identified several components of the mitochondrial protein import machin-



ery. While a post-doc, he identified adiponectin, one of the first secretory factors to be described that almost exclusively originate in adipose tissue and which is currently widely studied by many different research groups.

Current efforts in his laboratory are focused on the identification and physiological characterization of novel proteins that serve as potential links between the adipocyte, liver, the pancreatic beta cell and the processes of whole body energy homeostasis, inflammation, cancer and cardiovascular disease. His research team aims to identify novel targets for pharmacological intervention and to further define the role of adipose tissue as an endocrine organ.

Scherer has been on the faculty of UT Southwestern Medical Center since 2007 as a member of the Departments of Internal Medicine and Cell Biology. He holds the Gifford O. Touchstone Jr. and Randolph

G. Touchstone Distinguished Chair in Diabetes Research and is a member of the Simmons Comprehensive Cancer Center.

ZENA WERB, PH.D.,

Opening Plenary Session

Wednesday, September 2 at 15:15

Talk Title: ***Intravital imaging reveals properties of cancer progression, metastasis and response to therapy***

Dr. Zena Werb received her B.Sc. in Biochemistry from the University of Toronto, and her Ph.D. in Cell Biology from Rockefeller University, New York. After postdoctoral studies at the Strangeways Research Laboratory in Cambridge England, she was recruited to the faculty of the University of California, San Francisco, where she is currently Professor and Vice-Chair of Anatomy.



Her honors include the Charlotte Friend Award of the American Association for Cancer Research, the Alexander von Humboldt Research Award and the Colin Thomson Memorial Medal from the Association for International Cancer Research. Dr. Werb has been elected to the National Academy of Sciences, the Institute of Medicine, and the American Academy of Arts and Sciences. She has published more than 400 papers.

Dr. Werb is recognized internationally for her fundamental discoveries about the molecular and cellular bases of extracellular matrix proteolysis by matrix metalloproteinases and their roles in the normal functioning and pathogenesis of tissues. Her studies have led to new paradigms about the role of the cellular microenvironment and intercellular communication in breast development and breast cancer. Her current research uses mouse models of breast cancer and patient-derived breast cancer xenografts to study normal mammary development and its perturbation during tumor progression and metastasis.

*Continued***JON-KAR ZUBIETA, M.D., PH.D.**

Plenary Session 5

Friday, September 4 at 16:00

Talk Title: ***Endogenous Opioid Mechanisms in Major Depression: Association with Treatment Responses***

Dr. Zubieta is Phil F. Jenkins Endowed Professor, A. Alfred Taubman Senior Scholar and a Professor in the Departments of Psychiatry and Radiology, the Neurosciences Program, and Research Professor in the Molecular and Behavioral Neuroscience Institute. Faculty member at the University of Michigan since 1995, he has completed formal training in the Neurosciences, Psychiatry and Nuclear Medicine. His research focuses on the neurobiological mechanisms associated with motivational mechanisms and the regulation of stress responses utilizing functional and molecular imaging in humans. He has applied this work towards the understanding of conditions where physical and emotional stressors play a significant role, most notably the substance use disorders, pain, mood disorders and their interfaces. Dr. Zubieta has 20 years of experience in the use of in vivo functional imaging in humans with PET and fMRI for the quantification of metabolism, blood flow, anatomy, and neuroreceptor sites in human subjects. Dr. Zubieta is board certified in both Psychiatry and Nuclear Medicine. He currently serves as Associate Chair for Research in the Department of Psychiatry.



**STUDENT TRAVEL
STIPENDS**

- Lotfi Abou-Elkacem, Stanford University, School of Medicine
- Mario Amend, Eberhard Karls University of Tuebingen
- Diana Andina, Swiss Federal Institute of Technology Zurich (ETHZ)
- Alejandro Arroyo, University of Pennsylvania
- Sunitha Bachawal, Stanford University, School of Medicine
- Scott Beeman, Washington University
- Raymond Bourdeau, California Institute of Technology
- Giuseppe Carlucci, Memorial Sloan Kettering Cancer Center
- Salvador Castaneda, Eberhard Karls University of Tuebingen
- Peter Chhour, University of Pennsylvania
- Chongwei Chi, Institute of Automation, Chinese Academy of Sciences
- Michael Chiorazzo, University of Pennsylvania
- Hui-Yen Chuang, National Yang-Ming University
- Allison Cohen, H. Lee Moffitt Cancer Center & Research Institute
- James Cordova, Emory University
- mehdi damaghi, Moffitt Cancer Center
- Esther de Boer, University of Alabama at Birmingham, University Medical Center Groningen
- Christoph Denk, Vienna University of Technology
- Valentina Di Galleonardo, Memorial Sloan Kettering Cancer Center
- Alisha DSouza, Dartmouth College
- Markus Durst, Technical University of Munich
- Stephan Düwel, Technical University of Munich
- Sabrina Eilenberger, Eberhard Karls University of Tuebingen
- Tatiana Esipova, University of Pennsylvania
- Enrico Fantoni, King's College London
- Francois Fay, Icahn School of Medicine at Mount Sinai
- Kerstin Fuchs, Werner Siemens Imaging Center
- Caroline Guglielmetti, Bio-Imaging Lab
- Niels Harlaar, University Medical Center Groningen
- Stefan Harmsen, Memorial Sloan Kettering Cancer Center
- Matthew Hight, Vanderbilt University
- Xuechuan Hong, State Key Laboratory of Virology, Key Laboratory of Combinatorial Biosynthesis and Drug Discovery
- Charlotte Hoogstins, Leiden University Medical Center
- Jacob Houghton, Memorial Sloan Kettering Cancer Center
- Anna Jablonska, Johns Hopkins University School of Medicine
- Orit Jacobson Weiss, National Institute of Health
- Ziyue Karen Jiang, University of California Los Angeles
- Karina Juhl, Rigshospitalet and University of Copenhagen
- Kyung Oh Jung, Seoul National University Hospital
- Yong-il Kim, Seoul National University Hospital
- Louise Kiru, University of California Los Angeles
- Neha Koonjoo, University of Bordeaux
- Susanne Kossatz, Memorial Sloan Kettering Cancer Center
- Anna Kuhen, Eberhard Karls University of Tuebingen
- Anupama Lakshmanan, California Institute of Technology
- Jason Lamanna, Emory University, Georgia Institute of Technology
- Brian Lee, Stanford University, School of Medicine
- Yuancheng Li, Emory University
- Zhao Li, University of California Los Angeles
- Jun Li, Vanderbilt University
- Heeseung Lim, Western University
- Zhibo (Zippo) Liu, National Institute of Health
- Geoffrey Luke, The University of Texas at Austin, MD Anderson Cancer Center
- Steven Machtaler, Stanford University, School of Medicine
- Florian Maier, Eberhard Karls University of Tuebingen
- Irene Marco-Rius, University of California San Francisco
- Sam Massa, Vrije Universiteit Brussel
- Ciara McErlean, Institute of Cancer Research
- Laura Mezzanotte, Leiden University Medical Center
- Filippo Michelotti, Eberhard Karls University of Tuebingen
- Kirsi Mikkola, University of Turku
- Lindsay Moore, University of Alabama at Birmingham
- Ekaterina Morgounova, University of Minnesota
- Pratap Naha, University of Pennsylvania
- Alvaro Ordoñez, Johns Hopkins University School of Medicine
- Carlos Perez Medina, Mount Sinai, Centro de Investigación en Red de Enfermedades Respiratorias
- Marjan Rafat, Stanford University, School of Medicine
- Larissa Rizzo, RWTH Aachen University
- Stephan Rogalla, Stanford University, School of Medicine
- Francesca Rosa, IRCCS IST- San Martino
- Brenda Sacher-Gaytan, Icahn School of Medicine at Mount Sinai
- Sujith Sajja, Johns Hopkins University School of Medicine
- Beatriz Salinas Rodriguez, Memorial Sloan Kettering Cancer Center
- Christin Sander, Massachusetts General Hospital, Harvard Medical School
- Anindita Sarkar, Tata Institute of Fundamental Research
- Kazuhide Sato, National Cancer Institute
- Andreas Schmid, University of Tuebingen
- Jennifer Schmitz, Eberhard Karls University of Tuebingen
- Martin Schneider, University of Zurich
- Barbara Schörg, Eberhard Karls University of Tuebingen
- Johannes Schwenck, Eberhard Karls University of Tuebingen
- Thillai Sekar, Stanford University, School of Medicine
- Travis Shaffer, Memorial Sloan Kettering Cancer Center, Hunter College
- Adam Shuhendler, Stanford University, School of Medicine
- Sanhita Sinharay, University of Arizona
- Adrian Slusarczyk, MIT
- Elliott SoRelle, Stanford University, School of Medicine
- Jun Tang, Memorial Sloan Kettering Cancer Center
- Richard Tavaré, University of California Los Angeles
- André Thielcke, Eberhard Karls University of Tuebingen
- Tsang-Wei Tu, National Institute of Health
- Elizabeth Tucker, Johns Hopkins University School of Medicine
- Silvan Tuerkcan, Stanford University, School of Medicine
- Quirijn Tummers, Leiden University Medical Center
- Greetje Vande Velde, KU Leuven
- Huaijun Wang, Stanford University, School of Medicine
- Yu Wang, University of Washington
- Timothy Whitney, Stanford University, School of Medicine
- Lei Xing, Stanford University, School of Medicine
- Yanping Yang, Beijing Normal University
- Shaobo Yao, Peking Union Medical College Hospital, Chinese Academy of Medical Science, Peking Union Medical College

Continued

Misun Yun, Chonnam National University Hwasun Hospital
 Rongxiao Zhang, Dartmouth College
 Jingjing Zhang, Peking Union Medical College Hospital (PUMCH), National Institutes of Health
 Yiming Zhao, Icahn School of Medicine at Mount Sinai
 Heling Zhou, UT Southwestern Medical Center

POSTER AWARD FINALISTS

Peter Barker, Johns Hopkins University School of Medicine
 Rabee Cheheltani, University of Pennsylvania
 Chongwei Chi, Institute of Automation, Chinese Academy of Sciences
 Taemoon Chung, Seoul National University Hospital ; Cancer Research Institute
 James Cordova, Emory University
 Mehdi Damaghi, Moffitt Cancer Center
 Binh Duong, Gunma University
 Prateek Katiyar, Werner Siemens Imaging Center, Eberhard Karls University of Tuebingen
 Yong-il Kim, Seoul National University Hospital
 Hakjae Lee, Korea University
 Orly Liba, Stanford University School of Medicine
 Lindsay Moore, University of Alabama at Birmingham
 Juri Na, Seoul National University; Cancer Research Center
 Joanna Napp, MPI for Experimental Medicine; University Medical Center Göttingen
 Francesca Rosa, IRCCS IST- San Martino
 Sujith Sajja, Johns Hopkins University School of Medicine; Institute for Cell Engineering
 Kazuhide Sato, National Cancer Institute
 Jennifer Schmitz, Eberhard Karls University Tuebingen
 Thillai Sekar, Stanford University School of Medicine
 Travis Shaffer, Memorial Sloan Kettering Cancer Center; Hunter College
 Elliott SoRelle, Stanford University School of Medicine
 André Thielcke, Eberhard Karls University of Tuebingen
 Greetje Vande Velde, KU Leuven
 Greetje Vande Velde, KU Leuven
 Joon-Kee Yoon, Ajou University Medical School

WOMEN IN MOLECULAR IMAGING NETWORK (WIMIN) SCHOLAR AWARD

Hui-Yen Chuang, National Yang-Ming University
 Yang Du, Institute of Automation
 Tatiana Esipova, University of Pennsylvania
 Lindsay Moore, University of Alabama at Birmingham
 Joanna Napp, MPI for Experimental Medicine; University Medical Center Göttingen
 Marjan Rafat, Stanford University School of Medicine
 Brenda Sachez-Gaytan, Icahn School of Medicine at Mount Sinai
 Christin Sander, Massachusetts General Hospital; Harvard Medical School
 Greetje Vande Velde, KU Leuven
 Jingjing Zhang, Peking Union Medical College Hospital (PUMCH); National Institutes of Health

ACS - BIOCONJUGATE CHEMISTRY AWARD

Hanwen Zhang, Memorial Sloan Kettering Cancer Center
 Karolina Jankowska, The University of Sydney

EDUCATIONAL OBJECTIVES

Upon completion of this program participants should be able to:

1. Evaluate the strength and weakness of each major imaging modality for Molecular Imaging, and identify novel hybrid imaging techniques in the field.
2. Recognize common principles behind Molecular Imaging probes for each individual imaging modality, as well as the potential of multi-modality probes.
3. Recognize the potential of Molecular Imaging for depicting and following specific molecular and cellular processes in vivo.
4. Evaluate the potential, strengths and weaknesses of Molecular Imaging for specific organs and major diseases.
5. Describe the principles of Molecular Imaging techniques for guiding and assessing therapeutic interventions, including drug development and therapy.
6. Recognize the potential, strengths and weaknesses of specific Molecular Imaging for preclinical, clinical, and translational research.

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 Basilion, James: Akrotome Imaging^{4,2}; Lightpoint Medical²
 Bates, Jennifer: CellSight Technologies⁵
 Belcari, Nicola: Inviscan s.a.s.¹; raytest Isotopenmessgeräte GmbH¹
 Bettinger, Thierry: Bracco Suisse SA⁵
 Black, Keith L.: Arrogene⁴
 Boulis, Nicholas M.: MRI Interventions²; Neuralstem, Inc.^{2,7}
 Bradley, Mark: Edinburgh Molecular Imaging^{4,2}
 Brigman, Brian E.: Musculoskeletal Transplant Foundation¹; Plexicon²
 Bruckbauer, Thomas: Bruker BioSpin Corporation⁵
 Cabella, Claudia: Bracco Imaging SpA⁵
 CAILLER, Françoise: SurgiMab^{4,5}
 Chandra, Sudeep: Novartis⁵
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 Chow, Patrick L.: Bristol-Myers Squibb Company^{5,4}
 Cirillo, Jeffrey: GBDbio^{4,2,1}
 Collins, James W.: PerkinElmer⁷
 Colombo Serra, Sonia: Bracco Imaging SpA⁵
 Coolens, Catherine: Modus Medical Inc²; Shelley Medical Inc²
 Correcher Salvador, Carlos: Oncovision⁵
 Costa, Maria: Bracco Suisse SA⁵
 Del Guerra, Alberto: Inviscan SAS¹; raytest Isotopenmessgeraete GmbH¹
 Draney, Daniel: LI-COR Biosciences⁵
 Feldwisch, Joachim: Affibody AB^{5,4}
 Ferrer, Jorge: Lumicell, Inc.^{5,4}
 FitzGerald, Paul: General Electric Company⁵
 Fresneau, Thomas: Bracco Suisse S.A.⁵
 Frinking, Peter J.: Bracco Suisse SA⁵
 Gale, Andrew J.: Avelas Biosciences²; Hematherix LLC⁵
 Gambhir, Sanjiv S.: Bracco²; Cellsight⁴; Endra⁴; GammaMedica²; Google²; ImaginAb⁴; Sanofi-Aventis¹; VisualSonics/Sonosite²
 Gaud, Emmanuel: Bracco Suisse SA⁵
 Giger, Maryellen: Hologic⁴; Quantitative Insights⁴; QView⁴
 Glaus, Charles: Amgen, Inc.^{5,4}
 Granlund, Kristin L.: GE Healthcare¹
 GUTOWSKI, Marian: SurgiMAB⁴
 Henrioud, Sylvie: BRACCO Suisse S.A.⁵
 Holler, Eggehard: Arrogene Inc.¹; NIH R01¹
 Hunter, William C.: PET/X LLC⁵
 Hyvelin, Jean-Marc: Bracco Suisse SA, part of Bracco Group⁵
 Jensen, Pernille R.: Albeda Research⁴
 Junge, Sven: Bruker BioSpin MRI⁵
 Karlsson, Magnus: Albeda Research⁴
 Kiessling, Fabian: Bayer¹; Bracco¹; invivoContrast.com²; Molecular Targeting.inc²; Philips¹; Visualsonics¹
 Kirsch, David: Lumicell^{4,1,2}
 Kneip, Christoph: Bayer Pharma AG⁵
 Koglin, Norman: Piramal Imaging⁵
 Korpisalo, Petra: Fujifilm Visual Sonics Inc⁷
 Lankes, Konrad: Bruker BioSpin MRI GmbH⁵
 Larson, Peder E.: GE Healthcare¹
 Lerche, Mathilde H.: Albeda Research¹
 Low, Philip S.: Endocyte Inc⁴; On Target Laboratories⁴
 MacKenzie, John D.: General Electric Healthcare¹
 Maidment, Andrew D.: Barco, Inc.¹; Gamma Medica, Inc.²; Hologic, Inc.¹; Real-Time Tomography, LLC^{2,4}
 Maisano, Federico: Bracco Imaging⁵
 Marino, Michael: General Electric⁵
 McCarthy, Timothy J.: Pfizer, Inc.⁵
 Miller, Dennis: Blaze Bioscience^{1,4,5}; CPTxBio²
 Misra, Sanjay: FLEXSTENT⁷; NIH¹
 Miyaoka, Robert: General Electric Healthcare¹; PETX LLC¹; Philips Healthcare¹
 Molinos Solsona, Cesar: Oncovision⁵
 Mudd, Sarah R.: Abbvie⁵
 Napel, Sandy: Carestream, Inc.²; Echo Pixel, Inc.²; Fovia, Inc.²
 Ntziachristos, Vasilis: iThera Medical GmbH⁴; SurgiVision B.V.⁴
 O'Reilly, Erin: Lumicell Diagnostics, Inc.²
 Paulsen, Keith: Carl Zeiss, Inc.¹; DUSA Pharmaceuticals, Inc.¹; Medtronic¹
 PELEGRIN, André: SurgiMAB^{2,4}
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 Radu, Caius: Sofie Biosciences⁴; Triangle Therapeutics⁴
 Rijcken, Cristianne: Cristal Therapeutics^{5,4}
 Rindi, Guido: AAA²; Bracco Imaging²; IPSEN Pharma³; NOVARTIS Pharma³
 Rosen, Bruce R.: Siemens²
 Scholz, Wolfgang W.: MabVax Therapeutics⁵
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FDA DEVICE / DRUG USE DECLARATION

If a device or drug requiring FDA approval is identified as an important part of a presentation, speakers must identify the FDA status of those devices or drugs. The following speakers have declared that their presentation includes such devices or drugs.

Speaker Name	Drug/Device	Status
Raag Airan	[18F]-DCFPy	Investigational
	YC27	Investigational
	Definity	Approved
	Magnevist	Approved
	CMV::Luciferase plasmid	Not Approved
Karen Ayres	PBAE formulation 447	Investigational
	in vivo-jetPEI	Investigational
Luca Basso	18F-FES	Investigational
Frederik Beekman	Manganese Chloride	Investigational
Luke Benko	G-SPECT	Not Approved
Abigail Besemer	Aperio Versa	Investigational
Leonora Boogerd	CLR1404	Investigational
Kim Brewer	indocyanine green	Approved
	FLARE imaging system	Investigational
Françoise Cailler	DepoVax	Investigational
Feng Cao	SGM-101	Investigational
Sean Carlin	Xenogen In Vivo Imaging System	Approved
Chongwei Chi	cediranib (Recentin)	Investigational
	18F-fluoromisonidazole	Investigational
Patrick Chow	Indocyanine green	Approved
	Surgical Navigation System	Not Approved
Diego Cobice	nivolumab	Approved
	89Zr-nivolumab	Investigational
Thomas Collier	UE2316	Investigational
James Cordova	T807	Investigational
	FPEB	Investigational
	FMISO	Investigational
Yunpeng Dai	Glolan	Investigational
David Dick	Cy5.5-GX1	Investigational
	IVIS Lumia II	Approved
Ahmed El Kaffas	F-18 Fluoro-L-DOPA	Investigational
Maria Elisa Serrano Navacerrada	Definity Agent (Off label use)	Investigational
Ralf Eschbach	[18F]FDOPA	Approved
Joachim Feldwisch	BR55 (Bracco Suisse SA, Geneva, Switzerland)	Investigational
Marcus Ferrone	ABY-025	Not Approved
	ABY-029	Not Approved
	Hyperpolarized C-13 pyruvate	Investigational
	SpinLab	Investigational

Speaker Name	Drug/Device	Status
Benedikt Feurecker	13C Pyruvate	Investigational
	Dichloroacetate	Not Approved
Peter Frinking	BR55	Investigational
	Image processing method (Vue-Box-MI)	Not Approved
Charles Glaus	P-selectin microbubbles	Not Approved
Andrew Gordon	Talimogene laherparepvec	Investigational
Kristin Granlund	TheraSphere (HDE, yttrium-90 glass microspheres)	Approved
	Hyperpolarized pyruvate	Investigational
	1H/13C Endorectal RF coil	Investigational
	13C clamshell RF coil	Investigational
Hein Handgraaf	cRGD-ZW800-1	Investigational
	FLARE Intraoperative Near-Infrared Fluorescence Imaging System	Investigational
Niels Harlaar	bevacizumab-IRDye800CW	Not Approved
Paul Harris	18F-FP-DTBZ	Investigational
Sanna Hellberg	68Ga-DOTANOC	Investigational
Chien Ho	Intralipid	Approved
	Dichloro (1,2-diaminocyclohexane) platinum (II)-loaded and hyaluronic acid polymer-coated nanoparticle	Not Approved
Charlotte Hoogstins	OTL38	Investigational
Andrei Iagaru	Artemis Imaging System	Investigational
Michelle James	Ga68 RM2	Investigational
Justin Jeffery	[64Cu]Rituximab (radiotracer has IND approval)	Investigational
Roger Kaspar	NM404	Investigational
	NM346	Investigational
	NM397	Investigational
Sai Kiran Sharma	TD201 topical sirolimus formulation	Investigational
	Dissolvable microneedle arrays	Investigational
	TD101 siRNA	Investigational
	MAB-B43.13	Investigational

Speaker Name	Drug/Device	Status
Shun Kishimoto	LED light	IRDye 700DX NHS ester
	IRDye 700DX NHS ester	Investigational
	OX63, GE Healthcare	Investigational
	EPR scanner	Investigational
Alexander Klivanov	gas-filled microbubbles	Not Approved
Ronald Korn	89Zr-Df-IAB2M	Investigational
	111In capromab pendetide	Approved
Jeyan Kumar	Magnevist	Approved
John Kurhanewicz	Hyperpolarized [1-13C] pyruvate	Investigational
Sandi Kwee	fluorine-18 fluoromethylcholine	Investigational
Jason Lamanna	Ferumoxytol (Feraheme)	Approved
	Spine-Mounted Injection Device	Investigational
	Floating Cannula	Investigational
	MRI-Compatible Injection Device	Not Approved
	MRI Inc. ClearPoint	Approved
David Lewis	AMD3100	Approved
Ai-ho Liao	MINOXIDIL	Approved
Chia-Ying Lien	doxorubicin	Approved
Qian Liu	17β-estradiol	Approved
	18F-Fallypride	Approved
Dennis Miller	BLZ-100	Investigational
	Fluobeam 800	Investigational
	SIRIS	Investigational
	Odyssey	Investigational
Erik Mittra	18F-FSPG	Investigational
Sarah Mudd	ABT-806i	Investigational
	ABT-414	Investigational
	NAMPT1	Investigational
	NAMPT2	Investigational
Jogeshwar Mukherjee	18F-Nifene	Investigational
Binh Nguyen	EC1169	Investigational
	EC0652	Investigational
Muhammad Nouman	cisplatin	Approved
	gamma camera	Approved
	99mTc-DTPA	Approved
Erin O'Reilly	LUM015	Investigational
Nisha Padhye	RM-1929	Investigational
	AU011	Investigational
Rao Papineni	Alendronate	Approved
Kah-Whye Peng	Measles virus encoding NIS	Investigational
Sarah Poenick	peptide probe CG77	Investigational
	unspecific probe CG80	Investigational
	Pearl® Impulse Small Animal	Investigational
	Imaging System	Investigational

Speaker Name	Drug/Device	Status
Thomas Poeschinger	erlotinib	Approved
	perifosine	Approved
Katerina Politi	AZD9291	Investigational
	CO1686	Investigational
Eric Price	Rilotumumab	Investigational
Tarl Prow	Foroderm	Investigational
	Sodium Fluorescein	Approved
Francesca Rosa	MANGANESE	Investigational Approved
	clinical 3T MR system (Signa EXCITE@HDxT, GE, Milwaukee, USA).	
Nicolas Salem	Ubiquitin activating enzyme inhibitor (UAEi)	Investigational
Julia Schmitt	NHS-IL12	Investigational
Martin Schneider	iRFP	Investigational
	DMOG	Investigational
Eva Sevick-Muraca	Indocyanine Green	Investigational Approved Investigational
	Flexitouch	
	Near-infrared fluorescence lymphatic imaging device	
Catherine Shachaf	MDS	Investigational
Adam Shuhendler	BMN673 (Talazoparib)	Investigational
Jaeyung Song	DOXORUBICIN HYDROCHLORIDE	Approved
Mia Stähle	PET tracer 68Ga-NODAGA-Exendin-4	Investigational
Kayo Takahashi	11C-raclopride	Approved
Jolien Tjalma	Bevacizumab-IRDye800CW	Not Approved
Rheal Towner	OKN-007	Investigational
Quirijn Tummers	EC17	Investigational Investigational
	Artemis Imaging System	
Greetje Vande Velde	amphotericin-B	Approved Approved Approved Approved Approved Approved
	fluconazole	
	anidulafungin	
	micafungin	
	caspofungin	
	imatinib	
David Vera	Tilmanocept	Approved
Douglass Vines	18F-FAZA	Investigational
Ronald Walker	68Ga-DOTATATE	Investigational
Jason Warram	cetuximab-IRDye800	Investigational Approved
	Luna	
Wolfgang Weber	FDG	Not Approved Not Approved
	iodide	
Hans-Juergen Wester	Pentixafor	Not Approved Not Approved
	Pentixather	



Speaker Name	Drug/Device	Status
Juergen Willmann	BR55	Investigational
Sergio Wong	Feraheme Poly-L-Lysine	Approved Approved
Anna Wu	PSCA minibody IAB2M PSCA minibody	Investigational Investigational
Xiaobing Xiong	Magnevist MRI HIFU	Approved Approved Investigational
Shahriar Yaghoubi	[18F]F-AraG	Investigational
Miko Yamada	BLZ-100	Approved
Jaewon Yang	GE Signa PET/MR	Approved
Chen Yao	Huaier	Not Approved
Luke Yongkyu Kwon	Trastuzumab (Herceptin)	Approved
Saeid Zanganeh	Feraheme®, AMAG Pharmaceuti- cals Inc., Cambridge, MA, USA	Approved
Jianhua Zhou	Bevacizumab Philips EPIQ 7	Approved Approved
Filip Zmuda	Olaparib [18F]-FZ236 [123I]-FZ044	Approved Not Approved Not Approved

Wednesday September 2

Room	311	312	313 A/B/C	314	315	320 (Emalani Theatre)
	OSN Workshop	Early Career Track	Hot Topic Track 1	Hot Topic Track 2		Pharma Track
08:00 - 08:30	Basic Research 1: New Probes	Educational Overview: John Frangioni (Kalakaua Ballroom B&C)				
08:30 - 08:45		Break				
08:45 - 10:15	OSN Break	Educational Session 1: Standards for Molecular Research	Educational Session 2: Molecular Imaging in Precision Medicine	Educational Session 3: Optogenetics		Educational Session 4: Pharma 1
10:15 - 10:45	Basic Research 2: New Probes	Coffee Break				
10:45 - 12:15	OSN Working Lunch	Educational Session 5: Target Identification, Chemistry & Preclinical Studies Design	Educational Session 6: Inflammation (Neurology)	Educational Session 7: Point-of-Care Pathology		Educational Session 8: Pharma 2
12:15 - 13:15	IND Successes and Pitfalls	Lunch Break in Concourse				
13:15 - 14:45	Panel: Devices for Surgical Imaging - what is needed?	Educational Session 9: Career Development - Manuscript Writing	Educational Session 10: Inflammation (Cancer)	Educational Session 11: Radiomics		Educational Session 12: Pharma 3
14:45 - 15:15		Break				
15:15 - 16:15	Opening Ceremony, Presidential Address (Kalakaua Ballroom B&C)					
16:15 - 17:15	Plenary Session 1: Zena Werb - Sponsored by WIMIN-IG (Kalakaua Ballroom B&C)					
17:15 - 17:45	Opening Reception (Exhibit Hall 2 & 3)					
17:45 - 18:45	Poster Session 1 & Poster Wall Presentation (Exhibit Hall 2 & 3)					
18:45 - 20:00	Opening Reception cont'd (Exhibit Hall 2 & 3)					

Thursday September 3

Room	311	312	313 A/B/C	314	315	320 (Emalani Theatre)	319A
08:00 - 09:30	Industry Workshop: Mediso	Spotlight Session 1: Early Career - Young Professionals in Molecular Imaging	Spotlight Session 2: Infectious Disease	Spotlight Session 3: Women's Imaging	Spotlight Session 4: Co-Clinical Trials - Data Analysis	MOMIL Symposium: Role of Industry and Academics in Advancing Molecular Imaging Research	
09:30 - 10:30	Plenary Session 2: Elizabeth Morris (Kalakaua Ballroom B&C)						
10:30 - 11:15	Coffee Break, Visit Exhibits & Industry Selected Posters						
11:15 - 12:45	Scientific Session 1: First-in-Human & Clinical Studies: Oncology	Scientific Session 2: Chemistry & Imaging Probes - Optical/Photo-Acoustic Imaging	Scientific Session 3: Preclinical in vivo Studies - Oncology: Multimodal	Scientific Session 4: Chemistry & Imaging Probes - MRI	Scientific Session 5: Chemistry & Imaging Probes - Nuclear Imaging	Late-breaking Abstract Session 1	
12:45 - 13:45	Lunch Break in Exhibit Hall (Sponsored by Aspect Imaging)						WIMIN Membership Meeting
13:45 - 15:15	Scientific Session 6: Technology & Software Developments - Optical/Photo-Acoustic Imaging	Scientific Session 7: Chemistry & Imaging Probes - Multimodal	Scientific Session 8: Preclinical in vivo Studies - Oncology: MRI/Ultrasound	Scientific Session 9: Preclinical in vivo Studies - Inflammation/Immunology	Scientific Session 10: Preclinical in vivo Studies - Neurology	Late-breaking Abstract Session 2	
15:15 - 16:00	Coffee Break & Visit Exhibits						
16:00 - 17:00	Plenary Session 3: Chien Ho (Kalakaua Ballroom B&C)						
17:00 - 18:00	Poster Session 2: Late Breaking Abstract Posters, Poster Award Judging (Exhibit Hall 2 & 3)						

Friday September 4

Room	311	312	313 A/B/C	314	315
08:00 - 09:30	Industry Workshop: PerkinElmer	Spotlight Session 5: Translational Frontiers in Ultrasound Imaging & Therapy	Spotlight Session 6: Molecular Imaging Based Companion Diagnostics	Spotlight Session 7: Men's Health	Spotlight Session 8: Animal Model Systems for Co-Clinical Trials
09:30 - 10:30	Plenary Session 4: Gold Medalist-Vasilis Ntziachristos (Kalakaua Ballroom B&C)				
10:30 - 11:15	Coffee Break, Visit Exhibits & Innovation of the Year Presentation/Voting/Award				
11:15 - 12:45	Scientific Session 11: First-in-Human & Clinical Studies	Scientific Session 12: Chemistry & Imaging Probes - Optical Imaging	Scientific Session 13: Preclinical in vivo Studies - Oncology: Optical	Scientific Session 14: Preclinical in vivo Studies - Cardiology	Scientific Session 15: Chemistry & Imaging Probes - Nuclear Imaging
12:45 - 13:45	Lunch Break in Exhibit Hall (Sponsored by Aspect Imaging)				
13:45 - 15:15	Scientific Session 16: Technology & Software Developments - Hybrid Multitmodal/Ultrasound/CT	Scientific Session 17: Chemistry & Imaging Probes - Ultrasound	Scientific Session 18: Preclinical in vivo Studies - Oncology: Nuclear	Scientific Session 19: Preclinical in vivo Studies - Infectious Disease/Reporter Genes, Signal Transduction & Epigenetics	Scientific Session 20: Preclinical in vivo Studies - Metabolic Diseases
15:15 - 16:00	Coffee Break & Visit Exhibits				
16:00 - 17:00	Plenary Session 5: Jon-Kar Zubieta (Kalakaua Ballroom B&C)				
17:00 - 18:30	Fellow's Forum Panel				
18:30 - 19:30	Poster Session 3 & Fellows Meet & Greet Reception (Exhibit Hall 2 & 3)				

Saturday September 5

Room	311	312	313 A/B/C	314	315	320 (Emalani Theatre)
08:00 - 09:30	Spotlight Session 9: Metabolic Reprogramming - Implications for Cancer Imaging and Therapy	Spotlight Session 10: Oncogenetic Tumor Heterogeneity Translated to Imaging: Radiomics and Radiogenomics	Spotlight Session 11: Translational Imaging & Drug Discovery			
09:30 - 10:30	Plenary Session 6: Philipp Scherer (Kalakaua Ballroom B&C)					
10:30 - 11:15	Coffee Break & Visit Exhibits					
11:15 - 12:45	Scientific Session 21: First-in-Human & Clinical Studies	Scientific Session 22: Technology & Software Developments - MRI/PET/SPECT	Scientific Session 23: Preclinical Cell & Tissue Level Studies - Oncology	Scientific Session 24: Chemistry & Imaging Probes - MRI/CT	Scientific Session 25: Chemistry & Imaging Probes - Nuclear Imaging	Scientific Session 26: Preclinical in vivo Studies - Oncology: Many Modalities
12:45 - 13:45	Lunch Break & Visit Exhibits					
13:45 - 14:45	Poster Session 4 & Poster Wall Presentation(Exhibit Hall 2 & 3)					
14:45 - 15:00	Break					
15:00 - 17:00	Closing Ceremony, YIA Award & Highlight Lecture by John Gore (Kalakaua Ballroom B&C)					
17:30 - 22:00	Gala Event 17:30 - 22:00 - Island Luau Under the Stars					

Wednesday September 2

Room	311	312	313 A/B/C	314	315	320 (Emalani Theatre)
	OSN Workshop	Early Career Track	Hot Topic Track 1	Hot Topic Track 2		Pharma Track
08:00 - 08:30	Basic Research 1: New Probes	Educational Overview: John Frangioni (Kalakaua Ballroom B&C)				
08:30 - 08:45		Break				
08:45 - 10:15		OSN Break	Educational Session 1: Standards for Molecular Research	Educational Session 2: Molecular Imaging in Precision Medicine	Educational Session 3: Optogenetics	
10:15 - 10:45	Basic Research 2: New Probes	Coffee Break				
10:45 - 12:15	OSN Working Lunch	Educational Session 5: Target Identification, Chemistry & Preclinical Studies Design	Educational Session 6: Inflammation (Neurology)	Educational Session 7: Point-of-Care Pathology		Educational Session 8: Pharma 2
12:15 - 13:15	IND Successes and Pitfalls	Lunch Break in Concourse				
13:15 - 14:45	Panel: Devices for Surgical Imaging - what is needed?	Educational Session 9: Career Development - Manuscript Writing	Educational Session 10: Inflammation (Cancer)	Educational Session 11: Radiomics		Educational Session 12: Pharma 3
14:45 - 15:15		Break				
15:15 - 16:15	Opening Ceremony, Presidential Address (Kalakaua Ballroom B&C)					
16:15 - 17:15	Plenary Session 1: Zena Werb - Sponsored by WIMIN-IG (Kalakaua Ballroom B&C)					
17:15 - 17:45	Opening Reception (Exhibit Hall 2 & 3)					
17:45 - 18:45	Poster Session 1 & Poster Wall Presentation (Exhibit Hall 2 & 3)					
18:45 - 20:00	Opening Reception cont'd (Exhibit Hall 2 & 3)					

Wednesday September 2 (continued)

FFOptical Surgical Navigation Workshop

08:00-09:30 OSN - Basic Research 1: New Probes (Room 311)
Moderator: James Basilion

- 08:00 OSN 1: Introduction**
James Basilion Radiology and Biomedical Engineering, Case Western Reserve University, Cleveland, Ohio, USA (2350868)
- 08:05 OSN 2: Rationally designed activatable fluorescent probes appropriate for practically assisting surgical and interventional and procedures**
Hisataka Kobayashi Molecular Imaging Program, NCI/NIH, Bethesda, Maryland, USA (2308717)
- 08:35 OSN 3: Clinically translatable cathepsin imaging agents that exploit a latent lysosomotropic effect**
Matthew Bogoy Stanford University, Stanford, California, USA (2350865)
- 09:00 OSN 4: Analyzing targeted fluorescent tracers in vivo: Affibody-IRDye being developed for human neurosurgery**
Brian W. Pogue¹, Keith Paulsen¹, Jonathan T. Elliott¹, Ana Luiza Ribeiro de Souza¹, David W. Roberts², Theresa Strong⁵, Daniel Draney⁴, Joachim Feldwisch³
¹Engineering, Dartmouth College, Hanover, New Hampshire, USA; ²Geisel School of Medicine, Dartmouth College, Hanover, New Hampshire, USA; ³Affibody AB, Stockholm, Sweden; ⁴LI-COR Biosciences, Lincoln, Nebraska, USA; ⁵University of Alabama Birmingham, Birmingham, Alabama, USA (2342964)

09:30 OSN Coffee Break (Room 311)

10:00-11:30 OSN - Basic Research 2: New Probes (Room 311)
Moderator: Michael Tweedle

- 10:00 OSN 5: Near-Infrared Phospholipid Ethers for Broad Spectrum Optically Guided Tumor Resection**
Jamey Weichert Radiology, University of Wisconsin, Madison, Wisconsin, USA (2350864)
- 10:30 OSN 6: Engineered antibodies for optical imaging**
Anna M. Wu Molecular and Medical Pharmacology, David Geffen School of Medicine at UCLA, Los Angeles, California, USA (2311105)
- 11:00 OSN 7: Optical surgical navigation with fluorescence molecular imaging: the critical role of imaging device sensitivity and imaging agent specificity**
Barrett R. Harvey¹, Banghe Zhu¹, Maritoni Litorja², Eva M. Sevick-Muraca¹ ¹Center for Molecular Imaging, University of Texas Health Science Center, Houston, Texas, USA; ²NIST, Gaithersburg, Maryland, USA (2325342)

11:30-12:00 OSN Working Lunch (Room 311)

12:00-13:30 OSN - IND Successes and Pitfalls (Room 311)
Moderator: Eben Rosenthal

- 12:00 OSN 8: Regulatory Strategy for LUM015, a Fluorescent Imaging Probe Intended for Single-Dose Administration: Path to a Phase I Human Study**
Erin O'Reilly¹, Jorge Ferrer², Melodi Whitley³, David Kirsch³, Brian E. Brigman⁴ ¹Duke Translational Medicine Institute, Regulatory Affairs, Duke University Medical Center, Durham, North Carolina, USA; ²Lumicell, Inc, Wellesley, Massachusetts, USA; ³Department of Pharmacology and Cancer Biology, Duke University Medical Center, Durham, North Carolina, USA; ⁴Department of Orthopaedic Surgery, Duke University Medical Center, Durham, North Carolina, USA (2343170)

12:20 OSN 9: The twists and turns of developing a knottin peptide -dye conjugate for intra-operative tumor imaging: Initiating clinical development of BLZ-100
Dennis Miller Development, Blaze Bioscience Inc, Seattle, Washington, USA (2308466)

12:40 OSN 10: Discussion
Discussion
Paula Jacobs
Dennis Miller
Erin O'Reilly
Jamey Weichert
Kurt Zinn

13:30-15:00 OSN Panel: Devices for Surgical Imaging - what is needed? (Room 311)
Moderator: Eben Rosenthal
John Frangioni
Jonathan Liu
Jonathan Sorger
Vasilis Ntziachristos

Educational Sessions

08:00-08:30 Educational Overview by John Frangioni (Room KALAKAUA BALLROOM B&C)
Moderator: John Frangioni

08:30-08:45 Break (KAMEHAMEHA EXHIBIT HALL 2 & 3)

Educational Session 01

08:45-10:15 Standards for Molecular Research (Room 312)
Moderators: Ali Azhdarinia

08:45 ES 1: Control probes and control experiments in molecular imaging

Martin Lepage Université de Sherbrooke, Centre d'imagerie moléculaire de Sherbrooke, Sherbrooke, Quebec, Canada (2312223)

09:15 ES 2: Standardized trial design for clinical molecular imaging

Wolfgang Weber Radiology, MSKCC, New York, New York, USA (2343443)

09:45 ES 3: NCI: New and Current Imaging Initiatives that Support Precision Medicine

Laurence P. Clarke, Paula M. Jacobs National Institutes of Health - National Cancer Institute, Rockville, Maryland, USA (2343601)

Educational Session 02**08:45-10:15 Molecular Imaging in Precision Medicine (Room 313 A/B/C)**

Moderators: Thomas Poeschinger

08:45 ES 4: The Use of Imaging by Biotech/Pharma: From Mouse to Human

Joan Greve Biomedical Engineering, University of Michigan, Ann Arbor, Michigan, USA (2339618)

09:15 ES 5: Implementing Biomarkers from Preclinical to Pivotal Trials

Patricia Carrigan¹, Christoph Kneip² ¹Translational Assay Technology, Bayer Pharma AG, Müllerstr. 178, D-13342 Berlin, Germany; ²Translational Assay technologies, Bayer Pharma AG, Berlin, Germany (2343800)

09:45 ES 6: Ligand-targeted imaging agents for cancer, autoimmune and infectious diseases

Philip S. Low Chemistry, Purdue University, West Lafayette, Indiana, USA (2343281)

Educational Session 03**08:45-10:15 Optogenetics (Room 314)**

Moderators: Christopher Contag and Julien Dimastromatteo

08:45 ES 7: Michael Lin**09:15 ES 8: Optogenetic Control of Cell Signaling in Mammalian Cells**

Won Do Heo Department of Biological Sciences, Korea Advanced Institute for Science and Technology (KAIST), Yuseong-gu, Korea (the Republic of) (2343506)

09:45 ES 9: How to control biology using multiple colors of light: Analogies to multi-color imaging

Yongku Cho Chemical and Biomolecular Engineering, University of Connecticut, Storrs, Connecticut, USA (2320561)

Educational Session 04**08:45-10:15 Pharma 1 (Room 320 (EMALANI THEATRE))**

Moderators: Sarah Mudd and Daniel Bradley

08:45 ES 10: Process workflows for the development and analysis of large molecule preclinical PET imaging probes: design, characterization, and application

Charles Glaus Research Imaging Sciences, Amgen, Inc., Thousand Oaks, California, USA (2345998)

09:15 ES 11: Preclinical Imaging Workflow and Case Studies in Drug Development

Patrick L. Chow Imaging, Bristol-Myers Squibb Company, Princeton, New Jersey, USA (2314268)

09:45 ES 12: Jacob Hesterman

10:15-10:45 Break (KAMEHAMEHA EXHIBIT HALL 2 & 3)

Educational Session 05**10:45-12:15 Target Identification, Chemistry & Preclinical Studies Design (Room 312)**

Moderators: Twan Lammers and Brian Zeglis

10:45 ES 13:

Lindsey Brinton
Siva Dasa

11:15 ES 15: Radiometal-labeled biomolecules for PET imaging of disease: Making informed choices on radionuclides and chelators

Carolyn J. Anderson Radiology, University of Pittsburgh, Pittsburgh, Pennsylvania, USA (2342969)

11:45 ES 16: Preclinical Imaging To Evaluate Treatment Response and Toxicity

Adam Shuhendler Chemistry and Biomolecular Sciences, University of Ottawa, Ottawa, Ontario, Canada (2343025)

Educational Session 06**10:45-12:15 Inflammation (NEUROLOGY) (Room 313 A/B/C)**

Moderators: Inga Fricke

10:45 ES 17: PET imaging of neuroinflammation: concepts and developments

Bastian Zinnhardt¹, Inga B. Fricke¹, Andreas H. Jacobs¹
¹European Institute for Molecular Imaging, WWU Münster, Münster, Germany; ²Department of Geriatric Medicine, Evangelische Kliniken Bonn, Bonn, Germany (2343582)

Wednesday September 2 (continued)

11:15 ES 18: Preclinical Imaging of Neuroinflammation
Aisling Chaney Medicine, University of Manchester,
Manchester, United Kingdom (2343171)

11:45 ES 19: Current State of Clinical Imaging for Neuroinflammation
Bin Ji Molecular Imaging Center, National Institute of
Radiological Sciences, Chiba, Japan (2327256)

Educational Session 07

10:45-12:15 Point-of-Care Pathology (ROOM 314)
Moderators: Anna Moore and Lindsey Brinton

10:45 ES 20: Kengyeh Chu

11:15 ES 21: Dynamic Contrast Enhanced Flow Imaging: From Quantification to Validation
Catherine Coolens¹ ¹Radiation Medicine Program,
Princess Margaret Cancer Centre, Toronto, Ontario,
Canada; ²Department of Radiation Oncology, University
of Toronto, Toronto, Ontario, Canada; ³Joint Department
of Medical Imaging, University of Toronto, Toronto,
Ontario, Canada (2343640)

11:45 ES 22: Use of non-invasive intravital confocal imaging, including fluorescence, as a modality for preclinical evaluation of functional skin delivery of potential therapeutics and clinical endpoints
Roger L. Kaspar TransDerm, Santa Cruz, California, USA
(2343630)

Educational Session 08

10:45-12:15 Pharma 2 (ROOM 320 (EMALANI THEATRE))
Moderators: Scott Haller and Patrick McConville

10:45 ES 23: Shil Patel

11:15 ES 24: Paul McCracken

11:45 ES 25: Daniel Bradley

12:15-13:15 Lunch Break (KAMEHAMEHA EXHIBIT HALL 2 & 3)

Educational Session 09

13:15-14:45 Career Development - Manuscript Writing (ROOM 312)
Moderators: Jason Lewis and Thomas Reiner

13:15 ES 26: How to write a paper
Julie Sutcliffe University of California Davis,
Sacramento, California, USA (2342978)

13:45 ES 27: How to Review a Paper
Jason S. Lewis Radiology, MSKCC, New York, New York,
USA (2343491)

14:15 ES 28:
Dominique Delbeke
Henry van Brocklin
Raymond Gibson

Educational Session 10

13:15-14:45 Inflammation (CANCER) (ROOM 313 A/B/C)
Moderators: Susanne Kossatz

13:15 ES 31: The biology and immunology of cancer immunotherapy
Victor H. Engelhard Carter Immunology Center,
University of Virginia School of Medicine, Charlottesville,
Virginia, USA (2318634)

13:45 ES 32: In vivo imaging of immune cells in immunotherapy
Erik Aarntzen Radiology and Nuclear Medicine,
Radboudumc, Nijmegen, Netherlands (2343588)

14:15 ES 33: Harnessing Intravital Microscopy To Understand The Realtime Dynamics of Immune Cells in The Tumor Microenvironment.
Mark B. Headley, Matthew Krummel Pathology,
University of California, San Francisco, San Francisco,
California, USA (2347187)

Educational Session 11

13:15-14:45 Radiomics (ROOM 314)
Moderators: Siva Sai Krishna Dasa and Maryellen Giger

13:15 ES 34: Interrogating tumor heterogeneity: the role of radiomics/radiogenomics
Evis Sala Radiology, Memorial Sloan Kettering Cancer
Center, New York, New York, USA (2313794)

13:45 ES 35: Integrating Radiomics and Genomic
Maryellen Giger Department of Radiology and
Committee on Medical Physics, The University of
Chicago, Chicago, Illinois, USA (2324732)

14:15 ES 36: Introduction to Radiomics
Jason T. Lee¹ ¹Crump Institute for Molecular Imaging,
Los Angeles, California, USA; ²Molecular and Medical
Pharmacology, David Geffen School of Medicine at
UCLA, Los Angeles, California, USA (2343000)

Educational Session 12

13:15-14:45 Pharma 3 (ROOM 320 (EMALANI THEATRE))
Moderators: Jack Hoppin and Charles Glaus

13:15 ES 37: Safety Imaging in Drug Discovery and Development – the current status and trends

Xiaoyou Ying DSAR US Bioimaging, Sanofi R&D, Framingham, Massachusetts, USA (2350419)

13:40 ES 38: Beyond Autoradiography: Innovations in Preclinical Tissue Distribution Methods to Solve Problems in Drug Discovery and Development

Marissa Vavrek Pharmacokinetics, Pharmacodynamics, and Drug Metabolism, Merck & Co., Inc., West Point, Pennsylvania, USA (2343207)

14:05 ES 39: Ex vivo Imaging in Safety Assessment and General Toxicology

Scott D. Haller Translational Imaging Center, MPI Research Inc., Mattawan, Michigan, USA (2344166)

14:25 ES 40: Molecular Imaging Approaches to Improving Drug Tolerability

Sarah R. Mudd AbbVie, North Chicago, Illinois, USA (2344010)

14:45-15:15 Break (KAMEHAMEHA EXHIBIT HALL 2 & 3)

Opening Ceremony & Presidential Address

15:15-16:15 Opening Ceremony & Presidential Address (ROOM KALAKAUA BALLROOM B&C)

Plenary Session 1

16:15-17:15 Plenary Session: Zena Werb - Sponsored by WIMIN-IG (KALAKAUA BALLROOM B&C) (ROOM KALAKAUA BALLROOM B&C)
Moderators: Anna Moore and Julie Sutcliffe

16:15 PLS 1: Intravital imaging reveals properties of cancer progression, metastasis and response to therapy
Zena Werb University of California, San Francisco, San Francisco, California, USA (2247309)

Opening Reception

17:15-17:45 Opening Reception (KAMEHAMEHA EXHIBIT HALL 2 & 3)

Poster Session 1

17:45 -18:45 Poster Session (KAMEHAMEHA EXHIBIT HALL 2 & 3)

Odd Numbers will be presented during the first 30 minutes of the session and even numbers during the second 30 minutes. For a complete list of individual abstracts, refer to pages 73-100

Chemistry & Imaging Probes

- CT
- MRI
- Multimodal
- Nuclear Imaging
- Optical Imaging
- Photo-Acoustic Imaging
- Ultrasound

First-in-Human & Clinical Studies

- Cardiology
- Inflammation/Immunology
- Metabolic Disease
- Neurology

Opening Reception CONT'D

18:45-20:00 Opening Reception Cont'd
(KAMEHAMEHA EXHIBIT HALL 2 & 3)

Thursday September 3

Room	311	312	313 A/B/C	314	315	320 (Emalani Theatre)	319A
08:00 - 09:30	Industry Workshop: Mediso	Spotlight Session 1: Early Career - Young Professionals in Molecular Imaging	Spotlight Session 2: Infectious Disease	Spotlight Session 3: Women's Imaging	Spotlight Session 4: Co-Clinical Trials - Data Analysis	MOMIL Symposium: Role of Industry and Academics in Advancing Molecular Imaging Research	
09:30 - 10:30	Plenary Session 2: Elizabeth Morris (Kalakaua Ballroom B&C)						
10:30 - 11:15	Coffee Break, Visit Exhibits & Industry Selected Posters						
11:15 - 12:45	Scientific Session 1: First-in-Human & Clinical Studies: Oncology	Scientific Session 2: Chemistry & Imaging Probes - Optical/Photo-Acoustic Imaging	Scientific Session 3: Preclinical in vivo Studies - Oncology: Multimodal	Scientific Session 4: Chemistry & Imaging Probes - MRI	Scientific Session 5: Chemistry & Imaging Probes - Nuclear Imaging	Late-breaking Abstract Session 1	
12:45 - 13:45	Lunch Break in Exhibit Hall (Sponsored by Aspect Imaging)						WIMIN Membership Meeting
13:45 - 15:15	Scientific Session 6: Technology & Software Developments - Optical/Photo-Acoustic Imaging	Scientific Session 7: Chemistry & Imaging Probes - Multimodal	Scientific Session 8: Preclinical in vivo Studies - Oncology: MRI/Ultrasound	Scientific Session 9: Preclinical in vivo Studies - Inflammation/Immunology	Scientific Session 10: Preclinical in vivo Studies - Neurology	Late-breaking Abstract Session 2	
15:15 - 16:00	Coffee Break & Visit Exhibits						
16:00 - 17:00	Plenary Session 3: Chien Ho (Kalakaua Ballroom B&C)						
17:00 - 18:00	Poster Session 2: Late Breaking Abstract Posters, Poster Award Judging (Exhibit Hall 2 & 3)						



Industry Workshop

08:00-09:30 Mediso (Room 311)

Spotlight Session 01

08:00-09:30 Early Career - Young Professionals in Molecular Imaging (Room 312)

Moderators: Danielle Vugts and Ali Azhdarinia

08:00 SPS 1: Young Investigator Panel Discussion: "This is how I started up my lab, and 10 things I would have liked to know before"

08:00 SPS 1

Willem J. Mulder Radiology, Icahn School of Medicine at Mount Sinai, New York, New York, USA (2344048)

SPS 2

Brian M. Zeglis Chemistry and Biochemistry, Hunter College, New York, New York, USA (2343404)

SPS 3

Jonathan T. Liu University of Washington, Seattle, Washington, USA (2342998)

SPS 4

Kimberly Kelly, Ph.D.
Kimberly A. Kelly Biomedical Engineering, University of Virginia, Charlottesville, Virginia, USA (2343614)

SPS 5

Greg M. Thurber Chemical Engineering and Biomedical Engineering, University of Michigan, Ann Arbor, Michigan, USA (2343378)

08:48 SPS 6: The Early Stage Professionals in Molecular Imaging Group - Goals, Mission and Projects.

Thomas Reiner MSKCC, New York, New York, USA (2324739)

Senior Investigator Panel Discussion: "Our field has changed quickly, and this is the advice I would like to give new postdocs and graduate students."

SPS 7

Anna M. Wu, Ph.D.
Anna M. Wu Molecular and Medical Pharmacology, UCLA School of Medicine, Los Angeles, California, USA (2343607)

SPS 8

Julie Sutcliffe Internal Medicine, UC Davis, Sacramento, California, USA (2343011)

SPS 9

Jason S. Lewis MSKCC, New York, New York, USA (2343605)

SPS 10

John V. Frangioni Curadel, LLC, Worcester, Massachusetts, USA (2342080)

SPS 11

Christopher H. Contag Pediatrics, Stanford University, Stanford, California, USA (2343628)

Spotlight Session 02

08:00-09:30 Infectious Disease (Room 313 A/B/C)

Moderators: Dima Hammoud and Chris Palestro

08:00 SPS 12: Novel Imaging Tracers for Rapid and Noninvasive Assessment of Bacterial Infections

Sanjay K. Jain Johns Hopkins University, Baltimore, Maryland, USA (2313966)

08:30 SPS 13: Molecular imaging of viral infections and their sequelae

Dima A. Hammoud NIH, Bethesda, Maryland, USA (2289518)

09:00 SPS 14: Multimodality imaging of C. rodentium infection during antibiotic chemotherapy

James W. Collins¹, Manal AbuOun², Gad Frankel¹
¹Center for molecular Bacteriology and Infection, Imperial College London, London, United Kingdom;
²Department of Bacteriology, Animal and Plant Health Agency, Addlestone, Surrey, United Kingdom (2314265)

Spotlight Session 03

08:00-09:30 Women's Imaging (Room 314)

Moderators: Anna Moore and Maxine Jochelson

08:00 SPS 15: Precision Medicine in Breast Cancer - use of Cancer Genomics to Improve Outcomes and Personalize Treatment in Early and Advanced Disease

Philomena McAndrew Medicine/ Hematology Oncology, Cedars Sinai Medical Center, Beverly Hills, California, USA (2314654)

08:30 SPS 16: Imaging of Gynecologic Tumors: Combining Morphology and Function Abstract

Evis Sala Radiology, Memorial Sloan Kettering Cancer Center, New York, New York, USA (2342955)

09:00 SPS 17: Imaging for the Detection, Staging and Follow-up of Breast Cancer When Does Physiology Trump Anatomy

Maxine Jochelson Radiology, MSKCC, New York, New York, USA (2300259)

Spotlight Session 04

08:00-09:30 Co-Clinical Trials - Data Analysis (Room 315)

Moderators: John Hazle

08:00 SPS 18: Co-Clinical Trials Data Analysis

John Hazle MD Anderson Cancer Center, Houston, Texas, USA (2343355)

* Denotes highlight lecture

Thursday September 3 (continued)

08:05 SPS 19: Quantitation and informatics needs for co-clinical trials

John Sunderland Radiology, University of Iowa, Iowa City, Iowa, USA (2342138)

08:35 SPS 20: Of Mice and Men: Mapping the Landscape of Murine Models in Molecule Imaging

David Piwnica-Worms Cancer Systems Imaging, University of Texas MD Anderson Cancer Center, Houston, Texas, USA (2323561)

09:05 SPS 21: NCI: New and Current Imaging Initiatives that Support Precision Medicine

Paula M. Jacobs, Laurence P. Clarke Division of Cancer Treatment and Diagnosis\Cancer Imaging Program, National Cancer Institute, Bethesda, Maryland, USA (2343613)

MOMIL Symposium

08:00-09:30 Role of Industry and Academics in Advancing Molecular Imaging Research(ROOM 320 - EMALANI THEATRE)

Plenary Sesison 2

09:30-10:30 Plenary Sesison 2: Elizabeth Morris (KALAKAUA BALLROOM B&C) (ROOM KALAKAUA BALLROOM B&C)
Moderators: Kimberly Kelly and Maxine Jochelson

09:30 PLS 2: Breast Imaging in the Era of Personalized Medicine
Elizabeth Morris Memorial Sloan Kettering Cancer Center, New York, New York, USA (2308792)

10:30-11:15 Coffee Break, Industry Selected Posters & Visit Exhibits (KAMEHAMEHA EXHIBIT HALL 2 & 3)

Scientific Session 01

11:15-12:45 First-in-Human & Clinical Studies: Oncology (ROOM 311)

Moderators: Cesar Castro and Brian Zeglis

11:15 SS 1: Photo-Acoustic Imaging Enables Real-time, Non-invasive Detection of Microvascular Disease and Local Oxygenation Defects in Patients with Chronic Lower Limb Ischemia

Petra Korpisalo¹, Santeri Tarvainen¹, Galina Wirth¹, Kimmo Mäkinen², Tomi Laitinen², Seppo Ylä-Herttua¹
¹Dept. Molecular Medicine and Biotechnology, Uiveristy of Eastern Finland, Kuopio, Finland; ²Kuopio University Hospital, Kuopio, Finland (2229429)

11:25 SS 2: Dual Tracer PET/MRI of Breast Tumors: Insights Into Tumor Biology

Katja Pinker-Domenig¹, Pascal A. Baltzer¹, Piotr Andrzejewski³, Heinrich Magometschnigg¹, Dietmar Georg³, Georgios Karanikas⁴, Wolfgang Wadsak⁴, Panagiotis Kapetas¹, Thomas H. Helbich¹
¹Dept. of Biomedical Imaging and Image-guided Therapy, Division of Molecular and Gender Imaging, Medical University Vienna, Vienna, Austria; ²Molecular Imaging and Therapy Services, Memorial Sloan-Kettering Cancer Center, New York, New York, USA; ³Christian Doppler Laboratory for Medical Radiation Research for Radiation Oncology, Department of Radiation Oncology, Medical University Vienna, Vienna, Austria; ⁴Department of Biomedical Imaging and Image-guided Therapy, Division of Nuclearmedicine, Medical University Vienna, Vienna, Austria (2224482)

11:35 SS 3: ⁶⁴Cu-DOTATATE PET for Somatostatin Receptor Imaging of Neuroendocrine Tumor Patients: a Prospective Head-to-Head Comparison with ¹¹¹In-DTPA-octreotide in 112 patiens.

Andreas Pfeifer¹, Ulrich Knigge², Tina Binderup², Jann Mortensen², Peter Oturai², Anne Kiil Berthelsen², Seppo Langer², Palle Rasmussen³, Dennis Elema³, Eric von Benzon², Liselotte Hojgaard², Andreas Kjaer¹
¹Nuclear Medicine & PET, Rigshospitalet & University of Copenhagen, Copenhagen, Denmark; ²Rigshospitalet, Copenhagen, Denmark; ³DTU, Lygby, Denmark (2228410)

***11:45 SS 4: Volumetric MR Spectroscopic Imaging Identifies Infiltrating Margin in Glioblastoma for 5-ALA Intraoperative Fluorescence-Guided Surgery**

James S. Cordova², Constantinos G. Hadjipanayis³, Zhongxing Liang², Lee A. Cooper⁵, Brad A. Kairdolf⁶, Stewart G. Neill⁴, Christina L. Appin⁴, Jeffrey J. Olson³, Chad A. Holder², Hyunsuk Shim²
¹Winship Cancer Institute, Atlanta, Georgia, USA; ²Radiology, Emory University, Atlanta, Georgia, USA; ³Neurosurgery, Emory University, Atlanta, Georgia, USA; ⁴Pathology, Emory University, Atlanta, Georgia, USA; ⁵Biomedical Informatics, Emory University, Atlanta, Georgia, USA; ⁶Biomedical Engineering, Georgia Institute of Technology, Atlanta, Georgia, USA (2229010)

- 12:05 SS 5: Clinical application of noninvasive and nonradioactive determination of microscopic lymph node tumor status by multispectral optoacoustic imaging**
 Ingo Stoffels¹, Stefan Morscher², Iris Helfrich¹, Julia Leyh¹, Neal C. Burton², Thomas Sardella², Jing Claussen², Thorsten D. Poeppel³, Alexander Roesch¹, Klaus Griewank¹, Dirk Schadendorf¹, Matthias Gunzer⁴, Joachim Klode¹ ¹Department of Dermatology, University Hospital Essen, Essen, Germany; ²iThera Medical, Munich, Germany; ³Department of Nuclear Medicine, University Hospital Essen, Essen, Germany; ⁴Institute for Experimental Immunology and Imaging, Imaging Center Essen (IMCES), University Hospital Essen, Essen, Germany; ⁵West German Cancer Center, University Duisburg-Essen, Essen, Germany (2232747)
- 12:15 SS 6: A first in human study with the first tumor-specific agent with fluorescence in the NIR spectrum for image-guided surgery: a translational study.**
 Charlotte E. Hoogstins¹, Quirijn R. Tummers¹, Adam F. Cohen², Cornelis J. van de Velde¹, Philip S. Low³, Alexander L. Vahrmeijer¹, Jacobus Burggraaf² ¹Surgery, Leiden University Medical Center, Leiden, Netherlands; ²Centre for Human Drug Research, Leiden, Netherlands; ³Purdue University, West Lafayette, Indiana, USA (2233307)
- 12:25 SS 7: Clinical Trial: Efficacy of ⁶⁸Ga-DOTATATE PET/CT in Patients with Neuroendocrine Tumors**
 Stephen A. Deppen², Adam Bobbey¹, Jeff Clanton¹, Martin Sandler¹, Dominique Delbeke¹, Ronald C. Walker¹ ¹Radiology & Radiological Sciences, Vanderbilt University Medical Center, Nashville, Tennessee, USA; ²Department of Surgery, Vanderbilt University Medical Center, Nashville, Tennessee, USA (2234335)
- 12:35 SS 8: Molecular Imaging to assess and monitor tissue proliferation by ¹⁸F-FLT PET/CT during investigational Breast Cancer Therapy**
 Michael V. Knopp¹, Katherine Binzel¹, Xiaoli Lan¹, Preethi Subramanian¹, Prayna Bhatia¹, Nathan Hall¹, Bhuvaneswari Ramaswamy², Jun Zhang¹ ¹Wright Center of Innovation, The Ohio State University Wexner Medical Center, Columbus, Ohio, USA; ²Division of Medical Oncology, The Ohio State University Comprehensive Cancer Center, Columbus, Ohio, USA (2245144)
- 11:15 SS 9: Matrix Metalloproteinase MMP-2 Detection by Photoacoustic Lifetime Contrast Imaging**
 Ekaterina Morgounova¹, Sadie Johnson², Michael J. Wilson³, Benjamin J. Hackel², Shai Ashkenazi¹ ¹Biomedical Engineering, University of Minnesota - Twin Cities, Minneapolis, Minnesota, USA; ²Chemical Engineering and Materials Science, University of Minnesota - Twin Cities, Minneapolis, Minnesota, USA; ³Laboratory Medicine and Pathology, University of Minnesota - Twin Cities, Minneapolis, Minnesota, USA; ⁴Minneapolis VA Medical Center, Minneapolis, Minnesota, USA (2233742)
- 11:25 SS 10: "Turn-on" Optical Probes for Imaging Mn²⁺ in Live Cells.**
 Anindita Sarkar, Subha Bakthavatsalam, Ananya Rakshit, Ankona Datta Department of Chemical sciences, Tata Institute of Fundamental Research, Mumbai, Maharashtra, India (2243187)
- 11:35 SS 11: Synthesis, characterization and application of monofluorinated resazurin, a selective Cerenkov absorbing viability and redox dye**
 Alejandro D. Arroyo, Alexander Kachur, Elizabeth Browning, Eric Blankemeyer, Anatoly V. Popov, Edward J. Delikatny Radiology, University of Pennsylvania, Philadelphia, Pennsylvania, USA (2228986)
- 11:45 SS 12: Small Molecule Dye based Probes for Near Infrared Window II Fluorescent Imaging of Tumor and Image-guided Surgery**
 Hao Chen², Kai Cheng³, Yao Sun⁴, Xuechuan Hong², Zhen Cheng⁵ ¹Molecular Imaging Program at Stanford and Bio-X Program, Stanford University, Stanford, California, USA; ²School of Pharmaceutical Sciences, State Key Laboratory of Virology, Key Laboratory of Combinatorial Biosynthesis and Drug Discovery, Wuhan, Hubei, China; ³Department of Radiology, Molecular Imaging Program at Stanford (MIPS), Bio-X Program, Stanford, California, USA (2232739)
- 11:55 SS 13: AS1411 aptamer guided QD655 labeled DNA Origami working as a novel nanoprobe for fluorescence molecular imaging in breast tumor mouse model**
 Yang Du, Qian Zhang, Jie Tian Chinese Academy of Sciences, Institute of Automation, Beijing, China (2227805)
- *12:05 SS 14: Multispectral optoacoustic tomography detects orthotopic pancreatic tumors in vivo using a Syndecan-1 conjugated mesoporous silica-coated gold nanorod as a nano-contrast agent**
 Anil Khanal², Lacey R. McNally¹ ¹Medicine, University of Louisville, Louisville, Kentucky, USA; ²Medicine, University of Louisville, Louisville, Kentucky, USA (2229698)

Scientific Session 02

- 11:15-12:45 Chemistry & Imaging Probes - Optical/ Photo-Acoustic Imaging (Room 312)**
Moderators: Vasilis Ntziachristos and Mingfeng Bai

* Denotes highlight lecture

Thursday September 3 (continued)

12:25 SS 15: A luciferin analog achieves highly sensitive deep-tissue tumor imaging using near-infrared bioluminescence
Takahiro Kuchimaru¹, Satoshi Iwano², Masahiro Kiyama², Shun Mitsumata¹, Tetsuya Kadonosono¹, Haruki Niwa², Shojiro Maki², Shinae Kizaka-Kondoh¹
¹Tokyo Institute of Technology, Yokohama, Japan; ²The University of Electro-Communications, Tokyo, Japan (2232022)

12:35 SS 16: Disease Screening Pill: *In Vivo* Demonstration of an Orally Available Near-Infrared Molecular Imaging Agent for Early Diagnosis of Cancer Using Mouse Xenografts
Sumit Bhatnagar², Kirti Dhingra², Jianshan Liao², Greg M. Thurber¹
¹Chemical Engineering and Biomedical Engineering, University of Michigan, Ann Arbor, Michigan, USA; ²Chemical Engineering, University of Michigan, Ann Arbor, Michigan, USA (2244674)

Scientific Session 03

11:15-12:45 Preclinical in vivo Studies - Oncology: Multimodal (Room 313 A/B/C)

Moderators: Jung-Joon Min and Kim Brewer

11:15 SS 17: Multiparametric longitudinal *in vivo* PET/MRI imaging of patient derived orthotope and subcutaneous colorectal cancer in rats
Anna Kuhen, Kerstin Fuchs, Maren Harant, Sandro Aidone, Bernd J. Pichler
Werner Siemens Imaging Center, Department of Preclinical Imaging and Radiopharmacy, Eberhard Karls University of Tuebingen, Tuebingen, Germany (2233003)

11:25 SS 18: In vitro and in vivo evaluation of mTOR inhibitor treatment in gastrointestinal stromal tumor using PET/MRI/¹³C NMR
Valentina Di Galleonardo¹, Hannah N. Aldeborgh¹, Alex J. Poot¹, Sui Seng Tee¹, Julio A. Alvarez¹, William D. Tap¹, Jason S. Lewis¹, Wolfgang Weber¹, Kayvan R. Keshari¹
¹Memorial Sloan Kettering Cancer Center, New York, New York, USA; ²Medicine, Memorial Sloan Kettering Cancer Center, New York, New York, USA (2233034)

11:35 SS 19: Therapy response monitoring of a highly efficient T cell and checkpoint inhibitor-based immunotherapy in mice with progressed pancreatic cancer with ¹⁸F-FDG-PET/MRI
Barbara F. Schörg¹, Dominik B. Krüger¹, Christoph M. Griessinger¹, Sabrina H. Eilenberger¹, Gerald Reischl², Walter Ehrlichmann², Martin Röcken³, Manfred Kneilling³, Bernd J. Pichler¹
¹Werner Siemens Imaging Center, Department of Preclinical Imaging and Radiopharmacy, Eberhard Karls University Tübingen, Tübingen, Germany; ²Department of Preclinical Imaging and Radiopharmacy, Eberhard Karls University Tübingen, Tübingen, Baden-Württemberg, Germany; ³Department of Dermatology, Eberhard Karls University Tübingen, Tübingen, Germany (2233744)

***11:45 SS 20: *In vivo* bio-distribution of systemically injected exosomes derived from breast cancer cells using NIR and PET imaging**
Kyung Oh Jung⁴, Hyewon Youn¹, Keon Wook Kang³, June-Key Chung⁵
¹Cancer Imaging Center, Seoul National Univ, Seoul, Jongno-Gu, Korea (the Republic of); ²Cancer Research Institute, Seoul National University, Seoul, Korea (the Republic of); ³Nuclear Medicine, Seoul National University, Seoul, Korea (the Republic of); ⁴Biomedical Sciences, Seoul National University, Seoul, Korea (the Republic of); ⁵Tumor Microenvironment Global Core Research Center, Seoul National University, Seoul, Korea (the Republic of) (2232815)

12:05 SS 21: Multimodal imaging of breast cancer metastasis targeting and antimetastatic nanotherapy
Larissa Rizzo¹, Cristianne Rijcken², Robert Pola³, Gert Storm⁴, Josef Ehling¹, Saskia von Stillfried¹, Fabian Kiessling¹, Twan Lammers¹
¹Experimental Molecular Imaging, RWTH Aachen University, Aachen, Germany; ²Cristal Therapeutics, Maastricht, Netherlands; ³Institute of Macromolecular Chemistry, Academy of Sciences, Prag, Czech Republic; ⁴Department of Pharmaceutics, Utrecht University, Utrecht, Netherlands; ⁵Department of Targeted Therapeutics, University of Twente, Enschede, Netherlands; ⁶Department of Pathology, RWTH Aachen University Hospital, Aachen, Germany (2231311)

12:15 SS 22: Visualization of colon and NSCL cancer using Novel Protein Scaffold, anti-EGFR Repebody
Misun Yun¹, Dong-Yeon Kim¹, Hyeon Sik Kim¹, Zheng Jinhai¹, Ayoung Pyo¹, Yeongjin Hong², Jung-Joon Min¹
¹Nuclear Medicine, Chonnam National University Hwasun Hospital, Hwasun, Korea (the Republic of); ²Microbiology, Chonnam National University Medical School, Gwangju, Korea (the Republic of) (2232515)

12:25 SS 23: Assessing Tumor Oxygenation and Perfusion in Response to a Novel Vascular Disrupting Agent OXi6197 Using Color-Doppler Ultrasound, Multi-parametric MRI and Bioluminescence Imaging
Heling Zhou¹, Ramona Lopez¹, Zhang Zhang², Debabrata Saha², Rebecca Denney¹, Mary Lynn Trawick³, Kevin Pinney³, Ralph Mason¹
¹Radiology, UT Southwestern Medical Center, Dallas, Texas, USA; ²Radiation Oncology, UT Southwestern Medical Center, Dallas, Texas, USA; ³Chemistry and Biochemistry, Baylor University, Dallas, Texas, USA (2232706)

12:35 SS 24: Dynamic imaging of targeted versus passive diffusion of nanomedicines into tumours :A simultaneous PET-MR study
Kristofer Thurecht, Idriss Blakey, Simon Puttick, Nathan Boase, Amanda Pearce, Adrian Fuchs, Andrew Whittaker
Centre for Advanced Imaging and Australian Institute for Bioengineering and Nanotechnology, The University of Queensland, Brisbane, Queensland, Australia (2233793)

* Denotes highlight lecture

Scientific Session 04

11:15-12:45 Chemistry & Imaging Probes - MRI (Room 314)
Moderators: Naranamangalam Jagannathan and Joseph Ackerman

11:15 SS 25: Molecular MRI With Engineered Physiology Enables High-Sensitivity Brain Imaging *In Vivo*
 Adrian L. Slusarczyk¹, Mitul Desai¹, Ashley Chapin¹, Mariya Barch¹, Alan Jasanoff¹ ¹Biological Engineering, MIT, Cambridge, Massachusetts, USA; ²Brain and Cognitive Sciences, MIT, Cambridge, Massachusetts, USA (2225523)

11:25 SS 26: A novel hyperpolarized biosensor for ¹³C magnetic resonance spectroscopic imaging of pH
 Stephan Düwel², Christian Hundshammer¹, Malte Gersch², Benedikt Feueracker¹, Axel Haase³, Steffen Glaser², Markus Schwaiger¹, Franz Schilling²
¹Department of Nuclear Medicine, Klinikum rechts der Isar, Technische Universität München, Munich, Germany; ²Department of Chemistry, Technische Universität München, München, Germany; ³Institute of Medical Engineering, Technische Universität München, Garching, Germany (2226490)

11:35 SS 27: IGF-1 Conjugated Theranostic Iron Oxide Nanoparticles for Targeting and Delivery of SN-38 to Pancreatic Cancer
 Yuan Cheng Li¹, Hongyu Zhou², Liya Wang¹, Lily Yang², Hui Mao¹ ¹Radiology and Imaging Sciences, Emory University, Atlanta, Georgia, USA; ²Surgery, Emory University, Atlanta, Georgia, USA (2233873)

11:45 SS 28: Novel contrast agents for detection of hypoxia with optical and magnetic resonance (MR) imaging
 Karolina Jankowska¹, Edward S. O'Neill¹, Paul Bonnitcho², Elizabeth J. New¹ ¹School of Chemistry, The University of Sydney, Sydney, New South Wales, Australia; ²The Kolling Institute of Medical Research, The University of Sydney, Sydney, New South Wales, Australia (2230419)

***11:55 SS 29: High-resolution quantitative mapping of glucose metabolic disorders following mild traumatic brain injury using *in vivo* glucoCEST**
 Tsang-Wei Tu, Rashida Williams, Neekita Jikaria, Lisa Turtzo, Joseph Frank Radiology and Imaging Sciences, National Institute of Health, Bethesda, Maryland, USA (2233013)

12:15 SS 30: Assessing Kidney Function with Magnetic Resonance Imaging of Hyperpolarised ¹⁵N-Glutamine
 Markus Durst¹, Enrico Chiavazza², Axel Haase¹, Silvio Aime², Markus Schwaiger⁴, Rolf F. Schulte³ ¹IMETUM, Technical University of Munich, Garching, Bavaria, Germany; ²University of Torino, Turin, Italy; ³GE Global Research, Garching, Germany; ⁴Technical University of Munich, München, Germany (2230507)

12:25 SS 31: Comparison of ¹H and ¹³C Apparent Diffusion Coefficient Values of Mice Liver *in vivo* using Dynamic Nuclear Polarization and Magnetic Resonance Imaging at 14T

Irene Marco-Rius¹, Jeremy W. Gordon¹, Robert Bok¹, Peder E. Larson¹, Subramaniam Sukumar¹, Zihan Zhu², Cornelius von Morze¹, Daniel Vigneron¹, John Kurhanewicz¹, Michael A. Ohliger¹ ¹Radiology and Biomedical Imaging, University of California San Francisco, San Francisco, California, USA; ²University of California, San Francisco, San Francisco, California, USA (2232322)

12:35 SS 32: Pre-screening candidates for Optical Surgical Navigation by detecting GGT enzyme activity with catalyCEST MRI

Sanhita Sinharay⁴, Kyle Jones³, Edward A. Randtke³, Christine Howison³, Hisataka Kobayashi¹, Mark Pagel⁵, Setsuko K. Chambers² ¹Molecular Imaging Program, NCI/NIH, Bethesda, Maryland, USA; ³Biomedical Engineering, University of Arizona, Tucson, Arizona, USA; ⁴Chemistry and Biochemistry, University of Arizona, Tucson, Arizona, USA; ⁵University of Arizona, Tucson, Arizona, USA (2234085)

Scientific Session 05

11:15-12:45 Chemistry & Imaging Probes - Nuclear Imaging (Room 315)
Moderators: Carolyn Anderson and Julie Sutcliffe

11:15 SS 33: Nanogels from Metal-Chelating Crosslinkers as Platforms for Bimodal MRI/PET Imaging: An Application to Copper-64 PET Imaging of Tumors and Metastases
 Jacques Lux¹, Alexander G. White², Minnie Chan¹, Carolyn J. Anderson², Adah Almutairi¹ ¹School of Pharmacy, UCSD, San Diego, California, USA; ²Departments of Radiology, Pharmacology & Chemical Biology and Bioengineering, University of Pittsburgh, Pittsburgh, Pennsylvania, USA; ³KACST-UCSD Center for Excellence in Nanomedicine and Engineering, La Jolla, California, USA (2227450)

11:25 SS 34: Breast Cancer Immuno-PET Imaging in Mice Using a Natural Nano-tracer
 Jun Tang², Carlos Perez Medina², Dalya Abdel-Atti⁵, Edward A. Fisher⁷, Miriam Merad⁸, Zahi . Fayad⁶, Jason S. Lewis¹, Willem J. Mulder⁴, Thomas Reiner³ ¹MSKCC, New York, New York, USA; ²Radiology, Memorial Sloan Kettering Cancer Center, New York City, New York, USA; ⁵Radiology, Memorial Sloan Kettering Cancer Center, New York, New York, USA; ⁶Radiology, Icahn School of Medicine at Mount Sinai, New York, New York, USA; ⁷Cardiology, NYU School of Medicine, New York, New York, USA; ⁸Tisch Cancer Institute, Icahn School of Medicine at Mount Sinai, New York, New York, USA (2233463)

* Denotes highlight lecture

Thursday September 3 (continued)

11:35 SS 35: Peptide heterodimer for the uPAR- $\alpha_v\beta_3$ dual-targeted cancer imaging

Dexing Zeng¹, Yongkang Gai¹, Guangya Xiang², Xiang Ma², Lingyi Sun¹ ¹Radiology, University of Pittsburgh, Pittsburgh, Pennsylvania, USA; ²School of Pharmacy, Tongji Medical College, Huazhong University of Science and Technology, Wuhan, Hubei, China (2232692)

11:45 SS 36: ⁹⁰Y PET imaging: Optimization for Preclinical Settings

Katerina Eigner Henke¹, Ondrej Lebeda¹, Jens Waldeck³, Sarah Chapman⁴, W. M. Leevy⁴, Sebastian Eigner⁵ ¹Radiopharmaceuticals, NPI AS CR, Husinec-Rez, Czech Republic; ²SKS Biotech, s.r.o., Litomerice, Czech Republic; ³Bruker BioSpin MRI GmbH, Ettlingen, Germany; ⁴Notre Dame Integrated Imaging Facility, Notre Dame, Indiana, USA; ⁵Center for Advanced Preclinical Imaging, Institute of Pathological Physiology, First Faculty of Medicine, Charles University in Prague, Prague, Czech Republic (2233219)

***11:55 SS 37: [¹⁸F]FP-R₀-1-MG-F2, A Radiofluorinated Cystine Knot PET Tracer for Pancreatic Cancer Detection**

Richard Kimura¹, Bin Shen¹, Timothy H. Witney¹, Rammohan Devulapally¹, Fabian Filipp², Ohad Ilovich¹, Arutselvan Natarajan¹, Zhen Cheng¹, Frederick T. Chin¹, Sanjiv S. Gambhir¹ ¹Department of Radiology, Stanford University, London, California, USA; ²Biology, UC Merced, Merced, California, USA (2234280)

12:15 SS 38: A Potent and Selective C-11 Labeled PET Tracer for Imaging Sphingosine-1-phosphate Receptor 2 (S1PR2)

Xuyi Yue¹, Hongjun Jin¹, Hui Liu¹, Adam J. Rosenberg¹, Hao Yang¹, Robyn S. Klein², Zhude Tu¹ ¹Department of Radiology, Washington University School of Medicine, St. Louis, Missouri, USA; ²Departments of Medicine, Anatomy & Neurobiology, Pathology & Immunology, Washington University School of Medicine, St. Louis, Missouri, USA (2234067)

12:25 SS 39: A Novel Method for Dimerizing RGD peptides at Room Temperature Using ¹⁸F-Hexafluorobenzene as a Prosthetic Group

Orit Jacobson Weiss¹, Xuefeng Yan¹, Gang Niu¹, Dale O. Kiesewetter¹, Xiaoyuan Chen² ¹LOMIN, NIBIB/NIH, Bethesda, Maryland, USA; ²National Institute of Biomedical Imaging and Bioengineering, National Institutes of Health, Bethesda, Maryland, USA (2243261)

12:35 SS 40: SPECT/CT Imaging of a Novel HER2-targeted Peptide ^{99m}Tc-HYNIC-YLF8 in a Breast Cancer Mouse Model

Chengyan Dong¹, Liqiang Li², Zihua Wang³, Yue Wu², Zhiyuan Hu³, Bing Jia², Fan Wang⁴ ¹Interdisciplinary Laboratory, Institute of Biophysics, Chinese Academy of Sciences, Beijing, China; ²Medical Isotopes Research Center, Peking University, Beijing, China; ³National Center for Nanoscience and Technology, Chinese Academy of Sciences, Beijing, China; ⁴Medical Isotopes Research Center, Peking University, Beijing, China (2232866)

Late-breaking Abstract Session 1

11:15-12:45 Late-breaking Abstracts (Room 320 (EMALANI THEATRE))

Moderators: Jason Lewis and H. Charles Manning

11:15 LBA 1: Kinetic Modeling and Parametric Imaging in the First Human Dynamic Whole-body [¹⁸F]FDS PET Study

Yun Zhou¹, Li Huo², Xueqi Chen¹, Fang Li², Jeffrey Leal¹, Martin Pomper¹ ¹Johns Hopkins University School of Medicine, Baltimore, Maryland, USA; ²Peking Union Medical College Hospital, Beijing, China (2319575)

11:25 LBA 2: Intraoperative optical imaging of peritoneal carcinomatosis of colorectal origin using a VEGF targeted fluorescent tracer – Results of the Hi-Light study, a first in human imaging study

Niels Harlaar¹, Marjory Koller¹, Steven J. de Jongh¹, Barbare van Leeuwen¹, Patrick H. Hemmer¹, Robert van ginkel¹, Lukas Been¹, Gursah Kats-Ugurlu², Marjolijn Lub-de Hooge³, Matthijs Linssen³, Annelies Jorritsma³, Wouter Nagengast⁴, An Reyners⁵, Vasilis Ntziachristos⁶, Gooitzen M. van Dam¹ ¹Surgery, University Medical Center Groningen (UMCG), Groningen, Netherlands; ²Pathology, University Medical Center Groningen, Groningen, Netherlands; ³Clinical Pharmacy and Pharmacology, University Medical Center Groningen (UMCG), Groningen, Netherlands; ⁴Gastroenterology, University Medical Center Groningen (UMCG), Groningen, Netherlands; ⁵Medical Oncology, University Medical Center Groningen (UMCG), Groningen, Netherlands; ⁶Munich Institute for Biological and Medical Imaging (IBMI), Helmholtz Zentrum München, Neuherberg, Germany (2326152)

11:35 LBA 3: First in human study of [¹⁸F]F-AraG, a PET tracer for monitoring anti-tumor immune response during cancer immunotherapy

Shahriar Yaghoubi¹, Henry VanBrocklin², Emily Verdin², Salma Jivan², Samuel Quezada¹, Gang Ren¹, Jennifer Bates¹, Tina Lam¹, Benjamin L. Franc², Randall Hawkins², Sanjiv S. Gambhir³ ¹CellSight Technologies, Inc., San Francisco, California, USA; ²UCSF, San Francisco, California, USA; ³Stanford University, Stanford, California, USA (2323764)

* Denotes highlight lecture



11:45 LBA 4: First Clinical Trial on Safety and Feasibility of KDR-targeted Ultrasound Molecular Imaging in Patients with Breast and Ovarian Lesions

Juergen K. Willmann¹, Lorenzo Bonomo², Pierluigi Rinaldi², Antonia Testa³, Guido Rindi⁴, Sanjiv S. Gambhir¹ ¹Radiology, Stanford University, Stanford, California, USA; ²Radiology, Catholic University Sacro Cuore, Rome, Italy; ³Obstetrics and Gynecology, Catholic University Sacro Cuore, Rome, Italy; ⁴Pathology, Catholic University Sacro Cuore, Rome, Italy (2325947)

11:55 LBA 5: First-in-humans: molecular-guided fluorescence endoscopy using near-infrared fluorescent bevacizumab allows colorectal polyp identification *in vivo*

Jolien Tjalma¹, Pilar Beatriz Garcia Allende², Elmiere Hartmans¹, Marjory Koller³, Matthijs Linssen⁴, Jurgen Glatz², Maximilian Koch², Annelies Jorritsma⁴, Arend Karrenbeld⁵, Rina Bijlsma¹, Jan Kleibeuker¹, Dominic Robinson⁶, Gooitzen M. van Dam³, Vasilis Ntziachristos², Wouter Nagengast¹ ¹Gastroenterology and Hepatology, University of Groningen, University Medical Center Groningen, Groningen, Netherlands; ²Chair for Biological Imaging & Institute for Biological and Medical Imaging, Technical University of Munich and Helmholtz Center Munich, Munich, Germany; ³Surgery, University of Groningen, University Medical Center Groningen, Groningen, Netherlands; ⁴Clinical Pharmacy and Pharmacology, University of Groningen, University Medical Center Groningen, Groningen, Netherlands; ⁵Pathology, University of Groningen, University Medical Center Groningen, Groningen, Netherlands; ⁶Otolaryngology and Head & Neck Surgery, Erasmus MC, University Medical Center Rotterdam, Rotterdam, Netherlands (2325569)

12:05 LBA 6: First-in-human Phase I study of SGM-101, a fluorochrome-labeled anti-carcinoembryonic antigen (CEA) monoclonal antibody for the detection of neoplastic lesions in patients with peritoneal carcinomatosis from CEA overexpressing digestive cancer.

Françoise Cailler¹, Marian Gutowski², André Pelegrin³, Sébastien Carrere², François Quenet^{1,2} SurgiMab, Montpellier, France; ²Surgery, Institut du Cancer à Montpellier (ICM), Montpellier, France; ³U1194, Institut de Recherche en Cancérologie de Montpellier, Montpellier, France (2325706)

12:15 LBA 7: Metabolic dynamics of hyperpolarized [1-¹³C] pyruvate in human prostate cancer

Kristin L. Granlund¹, Hebert Alberto Vargas¹, Serge Lyashchenko², Phillip J. DeNoble², Julio Alvarez¹, Vincent P. Laudone⁴, James Eastham⁴, Ramon E. Sosa¹, Matthew Kennedy¹, Duane Nicholson¹, Albert P. Chen⁵, James Tropp⁵, Hedvig Hricak¹, Kayvan R. Keshari¹ ¹Radiology, Memorial Sloan Kettering Cancer Center, New York, New York, USA; ²Radiochemistry and Imaging Probes Cores (RMIP), Memorial Sloan Kettering Cancer Center, New York, New York, USA; ³Molecular Pharmacology, Memorial Sloan Kettering Cancer Center, New York, New York, USA; ⁴Urology, Memorial Sloan Kettering Cancer Center, New York, New York, USA; ⁵General Electric, Toronto, Ontario, Canada (2325967)

12:25 LBA 8: Development of First In Human 3D Parametric Maps for Texture Analysis of Volumetric DCE-US to Spatially Monitor Flow Patterns During Colorectal Cancer Liver Metastases Treatment

Ahmed El Kaffas¹, George Fisher², Rosa M. Sigrist¹, Huaijun Wang¹, Rachel Reyes¹, Alexander Karanany¹, Dimitre Hristov³, Juergen K. Willmann¹ ¹Radiology, Stanford University, Palo Alto, California, USA; ²Oncology, Stanford University, Palo Alto, California, USA; ³Radiation Oncology, Stanford University, Palo Alto, California, USA (2326728)

12:35 LBA 9: Clinical Evaluation of 18F-FSPG PET as a Precision Imaging Diagnostic of Hepatocellular Carcinoma

Jennifer M. Watchmaker¹, Jason R. Buck², Ronald C. Walker², Mary Kay Washington¹, Michael L. Nickels², Norman Koglin³, Andrew W. Stephens³, Sunil K. Geevarghese¹, H. Charles Manning² ¹Vanderbilt University School of Medicine, Nashville, Tennessee, USA; ²Vanderbilt University Institute of Imaging Science, Nashville, Tennessee, USA; ³Piramal Imaging GmbH, Berlin, Germany (2325427)

12:45-13:45 Lunch Break in Exhibit Hall (Sponsored by Aspect Imaging) (KAMEHAMEHA EXHIBIT HALL 2 & 3)

12:45-14:45 Springer Editorial Luncheon (Room 317A)

12:45-13:45 Women in Molecular Imaging Network Membership Meeting (Room 319A)

* Denotes highlight lecture

Thursday September 3 (continued)

Scientific Session 06

**13:45-15:15 Technology & Software Developments -
Optical/Photo-Acoustic Imaging (Room 311)**
Moderators: Stanislav Emelianov

**13:45 SS 41: Development of Hexacene Based Nanoparticles for
Optoacoustic imaging**

Robert K. Prud'homme¹, Antonio Nunes², Vikram J. Pansare¹, Nicolas Beziere², Josefine Reber², Matthew Bruzek³, John Anthony³, Vasilis Ntziachristos², Hoang D. Lu¹, Shahram Hejazi⁴ ¹Chem. and Biol. Engr., Princeton University, Princeton, New Jersey, USA; ²Institute for Biological and Medical Imaging, Neuherberg, Germany; ³Chemistry, University of Kentucky, Lexington, Kentucky, USA; ⁴Optimeos Life Sciences, Princeton, New Jersey, USA (2229924)

**13:55 SS 42: Illuminating the shadows of cervical disease using
a mobile digital diffraction platform**

Cesar M. Castro¹, Hyungsoon Im¹, Divya Pathania¹, Ralph Weissleder¹, Hakho Lee¹ ¹Massachusetts General Hospital, Boston, Massachusetts, USA; ²Harvard Medical School, Boston, Massachusetts, USA (2233272)

**14:05 SS 43: Intravital visualization and quantification of
thrombotic processes based on non-linear microscope**

Satoshi Nishimura the Univ of Tokyo, Jichi Med Univ, Tokyo, Japan (2227817)

**14:15 SS 44: A miniature handheld line-scanned dual-axis
confocal (LS-DAC) microscope for early detection and
surgical guidance**

Michael J. Mandella¹, Prasanth C. Pillai³, Chengbo Yin³, Steven Y. Leigh³, Sanjeewa Abeytunge⁵, Gary Peterson⁵, Milind Rajadhyaksha⁵, Jonathan T. Liu³ ¹Molecular Imaging Program at Stanford (MIPS), Stanford, California, USA; ²Pediatrics, Stanford University School of Medicine, Stanford, California, USA; ³Mechanical Engineering, University of Washington, Seattle, Washington, USA; ⁴Biomedical Engineering, State University of New York (SUNY) at Stony Brook, Seattle, Washington, USA; ⁵Dermatology Service, Memorial Sloan-Kettering Cancer Center, New York, New York, USA (2232386)

**14:25 SS 45: In Vivo Molecular Contrast OCT imaging of
Methylene Blue**

Wihan Kim, Brian E. Applegate Biomedical Engineering, Texas A&M University, College Station, Texas, USA (2233885)

***14:35 SS 46: Arterial input graphical analysis for receptor
concentration imaging with short acquisition times in
glioma tumors**

Jonathan T. Elliott¹, Scott Davis¹, Kimberley S. Samkoe¹, Jason R. Gunn¹, Brian W. Pogue¹ ¹Thayer School of Engineering, Dartmouth College, Hanover, New Hampshire, USA; ²Department of Surgery, Geisel School of Medicine at Dartmouth, Lebanon, New Hampshire, USA (2233909)

**14:55 SS 47: Cherenkov-excited luminescence scanned imaging
(CELSI) for high-resolution, deep-tissue, *in vivo* optical
molecular imaging**

Rongxiao Zhang¹, Alisha V. DSouza⁴, Jason R. Gunn³, Tatiana V. Espipova², Sergei A. Vinogradov², Adam K. Glaser⁴, Lesley A. Jarvis³, David J. Gladstone³, Brian W. Pogue⁴ ¹Physics and Astronomy, Dartmouth College, Hanover, New Hampshire, USA; ²Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, USA; ³Dartmouth-Hitchcock Medical Center, Dartmouth College, Hanover, New Hampshire, USA; ⁴Thayer School of Engineering, Dartmouth College, Hanover, New Hampshire, USA (2231326)

**15:05 SS 48: Quantitative Whole Mouse Stem Cell Imaging with
Single Cell Sensitivity using Cryo-imaging**

Patiwet Wuttisarnwattana¹, Madhusudhana Gargasha³, Wouter J. van't Hof⁴, Kenneth R. Cooke⁵, David M. Wilson¹ ¹Biomedical Engineering, Case Western Reserve University, Cleveland, Ohio, USA; ²Radiology, University Hospitals of Cleveland, Cleveland, Ohio, USA; ³BioInVision, Inc., Mayfield Village, Ohio, USA; ⁴Cell Processing Facility, Cleveland Cord Blood Center, Cleveland, Ohio, USA; ⁵Division of Pediatric Oncology, Johns Hopkins University, Baltimore, Maryland, USA (2234146)

* Denotes highlight lecture

Scientific Session 07**13:45-15:15 Chemistry & Imaging Probes - Multimodal (Room 312)***Moderators: Barry Edwards and A. Sherry****13:45 SS 49: Modulation of nanoparticle targeting by surface-switching technology**

Francois Fay¹, Line Hansen², Stefanie J. Hectors³, Jun Tang¹, Anita Gianella¹, Brenda Sachez-Gaytan¹, Yiming Zhao¹, Aneta J. Mieszawska¹, Robert Langer⁵, Claudia Calcagno¹, Gustav Strijkers³, Zahi A. Fayad¹, Willem J. Mulder¹ ¹Translational and Molecular Imaging Institute, Icahn School of Medicine at Mount Sinai, New York, New York, USA; ²Interdisciplinary Nanoscience Center, Aarhus University, Aarhus, Denmark; ³Biomedical NMR, Department of Biomedical Engineering, Eindhoven University of Technology, Eindhoven, Netherlands; ⁴Department of Vascular Medicine, Academic Medical Center, Amsterdam, Netherlands; ⁵Department of Chemical Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA (2231567)

14:05 SS 50: Site specific release of enzymatically sensitized liposomal-nanocarriers through remote activation by alternating magnetic field.

Tuula Peñate Medina¹, Nicolai Purcz³, Jana Damm¹, Robert Tower², Olga M. Will¹, Mirko Gerle³, Arndt Rohwedder¹, Holger Kalthoff⁴, Claus C. Glüer¹, Oula Penate-Medina¹ ¹Radiology, Christian-Albrechts-Universität zu Kiel, Kiel, Germany; ²University Hospital Schleswig-Holstein, Kiel, Germany; ³University Hospital Schleswig-Holstein, Campus Kiel, Germany, Kiel, Germany; ⁴Division of Molecular Oncology, Institute for Experimental Cancer Research, University of Kiel, Kiel, Germany, Kiel, Germany (2232943)

14:15 SS 51: Sortase-mediated site-specific labeling of Nanobodies: a generic method for multiple imaging modalities

Sam Massa¹, Niravkumar Vikani², Santina Gorsen¹, Saskia Vanderhaegen⁵, Jan Steyaert⁵, Christian Bartz⁴, Cecilia Betti⁴, Steven Ballet⁴, Anton Bunschoten⁷, Fijs van Leeuwen⁷, Benedicte Descamps⁸, Christian Vanhove⁸, Vicky Caveliers¹, Tony Lahoutte¹, Sophie Hernot¹, Serge Muyldermans², Catarina Xavier¹, Nick Devoogdt¹ ¹In vivo Cellular and Molecular Imaging laboratory, Vrije Universiteit Brussel, Brussels, Belgium; ²Laboratory of Cellular and Molecular Immunology, Vrije Universiteit Brussel, Brussels, Belgium; ³Structural Biology Research Center, VIB, Brussels, Belgium; ⁴Laboratory of Organic Chemistry, Vrije Universiteit Brussel, Brussels, Belgium; ⁵Structural Biology Brussels, Vrije Universiteit Brussel, Brussels, Belgium; ⁶Nuclear Medicine Department, Universitair Ziekenhuis Brussel, Brussels, Belgium; ⁷Interventional Molecular Imaging Laboratory, Department of Radiology, Leiden University Medical Center, Leiden, Netherlands; ⁸Infinity-MEDISIP-iMinds Medical IT, Department of Electronics and Information Systems, Ghent University, Ghent, Belgium (2228393)

14:25 SS 52: Near infrared quantum dot and ⁸⁹Zr dual-labeled nanoparticles for in vivo Cerenkov imaging

Yiming Zhao¹, Travis Shaffer³, Carlos Perez Medina⁴, Sudeep Das², Willem J. Mulder¹, Jan Grimm³ ¹Translational and Molecular Imaging Institute, Icahn School of Medicine at Mount Sinai, New York, New York, USA; ²Molecular Pharmacology and Chemistry Program/Radiology, MSKCC, New York, New York, USA; ³Radiology, Memorial Sloan Kettering Cancer Center, New York, New York, USA; ⁴Radiology, Mount Sinai, New York, New York, USA (2229231)

14:35 SS 53: Modular Synthesis of Peptide-based Single and Multi-modal Targeted Molecular Imaging Agents

Hans F. Schmitthenner¹, Taylor M. Barrett¹, Stephanie Beach¹, Lauren Heese¹, Chelsea J. Weidman¹, Anne M. Sweeny-Jones¹, Amy E. Becker², Joseph P. Hornak¹, Henry Ophardt³, Irene Evans³ ¹Chemistry and Materials Science, Rochester Institute of Technology, Rochester, New York, USA; ²Center for Imaging Science, Rochester Institute of Technology, Rochester, New York, USA; ³School of Life Sciences, Rochester Institute of Technology, Rochester, New York, USA (2232035)

** Denotes highlight lecture*

Thursday September 3 (continued)

- 14:45 SS 54: Phosphate-based inorganic-organic hybrid nanoparticles with high potential for simultaneous treatment and diagnostics of inflammatory disease.**
Joanna Napp¹, Joachim G. Heck³, Holger M. R⁴, Claus Feldmann³, Frauke Alves¹ ¹Molecular Biology of Neuronal Signals, MPI for Experimental Medicine, Goettingen, Germany; ²Department of Hematology and Medical Oncology, University Medical Center Göttingen, Goettingen, Germany; ³ Institute for Inorganic Chemistry, KIT, Karlsruhe Institute of Technology, Karlsruhe, Germany; ⁴Cellular and Molecular Immunology, University of Göttingen Medical School, Goettingen, Germany (2232843)
- 14:55 SS 55: Radiofluorinated PARPi-FL as PET/Optical tool for Glioblastoma imaging Giuseppe Carlucci¹, Brandon Carney¹, Christian Brand¹, Edmund J. Keliher³, Wolfgang A. Weber^{1,2}, Thomas Reiner^{1,2}** ¹ Memorial Sloan Kettering Cancer Center, New York, New York 10065, United States, ² Weill Cornell Medical College, New York, New York 10065, United States, ³ Center for Systems Biology, Massachusetts General Hospital, Boston, Massachusetts 02114, United States
Giuseppe Carlucci¹, Brandon Carney¹, Christian Brand², Edmund J. Keliher⁵, Wolfgang Weber³, Thomas Reiner⁴ ¹Memorial Sloan Kettering Cancer Center, New York, New York, USA; ²Massachusetts General Hospital, Boston, Massachusetts, USA (2233910)
- 15:05 SS 56: Melanin-coated magnetic nanoparticles for multimodality imaging guided photothermal therapy**
Hao Hu¹, Peng Huang², Kaichun Wu¹, Xiaoyuan Chen² ¹Xijing Hospital of Digestive Disease, Fourth Military Medical University, Xi'an, Shaanxi, China; ²National Institute of Biomedical Imaging and Bioengineering, National Institutes of Health, Bethesda, Maryland, USA (2243525)
- 14:05 SS 59: B7-H3, a Novel Target for Breast Cancer Detection Using Ultrasound Molecular Imaging**
Sunitha Bachawal¹, Kristin C. Jensen⁴, Katherine E. Wilson¹, Lu Tian², Amelie Lutz¹, Juergen K. Willmann³ ¹Radiology/MIPS, Stanford University, School of medicine, Stanford, California, USA; ²Health Research and Policy, Stanford University, Stanford, California, USA; ⁴Pathology, Stanford University, Stanford, California, USA; ⁵Veterans Affairs Palo Alto Health Care System, Stanford University, Palo Alto, California, USA (2233450)
- *14:15 SS 60: Nanosponges as Activatable Magnetic Resonance Imaging Contrast Agents and Stimuli-responsive Chemotherapeutic Vehicles**
Charalambos Kaittanis Memorial Sloan Kettering Cancer Center, New York, New York, USA (2231388)
- 14:35 SS 61: Image-guided focused ultrasound ablation enhances drug accumulation and modulates immune cell profiles in a murine breast cancer model**
Elizabeth S. Ingham¹, Andrew Wong¹, Annie Mirsoian², Gail D. Sckisel², Katherine D. Watson¹, Yu Liu¹, Brett Fite¹, Lisa M. Mahakian¹, Sarah M. Tam¹, Jai Woong Seo¹, Azadeh Kheiroloomoom¹, William J. Murphy², Katherine Ferrara¹ ¹Biomedical Engineering, University of California, Davis, Sacramento, California, USA; ²Dermatology, University of California, Davis, Sacramento, California, USA (2230916)
- 14:45 SS 62: An EDB Fibronectin Targeting MRI Contrast Agent for Molecular MRI of Breast Cancer Micrometastases**
Zheng Han, Zhuxian Zhou, Zhengrong Lu Biomedical Engineering, Case Western Reserve University, Cleveland, Ohio, USA (2232280)
- 14:55 SS 63: Early time point *in vivo* PET/MR is a promising biomarker for determining efficacy of a novel Db(α EGFR)-scTRAIL fusion protein therapy in a colon cancer model**
Mathew R. Divine¹, Maren Harant¹, Prateek Katiyar¹, Jonathan A. Disselhorst¹, Daniel Bukala¹, Sandro Aidone¹, Martin Siegemund², Klaus Pfizenmaier², Roland Kontermann², Bernd J. Pichler¹ ¹Department of Preclinical Imaging and Radiopharmacy, Werner Siemens Imaging Center, Eberhard Karls University Tübingen, Tübingen, Baden Württemberg, Germany; ²University of Stuttgart, Stuttgart, Germany (2233813)

Scientific Session 08

13:45-15:15 Preclinical *in vivo* Studies - Oncology: MRI/Ultrasound (Room 313 A/B/C)

Moderators: Chrit Moonen and Mark Pagel

- 13:45 SS 57: Magnetic Resonance Imaging of the Intracellular/ Extracellular pH Gradient in Glioma**
Heeseung Lim¹, Mohammed Albatany¹, Francisco M. Martinez-Santesteban¹, Robert Bartha¹, Timothy J. Scholl¹ ¹Medical Biophysics, Western University, London, Ontario, Canada; ²Robarts Research Institute, Western University, London, Ontario, Canada (2232414)
- 13:55 SS 58: Early Glioblastoma Multiforme Detection through Imaging Deoxyhemoglobin Biomarkers by Active Feedback Magnetic Resonance Molecular Imaging**
Zhao Li, Chao-Hsiung Hsu, Yung-Ya Lin Chemistry and Biochemistry, UCLA, Los Angeles, California, USA (2233787)
- 15:05 SS 64: Towards Distinguishing Brain Tumor vs. Radiation Necrosis via O₂-Sensitive MRI**
Scott C. Beeman¹, Ying-Bo Shui⁴, Carlos J. Perez-Torres¹, John A. Engelbach¹, Joseph J. Ackerman¹, Joel R. Garbow¹ ¹Department of Radiology, Washington University, Saint Louis, Missouri, USA; ²Department of Chemistry, Washington University, Saint Louis, Missouri, USA; ³Alvin J. Siteman Cancer Center, Washington University, Saint Louis, Missouri, USA; ⁴Department of Ophthalmology, Washington University, Saint Louis, Missouri, USA (2233393)

* Denotes highlight lecture

Scientific Session 09

13:45-15:15 Preclinical in vivo Studies - Inflammation/ Immunology (Room 314)

Moderators: Catherine Foss and Mary Rusckowski

13:45 SS 65: Graft-versus-host Disease Suppression by Mesenchymal Stem Cells as Determined by Cryo-imaging
David M. Wilson¹, Patiwet Wuttisarnwattana¹, Kenneth R. Cooke² ¹Biomedical Engineering, Case Western Reserve University, Cleveland, Ohio, USA; ²Division of Pediatric Oncology, Johns Hopkins University, Baltimore, Maryland, USA; ³Radiology, University Hospitals of Cleveland, Cleveland, Ohio, USA (2234199)

***13:55 SS 66: Imaging B cells in a mouse model of multiple sclerosis using [⁶⁴Cu]Rituximab-PET**
Michelle L. James¹, Aileen Hoehne¹, Arutselvan Natarajan¹, Gayatri Gowrishankar¹, Di-Son Nguyen¹, Sudeep Chandra², Sanjiv S. Gambhir¹ ¹Radiology, Stanford University, Stanford, California, USA; ²Clinical and Translational Imaging, Novartis Institute of Biomedical Research, Cambridge, Massachusetts, USA (2234356)

14:05 SS 67: Ultrasound Molecular Imaging using P- and E-selectin targeted microbubbles in a murine model of chronic inflammatory bowel disease with inducible acute inflammation.
Steven Machtaler², Ferdinand Knieling², Richard Luong³, Thierry Bettinger¹, Lu Tian³, Juergen K. Willmann⁴ ¹Research, Bracco Suisse SA, Geneva, Switzerland; ²Radiology, Stanford, Stanford, California, USA; ³Stanford, Stanford, California, USA (2231589)

14:15 SS 68: In vivo optical imaging of the regulatory dynamics of reactive oxygen species-stress and NF-kB-activation during delayed type hypersensitivity reactions
Johannes Schwenck², Wolfgang M. Thaiss², Barbara F. Schörg², Kerstin Fuchs⁴, Christoph Griessinger², Natalie Mucha², Daniel Bukala², Jürgen Brück⁵, Harald Carlsen⁶, Martin Röcken⁵, Bernd J. Pichler², Manfred Kneilling⁴ ¹Department of Nuclear Medicine, Eberhard Karls University Tübingen, Tübingen, Germany; ²Werner Siemens Imaging Center, Department of Preclinical Imaging and Radiopharmacy, Eberhard Karls University Tübingen, Tübingen, Germany; ³Department of Diagnostic and Interventional Radiology, Eberhard Karls University Tübingen, Tübingen, Germany; ⁴Department of Dermatology, Eberhard Karls University Tübingen, Tübingen, Germany; ⁵Department of Chemistry, Biotechnology and Food Science, Norwegian University of Life Sciences, Ås, Norway (2231698)

14:25 SS 69: Detection of anti-PD-L1 responders using anti-CD8 immunoPET in a mouse model of colon carcinoma.
Richard Tavaré¹, Helena Escuin-Ordinas³, Melissa N. McCracken², Kirstin A. Zettlitz¹, Felix B. Salazar¹, Owen N. Witte⁴, Antoni Ribas³, Anna M. Wu¹ ¹Crump Institute for Molecular Imaging, UCLA, Los Angeles, California, USA; ²Molecular & Medical Pharmacology, UCLA, Los Angeles, California, USA; ³Department of Medicine, Division of Hematology-Oncology, UCLA, Los Angeles, California, USA; ⁴Howard Hughes Medical Institute, UCLA, Los Angeles, California, USA (2231993)

14:35 SS 70: Ultrasound Molecular Imaging of Inflammation in a Porcine Acute Terminal Ileitis Model
Huaijun Wang¹, Stephen Felt², Steven Machtaler¹, Ismayil Guracar³, Thierry Bettinger⁴, Lu Tian⁵, Juergen K. Willmann¹ ¹Department of Radiology, Molecular Imaging Program at Stanford, Stanford University, School of Medicine, Stanford, California, USA; ²Department of Comparative Medicine, Stanford University, Stanford, California, USA; ³Siemens Healthcare, Ultrasound Business Unit, Mountain View, California, USA; ⁴Bracco Suisse SA, Geneva, Switzerland; ⁵Department of Health, Research & Policy, Stanford University, Stanford, California, USA (2230721)

***14:45 SS 71: Evaluation of CD4+ Cell Recovery In Vivo Using Single-Photon Emission Computed Tomography in Real Time Following CD34+ Cell Transplantation in Rhesus Macaques.**
Robert Donahue¹, Sharat Srinivasula³, Naoya Uchida², Insook Kim⁴, Alexis St. Claire⁵, Gorka Duralde⁵, Paula DeGrange⁶, Marisa St. Claire⁶, Richard Reba⁷, Aylin Bonifacino¹, Allen Krouse¹, Mark Metzger¹, Chang Paik⁸, Clifford Lane⁹, John Tisdale², Michele Di Mascio⁵ ¹Hematology Branch, NHLBI, NIH, Bethesda, Maryland, USA; ²Molecular and Clinical Hematology Branch, NHLBI, NIH, Bethesda, Maryland, USA; ³Biostatistics Research Branch, Leidos Biomedical Research, Inc., FNLCR, Frederick, Maryland, USA; ⁴Applied/Developmental Research Directorate, Frederick National Laboratory, Frederick, Maryland, USA; ⁵Division of Clinical Research, NIAID, NIH, Bethesda, Maryland, USA; ⁶Integrated Research Facility, NIAID, NIH, Frederick, Maryland, USA; ⁷Center for Infectious Disease Imaging, Radiology and Imaging Sciences, CC, NIH, Bethesda, Maryland, USA; ⁸Radiopharmaceutical Laboratory, Nuclear Medicine, Radiology and Imaging Sciences, Clinical Center, NIH, Bethesda, Maryland, USA; ⁹Laboratory of Immunoregulation, NIAID, NIH, Bethesda, Maryland, USA (2224746)

* Denotes highlight lecture

Thursday September 3 (continued)

14:55 SS 72: In vivo vasculogenesis and fibrosis imaging defines the effect of PTH on calvarial bone allografts

Wafa Tawackoli¹, Doron C. Yakubovich¹, Dmitriy Sheyn¹, Xiaoyu Da², Gadi Pelled¹, Dan Gazit¹, Zulma Gazit¹
¹Surgery, Cedars-Sinai Medical Center, Los Angeles, California, USA; ²Biomedical Imaging Research Institute, Cedars-Sinai Medical Center, Los Angeles, California, USA; ³Board of Governors Regenerative Medicine Institute, Cedars-Sinai Medical Center, Los Angeles, California, USA (2233384)

15:05 SS 73: In vitro evaluation of a novel ¹⁸F-labelled P2X₇ receptor antagonist for an improved PET detection of neuroinflammation

Enrico R. Fantoni¹, Bobbi Fleiss⁴, Simon Lovestone², Antony Gee¹
¹Division of Imaging Sciences and Biomedical Engineering, King's College London, London, United Kingdom; ²Department of Psychiatry, University of Oxford, Oxford, United Kingdom; ³Institut national de la santé et de la recherche médicale (INSERM), Paris, France; ⁴Department of Perinatal Imaging and Health, Division of Imaging Sciences and Biomedical Engineering, King's College London, London, United Kingdom (2232185)

Scientific Session 10

13:45-15:15 Preclinical in vivo Studies - Neurology (Room 315)

Moderators: Mikhail Shapiro and Adrienne Dula

13:45 SS 74: Basal dopamine occupancy estimation with simultaneous PET/fMRI

Christin Y. Sander¹, Jacob M. Hooker¹, Ciprian Catana¹, Bruce R. Rosen¹, Joseph B. Mandeville¹
¹A. A. Martinos Center for Biomedical Imaging, Department of Radiology, Massachusetts General Hospital, Charlestown, Massachusetts, USA; ²Harvard Medical School, Boston, Massachusetts, USA (2231606)

13:55 SS 75: Long-term MR tracking and stereological quantification of ferumoxytol labeled human neural progenitor cells transplanted into the porcine spinal cord

Jason J. Lamanna¹, Juanmarco Gutierrez¹, Lindsey N. Urquia¹, Elman Amador¹, Thais Federici¹, John N. Oshinski³, Nicholas M. Boulis¹
¹Neurosurgery, Emory University, Atlanta, Georgia, USA; ²Biomedical Engineering, Georgia Institute of Technology, Atlanta, Georgia, USA; ³Radiology and Imaging Sciences, Emory University, Atlanta, Georgia, USA (2223815)

***14:05 SS 76: The complementary nature of functional and metabolic connectivity assessed by simultaneous PET/MR in rats**

André Thielcke¹, Mario Amend¹, Bharat Biswal², Bernd J. Pichler¹, Hans F. Wehr¹
¹Department of Preclinical Imaging and Radiopharmacy, University of Tuebingen, Tuebingen, Germany; ²Department of Biomedical Engineering, New Jersey Institute of Technology, Newark, New Jersey, USA (2234403)

14:25 SS 77: Assessment of brain tissue damage in the Sub-Acute Stroke Region by Multiparametric Imaging using [89-Zr]-Desferal-EPO-PET/MRI.

Salvador G. Castaneda¹, Prateek Katiyar¹, Francesca Russo², Jonathan A. Disselhorst¹, Carsten Calaminus¹, Sven Poli², Andreas Maurer¹, Ulf Ziemann², Bernd J. Pichler¹
¹Werner Siemens Imaging Center, Department of Preclinical Imaging and Radiopharmacy, Eberhard Karls University Tuebingen, Tuebingen, Baden-Wuerttemberg, Germany; ²Department for Neurology, Hertie Institute for Clinical Brain Research, University Clinic Tuebingen, Tuebingen, Germany (2231554)

14:35 SS 78: Diffusion kurtosis imaging and white matter modeling improves the characterization of white and grey matter pathology following demyelination and remyelination

Caroline Guglielmetti², Jelle Veraart¹, Ella Roelant³, Zhenhua Mai², Jasmijn Daans⁴, Johan van Audekerke², Maarten Naeyaert², Greetje Vanhoutte², Rafael Delgado y Palacios², Jelle Praet², Els Fieremans⁵, Peter Ponsaerts⁴, Jan Sijbers¹, Annemie Van Der Linden², Marleen Verhoye²
¹Department of Physics, University of Antwerp, iMinds Vision Lab, Antwerpen, Belgium; ²Department Pharmaceutical, Veterinary and Biomedical Sciences - University of Antwerp, Bio-Imaging Lab, Antwerpen, Belgium; ³University of Antwerp, StatUa Center for Statistics, Antwerpen, Belgium; ⁴University of Antwerp, Experimental Cell Transplantation Group, Laboratory of Experimental Hematology, Vaccine and Infectious Disease Institute (Vaxinfectio), Antwerpen, Belgium; ⁵NYU School of Medicine, New York, New York, USA (2232626)

14:45 SS 79: Small Animal PET Imaging of Striatal and Cortical Targets in the zQ175 Mouse Model of Huntingtons Disease

Jenny Häggkvist¹, Miklós Tóth¹, Lenke Tari¹, Katarina Varnäs¹, Celia Dominguez², Ignacio Munoz-Sanjuan², Andrea Varrone¹, Christer Hallidin¹, Ladislav Mrzljak³
¹Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden; ²CHDI Management/CHDI Foundation Inc., Los Angeles, California, USA; ³CHDI Management/CHDI Foundation Inc., Princeton, New Jersey, USA (2232949)

14:55 SS 80: Pharmacologically-induced epileptic seizures involve focal, but not global rCBF-changes – relationship of activated brain clusters and GABA_A-R density assessed with combined [¹⁵O]H₂O-PET- and [¹¹C]flumazenil-PET/MRI

Florian C. Maier, Maren Harant, Walter Ehrlichmann, Bernd J. Pichler
 Department of Preclinical Imaging and Radiopharmacy, Eberhard Karls University Tuebingen, Tuebingen, Germany (2231611)

* Denotes highlight lecture

15:05 SS 81: Surgical Navigation in Real-Time Using Multimodality Optical Tools for Improved Resection and In Vivo Pathology of Medulloblastoma

Stephan Rogalla¹, Simone M. Haag¹, Cristina L. Zavaleta⁴, Nathan O. Loewke¹, Michael J. Mandella¹, Kristina Oresic Bender⁵, Matthew Bogyo⁵, Christopher H. Contag² ¹Pediatrics and Neonatology, Stanford University, Stanford, California, USA; ²Pediatrics, Stanford University, Stanford, California, USA; ³Molecular Imaging Program at Stanford (MIPS), Stanford University, Stanford, California, USA; ⁴Radiology, Stanford University, Stanford, California, USA; ⁵Pathology, Stanford University, Stanford, California, USA (2234392)

Late-breaking Abstract Session 2
13:45-15:15 Late-breaking Abstracts (ROOM 320 (EMALANI THEATRE))

Moderators: Christopher Contag and Fabian Kiessling

13:45 LBA 10: Measurement of lactate production and efflux using hyperpolarized ¹³C MR

Renuka Sriram¹, Mark VanCrickinge¹, Ailin Hansen², Bertram Koelsch¹, Jeremy W. Gordon¹, Celine Baligand¹, Robert Bok¹, Daniel Vigneron¹, David M. Wilson¹, Peder E. Larson¹, Kayvan R. Keshari³, Jane Wang¹, John Kurhanewicz¹ ¹UCSF, San Francisco, California, USA; ²NTNU, Trondheim, Norway; ³MSKCC, New York, New York, USA (2321434)

13:55 LBA 11: ^{52g}Mn – a new PET tracer for preclinical *in vivo* neuroimaging

Hanna Napieczynska³, Gregory W. Severin², Jesper Fonslet², Bernd J. Pichler³, Carsten Calaminus³ ¹International Max Planck Research School for Cognitive and Systems Neuroscience, Tuebingen, Germany; ²Center for Nuclear Technologies, Technical University of Denmark, Roskilde, Denmark; ³Department of Preclinical Imaging and Radiopharmacy, University of Tuebingen, Tuebingen, Germany (2320209)

14:05 LBA 12: Imaging the effect of molecular size on tumour perfusion of biomolecules by dynamic PET in a mouse model of glioblastoma

Simon Puttick¹, Brett W. Stringer², Bryan W. Day², Andrew W. Boyd², Andrew Whittaker¹, Christopher Howard¹, Stephen Mahler¹, Michael Fay⁵, Nicholas Dowson⁶, Stephen Rose⁶ ¹Australian Institute for Bioengineering and Nanotechnology, The University of Queensland, St Lucia, Queensland, Australia; ²Clive Berghofer Queensland Institute for Medical Research, Herston, Queensland, Australia; ³Queensland Node, ARC Centre of Excellence in Convergent Bio-Nano Science and Technology, St Lucia, Queensland, Australia; ⁴School of Medicine, The University of Queensland, Herston, Queensland, Australia; ⁵Lake Macquarie Private Hospital, Genesis Cancer Care, Gateshead, New South Wales, Australia; ⁶The Australian e-Health Research Centre, CSIRO, Herston, Queensland, Australia (2326130)

14:15 LBA 13: MRI Virtual Biopsy and Treatment of Brain Metastatic Tumors with Targeted Nanobioconjugates

Julia Y. Ljubimova, Rameshwar Patil, Keith L. Black, Eggehard Holler Cedars-Sinai Medical Center, Los Angeles, California, USA (2319534)

14:25 LBA 14: ImmunoPET Imaging of Pancreatic Cancer in a Murine Organoid Model

Dalya Abdel-Atti¹, Ryan M. Lanning², Jacob Houghton¹, Dannielle Engle³, Ritsuko Sawada⁴, Jeanne Quinn¹, Wolfgang W. Scholz⁴, David Tuveson³, Jason S. Lewis¹ ¹Radiology, Memorial Sloan Kettering Cancer Center, New York, New York, USA; ²Radiation Oncology, Memorial Sloan Kettering Cancer Center, New York, New York, USA; ³Cold Spring Harbor Laboratories, Cold Spring Harbor, New York, USA; ⁴MabVax Therapeutics, San Diego, California, USA (2328138)

14:35 LBA 15: Riboflavin amphiphiles for tumor-targeted theranostic nanomedicines

Nataliia Beztsinna¹, Tsvetkova Yoanna², Boutayna Frih³, Twan Lammers², Fabian Kiessling², Isabelle Bestel¹ ¹CBMN - Institute of Chemistry&Biology of Membranes&Nanoobjects, University of Bordeaux, Pessac, France; ²Experimental Molecular Imaging, University of Aachen (RWTH), Aachen, Germany; ³Centre de Génomique Fonctionnelle de Bordeaux (CGFB), University of Bordeaux, Bordeaux, France (2319940)

14:45 LBA 16: A novel genetic method to measure the receptor-specific component of PET radioligand binding in human brain without pharmacological blockade

Paolo Zanotti Fregonara², Mattia Veronese¹, Rong Xu², Sami S. Zoghbi², Jeih-San Liow², Masahiro Fujita², Victor Pike², Robert Innis² ¹King's College, London, United Kingdom; ²MIB/NIMH, Bethesda, Maryland, USA (2325145)

* Denotes highlight lecture

Thursday September 3 (continued)

14:55 LBA 17: MULTIMODAL OPTICAL IMAGING OF THE EFFECT OF SONOPORATION ON THE TUMOR ACCUMULATION AND PENETRATION OF LIPOSOMES

Twan Lammers¹, Benjamin Theek¹, Maike Baues¹, Gert Storm², Fabian Kiessling¹ ¹RWTH Aachen, Aachen, Germany; ²Utrecht University, Utrecht, Netherlands (2324774)

15:05 LBA 18: Hyperpolarized ¹³C MR metabolic imaging can detect neuroinflammation *in vivo* in a preclinical model of Multiple Sclerosis

Caroline Guglielmetti¹, Chloe Najac¹, Annemie Van Der Linden², Sabrina M. Ronen¹, Myriam M. Chaumeil¹ ¹Department of Radiology and Biomedical Imaging, University of California, San Francisco, Surbeck Laboratory of Advanced Imaging, San Francisco, California, USA; ²Department Pharmaceutical, Veterinary and Biomedical Sciences - University of Antwerp, Bio-Imaging Lab, Antwerpen, Belgium; ³University of California, San Francisco, Brain Tumor Research Center, San Francisco, California, USA (2328152)

15:15-16:00 Coffee Break & Visit Exhibits
(KAMEHAMEHA EXHIBIT HALL 2 & 3)

Plenary Session 3

16:00-17:00 Plenary Session 3: Chien Ho (KALAKAUA BALLROOM B&C) (ROOM KALAKAUA BALLROOM B&C)
Moderators: Paula Foster and Brian Ross

16:00 PLS 3: How Improvements in *In-vivo* Cell Labeling by MRI Contrast Agents May Lead to Better Drug Delivery
Chien Ho Biological Sciences, Carnegie Mellon University, Pittsburgh, Pennsylvania, USA (2288979)

Poster Session 2

17:00 -18:00 Poster Session 2 and Late Breaking Abstract Posters
General Abstract Submissions
(KAMEHAMEHA EXHIBIT HALL 2 & 3)

Odd Numbers will be presented during the first 30 minutes of the session and even numbers during the second 30 minutes. For a complete list of individual abstracts, refer to pages 73-100

General Abstract Submissions

Preclinical Cell & Tissue Level Studies:

- Cardiology, Cells (Stem/Immune)
- Infectious Disease, Inflammation/Immunology
- Neurology
- Oncology

- Reporter Genes, Signal Transduction & Epigenetics

Late Breaking Abstract Submissions

Chemistry & Imaging Probes

- MRI
- Multimodal, Nuclear Imaging
- Optical Imaging

First-in-Human & Clinical Studies

- Cardiology
- Neurology
- Oncology

Preclinical Cell & Tissue Level Studies:

- Cells (Stems/Immune)
- Infectious Disease
- Inflammation/Immunology
- Neurology
- Oncology

Preclinical *in vivo* Studies:

- Infectious Disease
- Inflammation/Immunology
- Metabolic Disease
- Neurology
- Oncology

Technology & Software Developments:

- Clinical PET/SPECT
- CT
- Hybrid Multimodality
- MRI
- Optical Imaging
- Photo-Acoustic Imaging
- Preclinical PET/SPECT
- Systems Biology

* Denotes highlight lecture



Friday September 4

Room	311	312	313 A/B/C	314	315
08:00 - 09:30	Industry Workshop: PerkinElmer	Spotlight Session 5: Translational Frontiers in Ultrasound Imaging & Therapy	Spotlight Session 6: Molecular Imaging Based Companion Diagnostics	Spotlight Session 7: Men's Health	Spotlight Session 8: Animal Model Systems for Co-Clinical Trials
09:30 - 10:30	Plenary Session 4: Gold Medalist - Vasilis Ntziachristos (Kalakaua Ballroom B&C)				
10:30 - 11:15	Coffee Break, Visit Exhibits & Innovation of the Year Presentation/Voting/Award				
11:15 - 12:45	Scientific Session 11: First-in- Human & Clinical Studies	Scientific Session 12: Chemistry & Imaging Probes - Optical Imaging	Scientific Session 13: Preclinical in vivo Studies - Oncology: Optical	Scientific Session 14: Preclinical in vivo Studies - Cardiology	Scientific Session 15: Chemistry & Imaging Probes - Nuclear Imaging
12:45 - 13:45	Lunch Break in Exhibit Hall (Sponsored by Aspect Imaging)				
13:45 - 15:15	Scientific Session 16: Technology & Software Developments - Hybrid Multimodal/Ultrasound/CT	Scientific Session 17: Chemistry & Imaging Probes - Ultrasound	Scientific Session 18: Preclinical in vivo Studies - Oncology: Nuclear	Scientific Session 19: Preclinical in vivo Studies - Infectious Disease/Reporter Genes, Signal Transduction & Epigenetics	Scientific Session 20: Preclinical in vivo Studies - Metabolic Diseases
15:15 - 16:00	Coffee Break & Visit Exhibits				
16:00 - 17:00	Plenary Session 5: Jon-Kar Zubieta (Kalakaua Ballroom B&C)				
17:00 - 18:30	Fellow's Forum Panel				
18:30 - 19:30	Poster Session 3 & Fellows Meet & Greet Reception (Exhibit Hall 2 & 3)				

Friday September 4 (continued)

Industry Workshop

08:00-09:30 **PerkinElmer** (Room 311)

Spotlight Session 05

08:00-09:30 **Translational Frontiers in Ultrasound Imaging & Therapy** (Room 312)

Moderators: Charles Caskey and Chrit Moonen

08:00 **SPS 22: Molecular Imaging with Ultrasound: Pathway towards Clinical Translation**

Juergen K. Willmann Radiology, Stanford, Stanford, California, USA (2288051)

08:30 **SPS 23: Sonoporation: Unfounded Concept or True Clinical Potential?**

Spiros Kotopoulos¹, Michiel Postema⁴, Odd H. Gilja¹, Bjørn Tore Gjertsen², Georg Dimceviski¹, Emmet Mc Cormack² ¹National Centre for Ultrasound in Gastroenterology, Haukeland University Hospital, Bergen, Norway; ²Department of Clinical Science, University of Bergen, Bergen, Norway; ³Department of Clinical Medicine, University of Bergen, Bergen, Norway; ⁴Department of Physics and Technology, University of Bergen, Bergen, Norway (2343652)

09:00 **SPS 24: Focused ultrasound as a new mode of non-invasive brain stimulation**

Seung-Schik Yoo Radiology, Harvard Medical School, Brookline, Massachusetts, USA (2287279)

Spotlight Session 06

08:00-09:30 **Molecular Imaging Based Companion Diagnostics** (Room 313 A/B/C)

Moderators: Susanta Sarkar and Hyunsuk Shim

08:00 **SPS 25: Imaging based Companion Diagnostic: An Introduction**

Susanta K. Sarkar CadenzaMed LLC, Cambridge, Massachusetts, USA (2307801)

08:15 **SPS 26: Development of small molecule companion diagnostics targeting CXCR4 chemokine receptor**

Hyunsuk Shim Emory University, Atlanta, Georgia, USA (2289086)

08:40 **SPS 27: Affibody Molecules for Molecular Imaging Based Companion Diagnostics**

Joachim Feldwisch¹ ¹Affibody AB, Solna, Sweden; ²Biomedical Radiation Sciences, Rudbeck Laboratory, Department of Radiology, Oncology, and Radiation Sciences, Uppsala University, Uppsala, Sweden (2307477)

09:05 **SPS 28: Companion Diagnostics/Tracer development: Clinical studies**

Wolfgang Weber Radiology, MSKCC, New York, New York, USA (2290678)

Spotlight Session 07

08:00-09:30 **Men's Health** (Room 314)

Moderators: Anthony Shields and James Basilion

08:00 **SPS 29: Cardiovascular Disease in Men - The Role of Molecular Imaging**

David E. Sosnovik Medicine, Massachusetts General Hospital, Harvard Medical School, Charlestown, Massachusetts, USA (2324242)

08:30 **SPS 30: New Molecular Imaging Agents for the Detection and Characterization of Prostate Cancer.**

Steven Rowe Radiology, Johns Hopkins, Parkville, Maryland, USA (2308208)

09:00 **SPS 31: State-of-the-Art Clinical Imaging of Prostate Cancer**

Hebert Alberto Vargas Radiology, Memorial Sloan Kettering Cancer Center, New York, New York, USA (2309596)

Spotlight Session 08

08:00-09:30 **Animal Model Systems for Co-Clinical Trials** (Room 315)

Moderators: Alexei Bogdanov and Cheryl Marks

08:00 **SPS 32: Co-clinical trials in mouse models of BRCA-associated breast cancer**

Jos Jonkers Division of Molecular Pathology, Netherlands Cancer institute, Amsterdam, Netherlands (2343018)

08:45 **SPS 33: Therapeutic Studies in Genetically Engineered Mouse Models of Lung Cancer**

Katerina Politi Yale University, New Haven, Connecticut, USA (2309574)

Plenary Session 4

09:30-10:30 **Plenary Session 4: Gold Medalist Vasilis Ntziachristos** (KALAKAUA BALLROOM B&C) (ROOM KALAKAUA BALLROOM B&C)

Moderators: Anna Wu and Nerissa Villegas

09:30 **PLS 4: The new era of Optical and Optoacoustic Imaging**

Vasilis Ntziachristos¹ ¹Chair for Biological Imaging, Technische Universität München, Munich, Germany; ²Institute of Biological and Medical Imaging, Helmholtz Zentrum München, Munich-Neuherberg, Germany (2351097)

10:30-11:15 **Coffee Break, Visit Exhibits, Innovation of the Year Presentation/Voting/Award** (KAMEHAMEHA EXHIBIT HALL 2 & 3)

10:30-11:15 **Women in Molecular Imaging Network Leadership Meeting** (Room 317A)

* Denotes highlight lecture

Scientific Session 11

11:15-12:45 First-in-Human & Clinical Studies (Room 311)

Moderators: Katja Pinker-Domenig and Monica Shokeen

- 11:15 SS 82: First-in-human study of a cysteine cathepsins activity-based PET probe**
 Shaobo Yao¹, Hanping Wang², Wenjia Zhu¹, Peilin Wu¹, Jingjing Zhang¹, Chenxi Wu¹, Kai-Feng Xu², Nimali P. Withana³, Matthew Bogyo³, Zhen Cheng⁴, Zhaohui Zhu¹ ¹Department of Nuclear Medicine, Peking Union Medical College Hospital, Chinese Academy of Medical Science & Peking Union Medical College, Beijing, China; ²Department of Respiratory Disease, Peking Union Medical College Hospital, Chinese Academy of Medical Science & Peking Union Medical College, Beijing, China; ³Department of Pathology, Radiology, Microbiology and Immunology, Stanford University School of Medicine, Stanford, California, USA; ⁴Department of Radiology, Stanford University School of Medicine, Stanford, California, USA (2231779)
- *11:25 SS 83: Comparison of specific ⁶⁸Ga-labelled PSMA-ligand and ¹¹C-Choline in the detection of metastasis from primary and recurrent prostate cancer by PET/CT**
 Johannes Schwenck⁴, Hansjoerg Rempp², Gerald Reischl³, Konstantin Nikolaou², Christina Pfannenber², Christian la Fougere⁴ ¹Werner Siemens Imaging Center, Department of Preclinical Imaging and Radiopharmacy, Eberhard Karls University Tübingen, Tübingen, Germany; ²Department of Diagnostic and Interventional Radiology, Eberhard Karls University Tübingen, Tübingen, Germany; ³Department of Preclinical Imaging and Radiopharmacy, Eberhard Karls University Tübingen, Tübingen, Germany; ⁴Department of Nuclear Medicine, Eberhard Karls University Tübingen, Tübingen, Germany (2231721)
- 11:45 SS 84: Detection of human brown adipose tissue activity during cold exposure by magnetic resonance with hyperpolarized ¹²⁹Xe gas.**
 Rosa Tamara Branca¹, Le Zhang³, Alex B. Burant¹, Andrew McCallister¹ ¹Physics and Astronomy, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA; ²Biomedical Research Imaging Center, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA; ³Applied Physical Sciences, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA (2233656)
- 11:55 SS 85: Correlation of ⁶⁸Ga-DOTATATE accumulation in adrenal gland with hormone levels in the patients with Cushing's syndrome**
 Zhen Qiao, Fang Li Department of Nuclear Medicine, Peking Union Medical College Hospital, Beijing, China (2243892)

- 12:05 SS 86: Clinical Study of *ex vivo* Photoacoustic Imaging in Endoscopic Mucosal Resection Tissues**
 Liang Lim¹, F. Stuart Foster², Catherine J. Streutker³, Norman Marcon⁴, Maria Cirocco⁴, Vladimir Iakovlev³, Ralph DaCosta¹, Brian C. Wilson¹ ¹Princess Margaret Cancer Centre, University Health Network, Toronto, Ontario, Canada; ²Sunnybrook Research Institute, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada; ³Surgical Pathology, St. Michael's Hospital, Toronto, Ontario, Canada; ⁴Gastroenterology, St. Michael's Hospital, Toronto, Ontario, Canada (2231377)
- 12:15 SS 87: Prospective Study of ⁶⁸Ga-NOTA-NFB: Radiation Dosimetry in Healthy Volunteers and First Application in Glioma Patients**
 Zhe Wang¹, Mingru Zhang³, Liang Wang⁴, Jing Wang² ¹Nuclear Medicine Department, Xijing Hospital, Fourth Military Medical University, Xi'an, Shaanxi, China; ²Department of nuclear medicine, Xijing hospital, Xi'an, Shaanxi, China; ³the Forth Military Medical University, Xi'an, China; ⁴Department of Neurosurgery,, Tangdu Hospital, Fourth Military Medical University, Xi'an, China (2232810)
- 12:25 SS 88: Fluorescence-guided Surgical Navigation in Patients with Head and Neck Cancer**
 Jason M. Warram², Esther de Boer², Lindsay S. Moore², Cecelia E. Schmalbach², Anthony Morlandt³, William R. Carroll², Joshua S. Richman², Lisa K. Clemons², Kurt R. Zinn⁴, Eben L. Rosenthal¹ ¹Otolaryngology, Stanford University, Stanford, Alabama, USA; ²Surgery, University of Alabama at Birmingham, Birmingham, Alabama, USA; ³Oral & Maxillofacial Surgery, University of Alabama at Birmingham, Birmingham, Alabama, USA; ⁴Radiology, University of Alabama at Birmingham, Birmingham, Alabama, USA (2234103)
- 12:35 SS 89: Theranostic imaging of Yttrium-90 using new solid-state digital photon counting PET detectors**
 Chadwick L. Wright¹, Jun Zhang¹, Katherine Binzel¹, Evan J. Wuthrick², Piotr Maniawski³, Michael V. Knopp¹ ¹Wright Center of Innovation, The Ohio State University, Columbus, Ohio, USA; ²Radiation Oncology, Wexner Medical Center at The Ohio State University, Columbus, Ohio, USA; ³Clinical Science - Nuclear Medicine, Philips Healthcare, Cleveland, Ohio, USA (2234190)

Scientific Session 12

- 11:15-12:45 Chemistry & Imaging Probes - Optical Imaging (Room 312)**
Moderators: Mingfeng Bai and Hisataka Kobayashi
- 11:15 SS 90: Imaging reporter labeled degradable dextran nano-polymer as a COX-2 siRNA carrier for cancer therapy**
 Zhihang Chen, Balaji Krishnamachary, Zaver Bhujwalla Johns Hopkins University, Baltimore, Maryland, USA (2230681)

* Denotes highlight lecture

Friday September 4 (continued)

11:25 SS 91: Spraying Quantum Dot Conjugates for Rapid and Multiplex Cancer Diagnosis Using Endoscopy
 Sungjee Kim¹, Youngrong Park¹, Yeon-Mi Ryu², Yebin Jung¹, Taejun Wang⁴, Yeonggyeong Baek³, Yeoreum Yoon⁵, Sang Mun Bae², Joonhyuck Park¹, Sekyu Hwang¹, Jaeil Kim⁶, Eun-Ju Do², Sang-Yeob Kim², Euiheon Chung⁷, Ki Hean Kim⁴, Seung-Jae Myung² ¹Chemistry, Postech, Pohang, Korea (the Republic of); ²Asan Institute for Life Sciences, Asan Medical Center, Seoul, Korea (the Republic of); ³School of Interdisciplinary Bioscience and Bioengineering, Postech, Pohang, Korea (the Republic of); ⁴Division of Integrative Biosciences and Biotechnology, Postech, Pohang, Korea (the Republic of); ⁵Postech, Pohang, Korea (the Republic of); ⁶Health Screening and Promotion Center, Asan Medical Center, Seoul, Korea (the Republic of); ⁷Gwangju Institute of Science and Technology, Gwangju, Korea (the Republic of) (2232535)

11:35 SS 92: Engineering of Cephalosporin for Rapid Point-of-Care Detection of Mycobacterium Tuberculosis and Carbapenemase-Expressing Pathogen
 Yunfeng Cheng Radiology, Stanford, Stanford, California, USA (2233531)

11:45 SS 93: Phosphorescent probes for *in vivo* two-photon microscopy of oxygen
 Tatiana V. Esipova, Sergei A. Vinogradov Biochemistry and Biophysics, University of Pennsylvania, Philadelphia, Pennsylvania, USA (2244826)

11:55 SS 94: Design of a Ratiometric Fluorescent Probe Library for Specific Detection of Reactive Oxygen Species in Inflamed Intestine
 Diana Andina, Davide Brambilla, Jean-Christophe Leroux, Paola Luciani Department of Chemistry and Applied Biosciences, Swiss Federal Institute of Technology Zurich (ETHZ), Zurich, Zurich, Switzerland (2225833)

12:05 SS 95: Specific tumor imaging and therapy by activatable fluorescent and therapeutic agents based on internalizing RGD (iRGD) peptide
 Hong-Jun Cho¹, Sung-Jun Park², Sang-Myung Lee³, Yoon-Sik Lee², Sehoon Kim¹ ¹Center for Theragnosis, Korea Institute of Science and Technology, Seoul, Korea (the Republic of); ²School of Chemical and Biological Engineering, Seoul National University, Seoul, Korea (the Republic of); ³Department of Chemical Engineering, Kangwon National University, Chuncheon, Korea (the Republic of) (2227999)

***12:15 SS 96: Rational Design of Surface-Enhanced Resonance Raman Scattering Nanoprobes with Attomolar Sensitivity**
 Stefan Harmsen¹, Matthew A. Bedics², Matthew Wall¹, Ruimin Huang¹, Michael R. Detty⁴, Moritz F. Kircher⁵ ¹Radiology, Memorial Sloan Kettering Cancer Center, New York, New York, USA; ²Chemistry, University at Buffalo, Buffalo, New York, USA; ³Chemistry, Hunter College of the City University of New York, New York, New York, USA (2233106)

12:35 SS 97: Dual Functional Probes for Targeted-Near Infrared Imaging and Targeted-Photodynamic Therapy of Prostate Cancer
 Xinning Wang, Brian Tsui, Gopolakrishnan Ramamurthy, Xiaoyi Ren, James Basilion Case Western Reserve University, Cleveland, Ohio, USA (2230057)

Scientific Session 13

11:15-12:45 Preclinical in vivo Studies - Oncology: Optical (ROOM 313 A/B/C)
Moderators: James Basilion and Edward Delikatny

11:15 SS 98: Surface-Enhanced Resonance Raman Scattering Nanoprobes for Early Detection of Upper Gastrointestinal Lesions
 Stefan Harmsen¹, Ruimin Huang³, Massimiliano Spaliviero², Yoku Hayakawa⁴, Yoomi Lee⁴, Yagnesh Tailor⁴, Matthew Wall⁵, Julie R. White⁷, Timothy C. Wang⁴, Moritz F. Kircher⁸ ¹Memorial Sloan Kettering Cancer Center, New York, New York, USA; ²Urology, Memorial Sloan Kettering Cancer Center, New York, New York, USA; ³Radiology, Memorial Sloan Kettering Cancer Center, New York, New York, USA; ⁴Medicine, Columbia University, New York, New York, USA; ⁵Chemistry, Hunter College of the City University of New York, New York, New York, USA; ⁶Tri-Institutional Laboratory of Comparative Pathology, Memorial Sloan Kettering Cancer Center, New York, New York, USA (2233152)

11:25 SS 99: Biochemical and in vivo Diagnostic Characterization of Ratiometric Protease-activatable Fluorescent Imaging Agents in Preclinical Cancer Models: Supporting Clinical Translation
 Marcel Miampamba, Junjie Liu, Alec Harootunian, Andrew J. Gale, Jesus Gonzalez Avelas Biosciences, La Jolla, California, USA (2233878)

11:35 SS 100: In Vivo Early Detection of Oral Epithelial Cancer by Endogenous Fluorescence Lifetime Imaging (FLIM) Endoscopy
 Javier A. Jo¹, Shuna Cheng¹, Rodrigo Cuenca¹, Cory Olsovsky¹, Dae Yon Hwang¹, Joey Jabbour¹, Bilal Malik¹, Yi-Shing L. Cheng², John Wright², Kristen C. Maitland¹ ¹Biomedical Engineering, Texas A&M Univ, College Station, Texas, USA; ²Baylor College of Dentistry, Texas A&M University, Dallas, Texas, USA (2233978)

* Denotes highlight lecture



11:45 SS 101: Fluorescent imaging of prostate stem cell antigen in translational mouse models of cancer

Ziyue Karen Jiang¹, Andrew S. Behesnilian¹, Laurent A. Bentolila², Anna M. Wu³, Robert Reiter¹ ¹Urology, University of California, Los Angeles, Los Angeles, California, USA; ²Chemistry and Biochemistry, UCLA, Los Angeles, California, USA; ³Molecular & Medical Pharmacology, UCLA, Los Angeles, California, USA (2226817)

***11:55 SS 102: Normal Tissue Irradiation Promotes Tumor and Immune Cell Infiltration**

Marjan Rafat, Marta Vilalta, Todd A. Aguilera, Amato Giaccia, Edward E. Graves Radiation Oncology, Stanford University, Stanford, California, USA (2233599)

12:15 SS 103: Optical Imaging and Expression of PARP1 in mouse models and human tissue specimens

Susanne Kossatz¹, Nadeem Riaz³, Nora Katabi³, Brett Yarusi³, Steven Y. Leigh⁴, Danni Wang², Jonathan T. Liu⁴, Nancy Lee³, Wolfgang Weber¹, Thomas Reiner¹ ¹Radiology, Memorial Sloan Kettering Cancer Center, New York City, New York, USA; ²Biomedical Engineering, Stony Brook University, New York, New York, USA; ³Radiation Oncology, Memorial Sloan Kettering Cancer Center, New York, New York, USA; ⁴Mechanical Engineering, University of Washington, Seattle, Washington, USA (2240583)

12:25 SS 104: Cell penetrating peptides improve tumor delivery of imaging probes through Neuropilin-1-dependent extravasation

Tetsuya Kadonosono, Takuya Tsubaki, Takahiro Kuchimaru, Shinae Kizaka-Kondoh Tokyo Institute of Technology, Yokohama, Japan (2243146)

12:35 SS 105: A Fluorescent Delta-Opioid Receptor (DOR) Targeted Agent for Molecular Imaging and Intraoperative Guidance of Lung Cancer

Allison S. Cohen¹, Yolaine Jeune-Smith¹, Farah K. Khalil², Steven A. Enkemann³, Noel Clark⁴, Joseph O. Johnson⁵, Tingan Chen⁵, Aimee Bode⁶, Todd J. Casagni⁶, Margaret Baldwin⁶, Mikalai Budzevich⁷, Epifanio Ruiz⁷, Renata Patek⁸, Eric B. Haura⁹, Josef Vagner⁸, David L. Morse¹ ¹Department of Cancer Imaging and Metabolism, H. Lee Moffitt Cancer Center & Research Institute, Tampa, Florida, USA; ²Department of Anatomic Pathology, H. Lee Moffitt Cancer Center & Research Institute, Tampa, Florida, USA; ³Molecular Genomics Shared Resource, H. Lee Moffitt Cancer Center & Research Institute, Tampa, Florida, USA; ⁴Tissue Core Shared Resource, H. Lee Moffitt Cancer Center & Research Institute, Tampa, Florida, USA; ⁵Analytic Microscopy Core Shared Resource, H. Lee Moffitt Cancer Center & Research Institute, Tampa, Florida, USA; ⁶Department of Comparative Medicine, H. Lee Moffitt Cancer Center & Research Institute, Tampa, Florida, USA; ⁷Small Animal Imaging Laboratory Shared Resource, H. Lee Moffitt Cancer Center & Research Institute, Tampa, Florida, USA; ⁸Bio5 Institute, University of Arizona, Tucson, Arizona, USA; ⁹Department of Thoracic Oncology, H. Lee Moffitt Cancer Center & Research Institute, Tampa, Florida, USA (2221607)

Scientific Session 14

11:15-12:45 Preclinical in vivo Studies - Cardiology (Room 314)
Moderators: Yong Jeong and Rao Papineni

11:15 SS 106: Optical Imaging of Angiogenesis and MMP Activity in a Murine Model of Vascular Remodelling
Holly R. Stott¹, Kev Dhaliwal², Mark Bradley³, Patrick W. Hadoke¹ ¹Centre for Cardiovascular Science, The University of Edinburgh, Edinburgh, Lothian, United Kingdom; ²MRC Centre for Inflammation Research, The University of Edinburgh, Edinburgh, United Kingdom; ³School of Chemistry, The University of Edinburgh, Edinburgh, United Kingdom (2228734)

* Denotes highlight lecture

Friday September 4 (continued)

- 11:25 SS 107: Differential Kinetics of DNA Release in Myocardial Infarction and Ischemia-Reperfusion Injury**
Howard H. Chen¹, Hushan Yuan², Hoonsung Cho³, Soeun Ngoy⁴, Ronglih Liao⁴, Lee Josephson², David E. Sosnovik¹ ¹Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts, USA; ²Center for Advanced Medical Imaging Sciences, Massachusetts General Hospital, Harvard Medical School, Charlestown, Massachusetts, USA; ³School of Material Science and Engineering, Chonnam National University, Gwangju, Korea (the Republic of); ⁴Cardiovascular Division, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, Massachusetts, USA; ⁵Cardiovascular Research Center, Cardiology Division, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts, USA (2222914)
- 11:35 SS 108: Non-invasive, ultrasensitive, and early detection of myocardial ischemia using activated platelet-targeted PET/CT imaging**
Karen Alt, Melanie Ziegler, Christoph E. Hagemeyer, Karlheinz Peter Baker IDI Heart and Diabetes Institute, Melbourne, Victoria, Australia (2232465)
- 11:45 SS 109: Preclinical Safety and Efficacy of Graphene Based High Performance Magnetic Resonance Imaging Contrast Agent for Diagnosis and Monitoring of Renal Abnormalities**
Shruti Kanakia¹, Jimmy Toussaint³, Praveen Kulkarni², Stephen Lee¹, Slah Khan¹, Sayan Mulick Chowdhury¹, Kenneth R. Shroyer¹, William Moore⁴, Balaji Sitharaman¹ ¹Biomedical Engineering, Stony Brook University, Port Jefferson, New York, USA; ²Northeastern University, Boston, Massachusetts, USA; ³Stony Brook University, Stony Brook, New York, USA; ⁴Stony Brook University, Stony Brook, New York, USA (2232536)
- 11:55 SS 110: Imaging of arterial injury and healing in mice using VCAM-1 targeted ultrasound imaging**
Adelina Curaj³, Zhuojun Wu³, Stanley Fokong², Elisa Liehn², Christian Weber¹, Alexandrina Burlacu⁵, Twan Lammers⁴, Fabian Kiessling⁴, Marc van Zandvoort² ¹LMU, Minic, Germany; ²RWTH, Aachen, Germany; ³ExMI, RWTH, Aachen, Germany; ⁴Experimental Molecular Imaging, RWTH Aachen University, Aachen, NRW, Germany; ⁵Laboratory of Stem Cell Biology, Institute of Cellular Biology and Pathology "Nicolae Simionescu", Bucharest, Romania (2227172)
- 12:05 SS 111: Imaging of atherosclerotic plaques in mice with somatostatin receptor 2-targeting PET tracer ⁶⁸Ga-DOTANOC**
Sanna Hellberg¹, Petteri Rinne¹, Max Kiugel¹, Jenni Virta¹, Pauliina Luoto¹, Heidi Liljenbäck¹, Harri Hakovirta³, Maria Gardberg⁴, Juhani Knuuti¹, Antti Saraste¹, Anne Roivainen¹ ¹Turku PET Centre, University of Turku, Turku, Finland; ²Turku Center for Disease Modeling, University of Turku, Turku, Finland; ³Department of Surgery, University of Turku, Turku, Finland; ⁴Department of Pathology, Turku University Hospital and University of Turku, Turku, Finland; ⁵Heart Center, Turku University Hospital and University of Turku, Turku, Finland (2232754)
- *12:15 SS 112: Advanced Cardiac Chemical Exchange Saturation Transfer (cardioCEST) – MRI for *In Vivo* Multi-color Cell Tracking and Myocardial Creatine Imaging.**
Ashley L. Pumphrey¹, Zhengshi Yang¹, Shaojing Ye³, Moriel Vandsburger¹ ¹Saha Cardiovascular Research Center, University of Kentucky, Lexington, Kentucky, USA; ²Biomedical Engineering, University of Kentucky, Lexington, Kentucky, USA (2229771)
- 12:35 SS 113: Assessment and precise quantification of post-infarction scar remodeling using a collagen-targeted magnetic resonance contrast agent and T1 mapping techniques**
Fabian Lohoefer¹, Laura Hoffmann¹, Almut Glinzer¹, Katja Kosanke¹, Franz Schilling², Ernst J. Rummeny¹, Moritz Wildgruber¹ ¹Department of Radiology, TU München, München, Germany; ²Department of Nuclear Medicine, TU München, Munich, Germany (2228540)

Scientific Session 15

- 11:15-12:45 Chemistry & Imaging Probes - Nuclear Imaging (Room 315)**
Moderators: Anna Wu and Frederick Chin
- *11:15 SS 114: Ring-closing synthesis of dibenzothiophene sulfonium salts and their use as precursors for aromatic [18F]fluorination – Application to direct labeling of the mGluR5 PET tracer [18F]FPFB**
Thibault Gendron¹, Kerstin Sander¹, Klaudia Cybulska², Vincent Gray¹, Erik Arstad¹ ¹Institute of Nuclear Medicine, University College London, London, United Kingdom; ²Department of Chemistry, University College London, London, United Kingdom (2232415)
- 11:35 SS 115: A Novel 5 kDa Protein Scaffold for Robust Evolution of Ligands for PET**
Max A. Kruziki, Vandon T. Duong, Benjamin J. Hackel
Chemical Engineering and Materials Science, University of Minnesota - Twin Cities, Minneapolis, Minnesota, USA (2232667)

* Denotes highlight lecture

- 11:45 SS 116: PET Imaging of [¹¹C]ascorbic acid in a murine rheumatoid arthritis model**
 Bin Shen¹, Mikael Palner¹, Valerie N. Carroll², Xia Shao³, Peter J. Scott³, John D. MacKenzie², David M. Wilson², Frederick T. Chin¹ ¹Radiology, Stanford University, Stanford, California, USA; ²Radiology, University of California San Francisco, San Francisco, California, USA; ³Radiology, University of Michigan, Ann Arbor, Michigan, USA (2230717)
- 11:55 SS 117: ^{99m}Tc-Labeled CWXY9 peptide for integrin α 6 targeted tumor imaging**
 Chengyan Dong¹, Yue Wu², Guokai Feng³, Liqiang Li², Qian Zhong³, Musheng Zeng³, Fan Wang¹
¹Interdisciplinary Laboratory, Institute of Biophysics, Chinese Academy of Sciences, Beijing, China; ²Medical Isotopes Research Center, Peking University, Beijing, China; ³Sun Yat-sen University Cancer Center, State Key Laboratory of Oncology in South China, Collaborative Innovation Center for Cancer Medicine, Guangzhou, Guangdong, China (2232824)
- 12:05 SS 118: Preliminary evaluation of ¹⁸F-labeled flexible benzyloxybenzenes for PET imaging of β -amyloid plaques**
 Yanping Yang, Mengchao Cui, Boli Liu College of Chemistry, Beijing Normal University, Beijing, China (2230653)
- 12:15 SS 119: Preclinical PET/CT imaging of nitroreductase reporter gene with ¹⁸F-FMISO**
 Kjetil B. Lund¹, Endre Stigen¹, Mihaela Popa², Cecilie Brekke Rygh⁴, Tom Christian H. Adamsen⁵, Ole Heine Kvernenes⁶, Bengt Erik Haug⁷, Emmet Mc Cormack¹
¹Clinical science, University of Bergen, Bergen, Norway; ²KiINN Therapeutics AS, Bergen, Norway; ³Virologisk Seksjon, Haukeland Universitetssykehus, Bergen, Norway; ⁴Department of Biomedicine, University of Bergen, Bergen, Norway; ⁵Department of Chemistry, University of Bergen, Bergen, Norway; ⁶Department of radiology, Haukeland University Hospital, Bergen, Norway (2233401)
- 12:25 SS 120: Meeting the Challenge of a one-step, late-stage, aqueous, HPLC-free method for labeling peptides with wet NCA ¹⁸F-fluoride**
 David M. Perrin⁴, Zhibo (Zippo) Liu⁴, Maral Pourghasian¹, Jinhe Pan³, Zhengxing Zhang¹, Silvia Jenni¹, Navjit Hundal-Jabal¹, Donald Yapp², Kuo-Shyan Lin¹, François Bénard² ¹Molecular Oncology, BC Cancer Agency, Vancouver, British Columbia, Canada; ²BC Cancer Agency and Research Centre, Vancouver, British Columbia, Canada; ³Molecular Oncology, BC Cancer Research Centre, Vancouver, British Columbia, Canada; ⁴Chemistry, UBC, Vancouver, British Columbia, Canada (2234195)

- 12:35 SS 121: A novel synthesis of 6-[¹⁸F]fluoromaltotriose as a PET tracer for imaging bacterial infection**
 Mohammad Namavari, Gayatri Gowrishankar, Ananth Srinivasan, Sanjiv S. Gambhir Radiology, Stanford University, Stanford, California, USA (2227940)

12:45-13:45 Lunch Break in Exhibit Hall (Sponsored by Aspect Imaging) (KAMEHAMEHA EXHIBIT HALL 2 & 3)

12:45-13:45 Program Committee Meeting (Room 317A)

Scientific Session 16

- 13:45-15:15 Technology & Software Developments - Hybrid Multimodal/Ultrasound/CT (Room 311)**
 Moderators: Jonathan Liu and Craig Levin
- 13:45 SS 122: Experimental validation of proton-induced x-ray fluorescence imaging for visualization of gold nanoparticles**
 Magdalena Bazalova-Carter¹, Moiz Ahmad¹, Taeko Matsuura⁴, Seishin Takao⁴, Yuto Matsuo⁴, Rebecca Fahrig², Hiroki Shirato⁴, Kikuo Umegaki⁴, Lei Xing¹
¹Radiation Oncology, Stanford University, Stanford, California, USA; ²Radiology, Stanford University, Stanford, California, USA; ³Global Institution for Collaborative Research and Education (GI-CoRE), Hokkaido University, Sapporo, Japan; ⁴Medical Physics, Hokkaido University Hospital, Sapporo, Japan (2233441)
- 13:55 SS 123: Comprehensive Approach to Localization of Sentinel Lymph Node and Detection of Micrometastases using Sound, Light and Molecular Contrast nanoAgents**
 Geoffrey P. Luke, Alexander Hannah, Stanislav Emelianov Biomedical Engineering, The University of Texas at Austin, Austin, Texas, USA (2234384)
- 14:05 SS 124: A new method for the visualization and quantification of targeted microbubbles in ultrasound molecular imaging**
 Peter J. Frinking, Jean-Marc Hyvelin, Emmanuel Gaud, Maria Costa, Sylvie Henrioud, Thomas Fresneau, Thierry Bettinger, François Tranquart Global Research and Development, Bracco Suisse SA, Plan-les-Ouates / GE, Switzerland (2229995)

Friday September 4 (continued)

14:15 SS 125: Temporal weighting and angular rebinning for artifact-free single-rotation retrospectively gated 4D cardiac micro-CT

Daniele Panetta¹, Nicola Belcari², Silvia Burchielli³, Gualtiero Pelosi¹, Maria Tripodi¹, Mariarosaria De Simone¹, Patricia Iozzo¹, Alberto Del Guerra², Piero A. Salvadori¹ ¹CNR Institute of Clinical Physiology, Pisa, Italy; ²Department of Physics "E.Fermi" - University of Pisa, Pisa, Italy; ³Fondazione CNR/Toscana "G. Monasterio", Pisa, Italy (2228908)

14:25 SS 126: MRI measurements in the presence of a RF-penetrable PET insert for simultaneous PET/MRI

Brian J. Lee², Alexander M. Grant³, Chen-Ming Chang⁴, Craig S. Levin¹ ¹Radiology, Stanford University, Stanford, California, USA; ²Mechanical Engineering, Stanford University, Stanford, California, USA; ³Bioengineering, Stanford University, Stanford, California, USA; ⁴Applied Physics, Stanford University, Stanford, California, USA (2236333)

***14:45 SS 127: Dual Tracer Imaging implemented on a Hybrid Ultrasound-guided multi-spectral fluorescence tomography system to estimate lymph node tumor burden in-vivo**

Alisha V. DSouza¹, Jason R. Gunn¹, Kenneth M. Tichauer², Brian W. Pogue¹ ¹Thayer School of Engineering, Dartmouth College, Hanover, New Hampshire, USA; ²Illinois Institute of Technology, Chicago, Illinois, USA (2233618)

14:55 SS 128: MENGA: a comprehensive tool for the integration of brain imaging modalities and Allen brain genomic atlas

Gaia Rizzo¹, Mattia Veronese², Paul Expert², Federico E. Turkheimer², Alessandra Bertoldo¹ ¹Department of Information Engineering, University of Padova, Padova, Italy; ²Department of Neuroimaging, Institute of Psychiatry, Psychology & Neuroscience, King's College, London, United Kingdom (2230774)

15:05 SS 129: A physiological based model for tracer concentration time curves in blood vessels measured by dynamic imaging

Dennis L. Cheong Clinical Imaging Research Centre, Singapore, Singapore (2232860)

Scientific Session 17

13:45-15:15 Chemistry & Imaging Probes

- **Ultrasound** (Room 312)

Moderators: Katherine Ferrara and Alexander Klibanov

***13:45 SS 130: Ultrasound-guided and mediated drug delivery combined with a TLR9 agonist accelerates the therapeutic response in a murine breast cancer model**

Azadeh Kheirloomoom¹, Elizabeth S. Ingham¹, Lisa M. Mahakian¹, Sarah M. Tam¹, Josquin Foiret², Katherine Ferrara¹ ¹Biomedical Engineering, University of California, Davis, Sacramento, California, USA; ²Department of Biomedical Engineering, University of California, Davis, Davis, California, USA (2233721)

14:05 SS 131: Genetic engineering of recombinantly expressed gas vesicle contrast agents for ultrasound

Raymond W. Bourdeau², Anupama Lakshmanan¹, Xiaowei Zhang², Mikhail G. Shapiro² ¹Bioengineering, California Institute of Technology, Pasadena, California, USA; ²Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, California, USA (2234180)

14:15 SS 132: Microfluidic-based production of narrow size distribution freeze-dried microbubbles for ultrasound imaging and cancer therapy: Synthesis and *in vivo* characterization

Minseok Seo², Siqi Zhu², Ben Leung², Dave Goertz², Naomi Matsuura¹ ¹University of Toronto, Toronto, Ontario, Canada; ²Sunnybrook Research Institute, Toronto, Ontario, Canada (2231411)

14:25 SS 133: Ultrasound Molecular Imaging of Angiogenesis using Engineered Scaffold Ligands

Lotfi Abou-Elkacem¹, Katheryne E. Wilson¹, Sunitha Bachawal², Sadie Johnson³, Benjamin J. Hackel³, Juergen K. Willmann⁴ ¹Radiology, Stanford University, Palo Alto, California, USA; ²Radiology, Stanford University, Stanford, California, USA; ³Department of Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, Minnesota, USA (2231639)

14:35 SS 134: Molecular Control of Harmonic Signals in Gas Vesicle Contrast Agents for Ultrasound

Anupama Lakshmanan¹, Jordan Dykes³, Suchita Nety³, Raymond W. Bourdeau³, Xiaowei Zhang², Mikhail G. Shapiro³ ¹Bioengineering, California Institute of Technology, Pasadena, California, USA; ²Caltech, Pasadena, California, USA; ³Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, California, USA (2234183)

14:45 SS 135: Ultrasound Microbubble Capture Using Bioorthogonal Coupling: An *In Vivo* Validation

Melissa Yin², Aimen Zlitni¹, Judy Yan², John Valliant¹, F. Stuart Foster² ¹Chemistry and Chemical Biology, McMaster University, Hamilton, Ontario, Canada; ²Physical Sciences, Sunnybrook Research Institute, Toronto, Ontario, Canada; ³Medical Biophysics, University of Toronto, Toronto, Ontario, Canada (2233597)

* Denotes highlight lecture

14:55 SS 136: Ultrasound Molecular Imaging with anti-VCAM-1 Antibody-Targeted Microbubbles: Sequential Use of Thiol-Maleimide Coupling and Amalgamation for a One-Pot Microbubble Contrast Formulation.

Alexander L. Klibanov¹, Zhongmin Du², Galina Diakova²
¹Department of Medicine, Cardiovascular Division, University of Virginia, Charlottesville, Virginia, USA;
²Robert M. Berne Cardiovascular Research Center, University of Virginia, Charlottesville, Virginia, USA (2232065)

15:05 SS 137: Super-resolution molecular ultrasound imaging with laser-activated nanodroplets

Geoffrey P. Luke¹, Alexander Hannah¹, Stanislav Emelianov¹ ¹Biomedical Engineering, The University of Texas at Austin, Austin, Texas, USA; ²Department of Imaging Physics, MD Anderson Cancer Center, Houston, Texas, USA (2226685)

Scientific Session 18

13:45-15:15 Preclinical in vivo Studies - Oncology: Nuclear (Room 313 A/B/C)

Moderators: Michael Phelps and Carolyn Anderson

13:45 SS 138: An Improved Strategy for the Pretargeted PET Imaging of Colorectal Cancer

Brian M. Zeglis¹, Christian Brand², Dalya Abdel-Atti², Kathryn E. Carnazza², Brendon Cook¹, Sean Carlin², Thomas Reiner², Jason S. Lewis² ¹Department of Chemistry and Biochemistry, Hunter College, New York, New York, USA; ²Department of Radiology, Memorial Sloan Kettering Cancer Center, New York, New York, USA (2233336)

13:55 SS 139: Theranostic pretargeting of HER2-expressing human carcinoma xenografts in immunocompromised mice with an anti-DOTA(metal) hapten IgG-scFv bispecific antibody

Sarah M. Cheal, Hong Xu, Hong-fen Guo, Blesida J. Punzalan, Manisha Singh, Sang-gyu Lee, Edward K. Fung, Teja Muralidhar Kalidindi, Pat Zanzonico, Nai-Kong V. Cheung, Steven M. Larson Memorial Sloan Kettering Cancer Center, New York, New York, USA (2233962)

14:05 SS 140: In vivo tracking of ⁶⁴Cu-NOTA-CD11b-labeled granulocytic myeloid-derived suppressor cells in PyMT breast cancer by PET

Sabrina H. Eilenberger¹, Jaclyn E. Sceneay², Christina S. Wong³, Manfred Kneilling⁴, Andreas Möller³, Bernd J. Pichler¹, Christoph M. Griessinger¹ ¹Werner Siemens Imaging Center, Department of Preclinical Imaging and Radiopharmacy, Eberhard Karls University Tübingen, Tübingen, Germany; ²Department of Hematology, Brigham and Women's Hospital, Boston, Massachusetts, USA; ³Tumour Microenvironment Laboratory, QIMR Berghofer Medical Research Institute, Herston, Queensland, Australia; ⁴Department of Dermatology, Eberhard Karls University Tübingen, Tübingen, Germany (2232131)

14:15 SS 141: PET imaging of tumor glycolysis downstream of hexokinase through noninvasive measurement of pyruvate kinase M2

Timothy H. Witney, Michelle L. James, Bin Shen, Edwin Chang, Christoph Pohling, Natasha Arksey, Aileen Hoehne, Adam Shuhendler, Gayatri Gowrishankar, Jianghong Rao, Frederick T. Chin, Sanjiv S. Gambhir Department of Radiology, Stanford University, Stanford, California, USA (2222162)

***14:25 SS 142: Sodium iodide symporter (NIS)-based reporter gene imaging with [¹⁸F]-tetrafluoroborate allows in vivo metastasis tracking by PET**

Seckou Diocou¹, Gilbert O. Fruhwirth¹, Krisanat Chuamsaamarkkee¹, Maite Jauregui-Osoro¹, Lefteris Livieratos¹, Tony Ng², Philip J. Blower¹, Greg E. Mullen¹ ¹Department for Imaging Chemistry and Biology, King's College London, London, United Kingdom; ²Division of Cancer Studies and Randall Division, King's College London, London, United Kingdom; ³UCL Cancer Institute, University College London, London, United Kingdom (2232288)

14:45 SS 143: Imaging of immune checkpoints of PD-1 receptor expressing T cells using novel immunoPET tracer in an transgenic mouse model bearing melanoma

Arutselvan Natarajan¹, Jacob Gano¹, Robert E. Reeves¹, Sanjiv S. Gambhir¹ ¹Radiology, Stanford University, Stanford, California, USA; ²Bioengineering, Materials Science and Engineering, Stanford University, Stanford, California, USA (2226205)

14:55 SS 144: Pretargeted immunoPET imaging of CA19.9, a shed antigen, in murine models of pancreatic cancer

Jacob Houghton², Brian M. Zeglis³, Dalya Abdel-Atti², Ritsuko Sawada¹, Wolfgang W. Scholz¹, Jason S. Lewis² ¹Mabvax Therapeutics, San Diego, California, USA; ²Department of Radiology, Memorial Sloan Kettering Cancer Center, New York, New York, USA; ³Department of Chemistry, Hunter College and the Graduate Center of the City University of New York, New York, New York, USA (2227204)

* Denotes highlight lecture

Friday September 4 (continued)

15:05 SS 145: Combination Effects of Sorafenib with Ionizing Radiation on Orthotopic Human Oral-Bearing Mice Model
Hui-Yen Chuang, Jeng-Jong Hwang National Yang-Ming University, Taipei, Taiwan (2232827)

Scientific Session 19

13:45-15:15 Preclinical in vivo Studies - Infectious Disease/Reporter Genes, Signal Transduction & Epigenetics (Room 314)
Moderators: Vladimir Ponomarev and Dima Hammoud

13:45 SS 146: Simultaneous In Vitro and In Vivo Diagnosis of Bacterial Infections in Living Mice
Gayatri Gowrishankar¹, Mohammad Namavari¹, Ananth Srinivasan², Neeraja Ravi³, Robert E. Reeves⁴, Sanjiv S. Gambhir⁵ ¹Radiology, Stanford University, Stanford, California, USA; ³Bioengineering, University of California San Diego, San Diego, California, USA; ⁶Bioengineering, Stanford University, Stanford, California, USA (2230791)

13:55 SS 147: Improving the efficiency of preclinical pulmonary disease and therapy studies: MicroCT-derived biomarkers reveal marked changes throughout lung infection, inflammation, fibrosis and treatment
Greetje Vande Velde¹, Jennifer Poelmans¹, Ellen De Langhe², Amy Hillen¹, Jeroen Vanoirbeek⁴, Rik Lories², Uwe Himmelreich¹ ¹Imaging and Pathology, KU Leuven, Leuven, Flanders, Belgium; ²Development and Regeneration, KU Leuven, Leuven, Belgium; ³Rheumatology, University Hospitals Leuven, Leuven, Belgium; ⁴Public Health and Primary Care, KU Leuven, Leuven, Belgium; ⁵Pneumology, KU Leuven, Leuven, Belgium (2231230)

14:05 SS 148: Characterizing Cavitory Lesions in a Murine Model of Tuberculosis using High Resolution Computer Tomography
Alvaro A. Ordoñez¹, Rokeya Tasneen³, Paul J. Converse³, Mariah Klunk¹, Supriya Pokkali¹, Eric L. Nueremberger³, Sanjay K. Jain¹ ¹Center for Infection and Inflammation Imaging Research, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA; ²Department of Pediatrics, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA; ³Center for Tuberculosis Research, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA; ⁴Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA (2233021)

14:15 SS 149: Development of Imaging Technologies to Track Tuberculosis in Live Animals
Hee-Jeong Yang¹, Ying Kong², Yunfeng Cheng³, Fatemeh Nooshabadi⁴, Harish Janagama¹, Hany A. Hassounah¹, Hexin Xie³, Jianghong Rao³, Kristen C. Maitland⁴, Jeffrey Cirillo¹ ¹Microbial Pathogenesis and Immunology, Texas A&M Health Science Center, Bryan, Texas, USA; ²University of Tennessee Health Science Center, Memphis, Tennessee, USA; ³Stanford University, Stanford, California, USA; ⁴Texas A&M University, College Station, Texas, USA (2227267)

14:25 SS 150: Preclinical in vivo evaluation of a novel PET/SPECT genetic reporter system for imaging T-cells in the brain
Louise Kiru¹, Adam Badar¹, Brian Philip², Tammy L. Kalber¹, Rajiv d. Ramasawmy¹, Ida Ricciardelli³, Bernard Siow¹, Vishvesh Shende⁴, Teresa Marafioti⁴, Martin Pule², Mark F. Lythgoe¹ ¹Medicine, UCL Centre for Advanced Biomedical Imaging, London, United Kingdom; ²Haematology, UCL Cancer Institute, London, United Kingdom; ³Molecular & Cellular Immunology, UCL Institute of Child Health, London, United Kingdom; ⁴Cellular Pathology and Histopathology, University College London, London, United Kingdom (2230504)

***14:35 SS 151: Noninvasive Imaging of Tuberculosis-Associated Neuroinflammation with Radioiodinated DPA-713 in an In Vivo Pediatric Rabbit Model**
Elizabeth W. Tucker¹, Supriya Pokkali², Vincent P. DeMarco², Mariah Klunk², Zhi Zhang¹, Elizabeth Nance¹, Catherine A. Foss³, Sujatha Kannan¹, Sanjay K. Jain⁶ ¹ACCM, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA; ²Center for Tuberculosis Research, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA; ³Center for Infection and Inflammation Imaging Research, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA; ⁴Russell H. Morgan Department of Radiology and Radiological Science, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA; ⁵Center for Nanomedicine, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA (2232400)

14:55 SS 152: Bone formation is induced in mouse calvarial defects after transplanting mesenchymal stem cells with CMKLR1 knockdown
Shanmugam Muruganandan², Christa B. Davis¹, Chris Bowen¹, Kim Brewer¹, Christopher Sinal² ¹Biomedical Translational Imaging Centre, Halifax, Nova Scotia, Canada; ²Pharmacology, Dalhousie University, Halifax, Nova Scotia, Canada; ³IWK Health Centre, Halifax, Nova Scotia, Canada (2233505)

* Denotes highlight lecture

15:05 SS 153: PET-based cell tracking with a Cre-switchable sr39tk PET reporter mouse line

Martin Thunemann¹, Barbara F. Schörg², Jakob Voelkl³, Yun Lin², Matthias Golla¹, Susanne Feil¹, Christoph M. Griessinger², Manfred Kneilling², Florian Lang³, Bernd J. Pichler², Robert Feil¹ ¹Interfakultäres Institut für Biochemie, Eberhard Karls Universität Tübingen, Tübingen, Germany; ²Department of Preclinical Imaging and Radiopharmacy, Werner Siemens Imaging Center, Tübingen, Germany; ³Physiologisches Institut I, Eberhard Karls Universität Tübingen, Tübingen, Germany; ⁴Department of Dermatology, Eberhard Karls Universität Tübingen, Tübingen, Germany (2244195)

Scientific Session 20**13:45-15:15 Preclinical in vivo Studies - Metabolic Diseases (Room 315)**

Moderators: Ren-Shyan Liu and Melissa Moore

13:45 SS 154: Low kidney uptake of [¹⁸F]exendin-4 and high beta cell binding in rat and human pancreatic islet

Kirsi Mikkola¹, Cheng-Bin Yim¹, Paula Lehtiniemi¹, Johan Rajander², Olof Solin², Pirjo Nuutila¹ ¹Turku PET Centre, University of Turku, Turku, Finland; ²Accelerator Laboratory, Åbo Akademi University, Turku, Finland; ³Department of Endocrinology, Turku University Hospital, Turku, Finland (2232772)

13:55 SS 155: PET Imaging of β Cell Endoplasmic Reticulum Stress using 5-(2-¹⁸F-Fluoroethoxy)-L-Tryptophan.

Savita Dhanvantari¹, Ahmed Abbas², Rebecca McGirr¹, Neil Cockburn¹, Dawid Krokowski³, Michael Kovacs¹, Ting-Yim Lee¹, Maria Hatzoglou³ ¹Imaging, Lawson Health Research Institute, London, Ontario, Canada; ²Medical Biophysics, Western University, London, Ontario, Canada; ³Pharmacology, Case Western Reserve University, Cleveland, Ohio, USA (2237795)

14:05 SS 156: In Vivo Targeted Molecular Magnetic Resonance Imaging of Free Radicals in Diabetic Cardiomyopathy in Mice

Rheal Towner¹, Nataliya Smith¹, Debra Saunders¹, Jorge Carrizales¹, Florea Lupu², Robert Silasi-Mansat², Marilyn Ehrenshaft³, Ronald Mason⁴ ¹Advanced Magnetic Resonance Center, Oklahoma Medical Research Foundation, Oklahoma City, Oklahoma, USA; ²Cardiovascular Biology, Oklahoma Medical Research Foundation, Oklahoma City, Oklahoma, USA; ³NIEHS, Research Triangle Park, North Carolina, USA (2231665)

14:15 SS 157: Intestinal fatty acid uptake is not enhanced in diabetic and hypercholesterolemic animals; validation study with positron emission tomography

Henri Honka¹, Mia Stähle¹, Heidi Liljenbäck¹, Matti Jauhainen², Nina Sarja¹, Seppo Ylä-Herttuala³, Pirjo Nuutila¹, Anne Roivainen¹ ¹Turku PET Centre, University of Turku, Turku, Finland; ²Public Health Genomics Unit, National Institute for Health and Welfare, Helsinki, Finland; ³A.I. Virtanen Institute for Molecular Sciences, University of Eastern Finland, Kuopio, Finland; ⁴Department of Endocrinology, Turku University Hospital, Turku, Finland; ⁵Turku Center for Disease Modeling, University of Turku, Turku, Finland (2230236)

***14:25 SS 158: Combined PET-ME-MR imaging to quantify β -cell mass and function in a Rip1-Tag2 mouse model**

Filippo C. Michelotti², Gregory Bowden², Andreas M. Schmid¹, Bernd J. Pichler³ ¹Department of Preclinical Imaging and Radiopharmacy, University Hospital Tübingen, Tübingen, Germany; ²Department of Preclinical Imaging and Radiopharmacy, Werner Siemens Imaging Center, University of Tuebingen, Tuebingen, Saint Barthélemy; ³Department of Preclinical Imaging and Radiopharmacy, Werner Siemens Imaging Center, University of Tuebingen, Tübingen, Germany (2232426)

14:45 SS 159: Development of a Nanosponge Drug Delivery System Targeting the Pancreatic Beta Cell for Site-Directed Diabetes Therapeutics and Imaging

John Virostko¹, Neil Phillips², Kelly Gilmore³, Dain Beezer³, Eva Harth³, Alvin C. Powers² ¹Institute of Imaging Science, Vanderbilt University, Nashville, Tennessee, USA; ²Department of Medicine, Vanderbilt University, Nashville, Tennessee, USA; ³Department of Chemistry, Vanderbilt University, Nashville, Tennessee, USA (2224772)

14:55 SS 160: Asialoglycoprotein receptor imaging for functional liver reserve using [⁶⁸Ga]GSA PET

Andreas M. Schmid¹, Andreas Maurer¹, Bernd J. Pichler¹, Irene J. Virgolini², Roland Haubner² ¹Department of Preclinical Imaging and Radiopharmacy, University Hospital Tübingen, Tübingen, Germany; ²Department of Nuclear Medicine, Medical University of Innsbruck, Innsbruck, Austria (2233776)

* Denotes highlight lecture

Friday September 4 (continued)

15:05 SS 161: A novel ultrahigh resolution imaging mass spectrometry visualizes distribution of sphingomyelin molecular species in the mouse tissue section
 Masayuki Sugimoto², Yoichi Shimizu¹, Masato Wakabayashi³, Takeshi Yoshioka³, Yukari Tanaka⁴, Kenichi Higashino³, Yoshito Numata³, Shota Sakai⁵, Akio Kihara⁶, Yasuyuki Igarashi⁵, Yuji Kuge¹ ¹Central Institute of Isotope Science, Hokkaido University, Sapporo, Hokkaido, Japan; ²Graduated School of Medicine, Hokkaido University, Sapporo, Japan; ³Discovery Research Laboratory for Innovative Frontier Medicines, Shionogi & Co., Ltd., Sapporo, Japan; ⁴Research Laboratory for Development, Shionogi & Co., Ltd., Toyonaka, Japan; ⁵Faculty of Advanced Life Science, Hokkaido University, Sapporo, Japan; ⁶Faculty of Pharmaceutical Science, Hokkaido University, Sapporo, Japan (2229232)

15:15-16:00 Coffee Break & Visit Exhibits
 (KAMEHAMEHA EXHIBIT HALL 2 & 3)

Poster Session 3 and the Fellows Meet & Greet Reception - Join us for beer, wine and appetizers.

18:30 -19:30 Poster Session 3 (KAMEHAMEHA EXHIBIT HALL 2 & 3)

Odd Numbers will be presented during the first 30 minutes of the session and even numbers during the second 30 minutes. For a complete list of individual abstracts, refer to pages 73-100

Preclinical in vivo Studies

- Cardiology
- Infectious Disease
- Inflammation/Immunology
- Metabolic Disease
- Neurology
- Oncology

Plenary Session 5

16:00-17:00 Plenary Session 5: Jon-Kar Zubieta (KALAKAUA BALLROOM B&C) (ROOM KALAKAUA BALLROOM B&C)
Moderators: Val Low and Mei Tian

16:00 PLS 5: Endogenous Opioid Mechanisms in Major Depression: Association with Treatment Responses
 Jon-Kar Zubieta University of Michigan, Ann Arbor, Michigan, USA (2262106)

Fellows Forum Panel

17:00-18:30 Fellows Forum Panel (ROOM KALAKAUA BALLROOM B&C)



Saturday September 5

Room	311	312	313 A/B/C	314	315	320 (Emalani Theatre)
08:00 - 09:30	Spotlight Session 9: Metabolic Reprogramming - Implications for Cancer Imaging and Therapy	Spotlight Session 10: Oncogenetic Tumor Heterogeneity Translated to Imaging: Radiomics and Radiogenomics	Spotlight Session 11: Translational Imaging & Drug Discovery			
09:30 - 10:30	Plenary Session 6: Philipp Scherer (Kalakaua Ballroom B&C)					
10:30 - 11:15	Coffee Break & Visit Exhibits					
11:15 - 12:45	Scientific Session 21: First-in-Human & Clinical Studies	Scientific Session 22: Technology & Software Developments - MRI/PET/SPECT	Scientific Session 23: Preclinical Cell & Tissue Level Studies - Oncology	Scientific Session 24: Chemistry & Imaging Probes - MRI/CT	Scientific Session 25: Chemistry & Imaging Probes - Nuclear Imaging	Scientific Session 26: Preclinical in vivo Studies - Oncology: Many Modalities
12:45 - 13:45	Lunch Break & Visit Exhibits					
13:45 - 14:45	Poster Session 4 & Poster Wall Presentation(Exhibit Hall 2 & 3)					
14:45 - 15:00	Break					
15:00 - 17:00	Closing Ceremony, YIA Award & Highlight Lecture by John Gore (Kalakaua Ballroom B&C)					
17:30 - 22:00	Gala Event 17:30 - 22:00 - Island Luau Under the Stars					

Saturday September 5 (continued)

Exhibitor Breakfast

08:00-09:00 Exhibitor Breakfast (Room 317A)

Spotlight Session 09

08:00-09:30 **Metabolic Reprogramming - Implications for Cancer Imaging and Therapy** (Room 311)

Moderators: Kayvan Keshari and Ralph DeBerardinis

08:00 **SPS 34: Cancer Metabolism: What Can ¹³C NMR Teach Us?**

Craig Malloy¹ ¹Advanced Imaging Research Center, University of Texas Southwestern Medical Center, Dallas, Texas, USA; ²VA North Texas Healthcare System, Dallas, Texas, USA (2343356)

08:30 **SPS 35: PET imaging of nucleotide metabolism**

Caius Radu Molecular and Medical Pharmacology, UCLA, Los Angeles, California, USA (2307528)

09:00 **SPS 36: Hyperpolarized ¹³C MR – Applications to Cancer Metabolism**

John Kurhanewicz¹, Renuka Sriram¹, Kayvan R. Keshari², Daniel Vigneron¹ ¹Radiology and Biomedical Imaging, UCSF, San Francisco, California, USA; ²MSKCC, New York, New York, USA (2343610)

Spotlight Session 10

08:00-09:30 **Oncogenetic Tumor Heterogeneity Translated to Imaging: Radiomics and Radiogenomics** (Room 312)

Moderators: Robert Gillies and Evis Sala

08:00 **SPS 37: Introduction: Radiogenomics, the new generation imaging**

Evis Sala Radiology, Memorial Sloan Kettering Cancer Center, New York, New York, USA (2287369)

08:30 **SPS 38: Decoding tumor phenotype using radiomics**

Sandy Napel Radiology, Stanford University, Stanford, California, USA (2318831)

09:00 **SPS 39: Deciphering Breast Cancer with Quantitative Radiomics & Imaging Genomics: Imaging Phenotypes in Breast Cancer Risk Assessment, Diagnosis, Prognosis, and Risk of Recurrence**

Maryellen Giger Radiology, University of Chicago, Chicago, Illinois, USA (2324483)

Spotlight Session 11

08:00-09:30 **Translational Imaging & Drug Discovery** (Room 313 A/B/C)

Moderators: Jack Hoppin and Charles Glau

08:00 **SPS 40: Multi-Modal Imaging Applications for Brain Drug Delivery**

Ajay Verma Experimental Medicine, Biogen Idec, Cambridge, Massachusetts, USA (2325230)

08:45 **SPS 41: Translational Imaging – Challenges and Opportunities**

Timothy J. McCarthy Clinical & Translational Imaging, Pfizer, Inc, Cambridge, Massachusetts, USA (2287264)

Plenary Session 6

09:30-10:30 **Plenary Session 6: Philipp Scherer** (KALAKAUA BALLROOM B&C (ROOM KALAKAUA BALLROOM B&C))

Moderators: Moritz Kircher

09:30 **PLS 6: Adipose Tissue: A Tale of Hypoxia, Angiogenesis, Fibrosis and ECM Remodeling**

Philipp E. Scherer The University of Texas Southwestern Medical Center, Dallas, Texas, USA (2247639)

10:30-11:15 **Coffee Break & Visit Exhibits**

(KAMEHAMEHA EXHIBIT HALL 2 & 3)

Scientific Session 21

11:15-12:45 **First-in-Human & Clinical Studies** (Room 311)

Moderators: Yasuhisa Fujibayashi and Wolfgang Weber

11:15 **SS 162: ¹⁸F-Nifene: First-in-human PET studies for imaging nicotinic $\alpha 4\beta 2$ receptors**

Jogeshwar Mukherjee¹, Patrick J. Lao², Tobey J. Betthausen², Ansel T. Hillmer², Min-Liang Pan¹, Ishani H. Patel¹, Sharon A. Kuruvilla¹, Andrew T. Higgins², Todd E. Barnhart², Charles K. Stone², Bradley T. Christian² ¹Radiological Sciences, University of California, Irvine, Irvine, California, USA; ²Medical Physics & Waisman Center, University of Wisconsin, Madison, Wisconsin, USA (2231396)

11:25 **SS 163: An Omics Approach to Traumatic Brain Injury in Human Patients**

Zhifeng Kou¹, Armin Iraj¹, Natalie Wiseman¹, Hanbo Chen², Robert D. Welch³, Brian O'Neil³, Tianming Liu², E. M. Haacke¹ ¹Biomedical Engineering and Radiology, Wayne State University, Detroit, Michigan, USA; ²Computer Science, University of Georgia, Athens, Georgia, USA; ³Emergency Department, Wayne State University, Detroit, Michigan, USA (2233101)

* Denotes highlight lecture

11:35 SS 164: Chemical Exchange Saturation Transfer (CEST) MRI of Cortical Gray Matter in Multiple Sclerosis

Adrienne N. Dula¹, Siddharama Pawate², Lindsey M. Dethrage³, Benjamin N. Conrad³, Seth A. Smith¹
¹Radiology and Radiological Sciences, Vanderbilt University Medical Center, Nashville, Tennessee, USA; ²Neurology, Vanderbilt University Medical Center, Nashville, Tennessee, USA; ³Vanderbilt University Institute of Imaging Science, Vanderbilt University Medical Center, Nashville, Tennessee, USA (2224805)

***11:45 SS 165: First-in-Human study of [¹⁸F]AA-7: A novel PET tracer for imaging L-type amino acid transporter 1 (LAT1)-positive tumors**

Satoshi Nozaki¹, Tomoko Oshita¹, Yuka Nakatani², Yumi Sasano¹, Kenichiro Yamamoto¹, W. Ewan Hume¹, Yasuhiro Wada², Akira Ishii³, Masaaki Tanaka³, Susumu Shiomi⁶, Naohiro Tsuyuguchi⁷, Kazuya Kodama¹, Yasuyoshi Watanabe²
¹Novel PET Diagnostics Laboratory, RIKEN, Kobe, Hyogo, Japan; ²Center for Life Science Technologies (CLST), RIKEN, Kobe, Hyogo, Japan; ³Department of Physiology, Osaka City University Graduate School of Medicine, Osaka, Osaka, Japan; ⁴Research & Development Department, Nagase Chemtex Corporation, Tatsuno, Hyogo, Japan; ⁵Life & Healthcare Products Department, NAGASE & CO., LTD., Kobe, Hyogo, Japan; ⁶Department of Nuclear Medicine, Osaka City University Graduate School of Medicine, Osaka, Osaka, Japan; ⁷Department of Neurosurgery, Osaka City University Graduate School of Medicine, Osaka, Osaka, Japan (2220071)

12:05 SS 166: Intraoperative fluorescence imaging of folate receptor alpha positive ovarian and breast cancer using the tumor specific agent EC17.

Quirijn R. Tummers¹, Charlotte E. Hoogstins¹, Adam F. Cohen², Cornelis J. van de Velde¹, Philip S. Low³, Gerrit-Jan Liefers¹, Katja N. Gaarenstroom⁴, Jacobus Burggraaf², Alexander L. Vahrmeijer¹
¹Surgery, Leiden University Medical Center, Leiden, Netherlands; ²Centre for Human Drug Research, Leiden, Netherlands; ³Purdue University, West Lafayette, Indiana, USA; ⁴Gynecology, Leiden University Medical Center, Leiden, Netherlands (2233311)

12:15 SS 167: Measuring HER2-receptor expression in metastatic breast cancer using [⁶⁸Ga]ABY-Q25 PET/CT

Jens Sorensen², Joachim Feldwisch¹, Anders Wennborg¹, Helena Olofsson³, Vladimir Tolmachev³, Mark Lubberink², Dan Sandberg², Jörgen Carlsson³, Henrik Lindman³
¹Affibody AB, Solna, Sweden; ²Nuclear medicine and PET, Uppsala University, Uppsala, Sweden; ³Uppsala University, Uppsala, Sweden (2245206)

12:25 SS 168: Imaging of tumor-associated system x_c⁻ activity with 18F-fluoropropylglutamate (FSPG) PET/CT for intracranial malignancies.

Erik Mittra¹, Ryogo Minamimoto¹, Amir Barkhodari¹, Mehran Jamali¹, Andrei Iagaru¹, Bernadette Schneider¹, Aileen Hoehne¹, Mathias Berndt², Norman Koglin², Andrew W. Stephens², Frederick T. Chin¹, Sanjiv S. Gambhir¹
¹Radiology, Stanford University, Stanford, California, USA; ²Piramal Imaging GmbH, Berlin, Germany (2233416)

12:35 SS 169: Clinical translation of a novel dual integrin $\alpha_v\beta_3$ and GRPR targeting PET radiotracer ⁶⁸Ga-NOTA-BBN-RGD

Jingjing Zhang¹, Gang J. Niu², Lixin Lang², Xuefeng Yan², Shaobo Yao¹, Zhaohui Zhu¹, Fang Li¹, Xiaoyuan Chen²
¹Department of Nuclear Medicine, Peking Union Medical College Hospital (PUMCH), Beijing, China; ²National Institute of Biomedical Imaging and Bioengineering, National Institutes of Health, Bethesda, Maryland, USA (2243934)

Scientific Session 22**11:15-12:45 Technology & Software Developments - MRI/PET/SPECT (Room 312)**

Moderators: Jinzi Zheng

11:15 SS 170: 13C MR Molecular Imaging and Chemical Imaging by Indirect Detection and Spin Amplification

Yung-Ya Lin, Zhao Li, Chao-Hsiung Hsu
 Chemistry and Biochemistry, UCLA, Los Angeles, California, USA (2234131)

11:25 SS 171: Simultaneous and spectroscopic molecular imaging of multiple free radical intermediates using in vivo dynamic nuclear polarization-MRI

Fuminori Hyodo, Shinji Ito, Hinako Eto, Tomoko Nakaji, Keiji Yasukawa, Ryoma Kobayashi, Hideo Utsumi
 Kyushu Univ., Fukuoka, Japan (2225063)

11:35 SS 172: New Albira PET generation based on SiPM, a comparison study using the NEMA standard

Laura Moliner Martinez¹, Antonio J. Gonzalez Martinez¹, Carlos Correcher Salvador², Albert Aguilar Talens¹, Julio Barbera Ballester², Liczandro Hernández Hernández¹, Cesar Molinos Solsona², Sven Junge³, Konrad Lankes³, Thomas Bruckbauer³, Jose Benlloch Baviera¹
¹Detectors, Institute for Instrumentation in Molecular Imaging, I3M, Valencia, Valencia, Spain; ²Oncovision, Valencia, Valencia, Spain; ³Bruker Isospin Corporation, Ettlingen, Germany (2232847)

* Denotes highlight lecture

Saturday September 5 (continued)

11:45 SS 173: Functional Mapping of Regional Hematocrit by Simultaneous Imaging of F-18 Albumin and Tc-99m Labeled Red Blood Cells: A Demonstration Study in the Mouse

Michael V. Green², Jurgen Seidel², Mark Williams¹, Elaine M. Jagoda¹, Falguni Basuli³, Peter L. Choyke¹
¹Molecular Imaging Program, NIH/NCI, Bethesda, Maryland, USA; ²Contractor to Leidos Biomedical Research, Inc. (formerly SAIC-Frederick), NCI-Frederick, Frederick, Maryland, USA; ³Imaging Probe Development Center, NIH/NHLBI, Bethesda, Maryland, USA; ⁴Leidos Biomedical Research Inc. (formerly SAIC-Frederick), Frederick, Maryland, USA (2231678)

***11:55 SS 174: Development of a compact helmet-chin PET for high-sensitivity brain imaging**

Taiga Yamaya¹, Eiji Yoshida¹, Hideaki Tashima¹, Naoko Inadama¹, Tetsuya Shinaji¹, Hidekatsu Wakizaka¹, Munetaka Nitta¹, Shusaku Tazawa², Tetsuya Suhara¹, Yasuhisa Fujibayashi¹
¹Molecular Imaging Center, National Institute of Radiological Sciences, Chiba, Japan; ²ATOX Co. Ltd, Tokyo, Japan (2244081)

12:15 SS 175: A Practical Depth-of-Interaction Detector for PET/CT and PET/MR Using Dichotomous-Orthogonal-Symmetry Readout Decoding

Yuxuan Zhang, Han Yan, Hossain Baghaei, Wai-Hoi Wong
 Cancer Systems Imaging, University of Texas MD Anderson Cancer Center, Houston, Texas, USA (2229105)

12:25 SS 176: Low cost, high spatial resolution, depth of interaction PET detector designs using position sensitive sparse sensor (PS3) arrays and dual sided (DS) readout.

Robert Miyaoka, William C. Hunter
 Radiology, University of Washington, Seattle, Washington, USA (2232487)

12:35 SS 177: Global and Local Non-rigid Registration in Sequential Quantitative SPECT/CT for Targeted Radionuclide Therapy

Greta Mok², Ka Weng Leong², Tiantian Li², Edwin C. Ao², Ren-Shyan Liu¹
¹Dept of Nuclear Medicine, Faculty of Medicine, National Yang-Ming University, Taipei, Taiwan; ²Electrical and Computer Engineering, University of Macau, Taipa, Macao (2224518)

Scientific Session 23

11:15-12:45 Preclinical Cell & Tissue Level Studies - Oncology (Room 313 A/B/C)

Moderators: Orit Jacobson and Richard Tavaré

11:15 SS 178: 3-D characterisation of murine spleen and its response to the vascular disrupting agent ZD6126 using optical computed tomography.

Ciara M. McErlean¹, Jessica K. Boulton¹, David J. Collins¹, Martin O. Leach¹, Simon P. Robinson¹, Simon J. Doran¹
¹CRUK Cancer Imaging Centre, Institute of Cancer Research, Sutton, United Kingdom; ²Department of Physics, University of Surrey, Guildford, United Kingdom (2224227)

11:25 SS 179: Intravital multi photon microscopy of intraarterial targeting of genetically engineered Glial Restricted Progenitors (GRPs) to stroke lesion.

Anna Jablonska¹, Daniel J. Shea³, Jeff W. Bulte¹, Mirosław Janowski¹, Konstantinos Konstantopoulos³, Piotr Walczak¹
¹Radiology and Radiological Science, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA; ²Cellular Imaging Section, Institute for Cell Engineering, Johns Hopkins University School of Medicine, Baltimore, Maryland, USA; ³Department of Chemical and Biomolecular Engineering, Johns Hopkins University, Baltimore, Maryland, USA; ⁴NeuroRepair, Mossakowski Medical Research Centre, Polish Academy of Sciences, Warsaw, Poland; ⁵Pathophysiology, Faculty of Medical Sciences, University of Warmia and Mazury, Olsztyn, Poland (2233567)

11:35 SS 180: Precision Visualization of Human Non-Melanoma Skin Cancer Ex Vivo: Implication for Rapid Detection of Surgical Margin and Surgery

Ethan Walker¹, Margaret Mann³, Kord Honda³, Allison Vidimos⁴, Mark Schluchter⁶, Galia Blum⁵, Matthew Bogoy², James Basilion¹
¹Biomedical Engineering, CWRU, Cleveland, Ohio, USA; ²Pathology, Microbiology and Immunology, Stanford University, Stanford, California, USA; ³Dermatology, University Hospital, Cleveland, Ohio, USA; ⁴Dermatology, Cleveland Clinic Foundation, Cleveland, Ohio, USA; ⁵The Hebrew University, Jerusalem, Israel; ⁶Epidemiology & Biostatistics, CWRU, Cleveland, Ohio, USA; ⁷Radiology and NRCR Center for Molecular Imaging, CWRU, Cleveland, Ohio, USA (2226747)

11:45 SS 181: Detection and differentiation of breast cancer sub-types using a cytosolic phospholipase A₂ Near-Infra Red (NIR) activatable fluorophore.

Michael Chiorazzo¹, Anatoly V. Popov², Edward J. Delikatny²
¹Pharmacology, University of Pennsylvania, Philadelphia, Pennsylvania, USA; ²Radiology, University of Pennsylvania, Philadelphia, Pennsylvania, USA (2231288)

- 11:55 SS 182: Identification of a novel phage display-derived peptide targeted to PirB as a promising moiety for molecular imaging of ischemic stroke tissue**
Jie Wang¹, Yuqing Shen², Jing Xia¹, Ying Zhang², Bo Fu¹, Wei Long¹, Dan Lv¹, Jianqiong Zhang² ¹Medical School, Key Laboratory of Developmental Genes and Human Diseases, Nanjing, Jiangsu, China; ²Department of Microbiology and Immunology, Southeast University, Nanjing, China (2232892)
- 12:05 SS 183: Cetuximab-IRDye700DX Tissue Levels and IRDye700DX Histologic Locations in Cynomolgus Macaques Following i.v. Cetuximab-IRDye700DX**
Esther de Boer¹, Eben L. Rosenthal⁵, Sharon Samuel³, Jason M. Warram¹, David N. French³, Trenton R. Schoeb⁴, Kurt R. Zinn³ ¹Surgery, University of Alabama at Birmingham, Birmingham, Alabama, USA; ²Surgery, University Medical Center Groningen, Groningen, Netherlands; ³Radiology, University of Birmingham Alabama, Birmingham, Alabama, USA; ⁴Genetics, University of Alabama at Birmingham, Birmingham, Alabama, USA; ⁵Otolaryngology, Stanford University, Stanford, California, USA (2232418)
- 12:15 SS 184: Single Plane Illumination Microscopy (SPIM): a new tool for tumor cell detection in mouse brains**
Julia Bode¹, Peter Wirthschaft¹, Michael Breckwoldt², Rakesh Sharma¹, Björn Tews¹ ¹Molecular Mechanisms of Tumor Invasion, German Cancer Research Center, Heidelberg, Germany; ²Neuroradiology, University Hospital Heidelberg, Heidelberg, Germany (2229329)
- *12:25 SS 185: Dynamic 3D (4D) microscopic imaging of cancer cell death during near infrared photoimmunotherapy.**
Hisataka Kobayashi¹, Mikako Ogawa², Toyohiko Yamauchi³, Yuko Nakamura¹, Tadanobu Nagaya¹, Kazuhide Sato¹, Abhishek Kumar⁴, Hari Shroff⁴, Peter L. Choyke¹ ¹Molecular Imaging Program, NCI/NIH, Bethesda, Maryland, USA; ²Medical Photonics Research Center, Hamamatsu Medical University, Hamamatsu, Japan; ³Central Research Laboratory, Hamamatsu Photonics K. K., Hamamatsu, Japan; ⁴NIBIB/NIH, Bethesda, Maryland, USA (2230292)
- 11:25 SS 187: Dynamic Contrast Enhanced (DCE) MRI detects changes in vascular permeability following treatment with thermally-sensitive liposomal doxorubicin**
Brett Fite, Josquin Foiret, Lisa M. Mahakian, Sarah M. Tam, Katherine Ferrara, Azadeh Kheiroolomoom Biomedical Engineering, University of California Davis, Davis, California, USA (2233705)
- 11:35 SS 188: Evaluation of high-intensity focused ultrasound ablation of prostate tumor with hyperpolarized C¹³ imaging biomarkers**
Jessie Lee, Chris J. Diederich, Vasant A. Salgaonkar, Robert Bok, Andrew G. Taylor, John Kurhanewicz UCSF, San Francisco, California, USA (2233633)
- 11:45 SS 189: A highly efficient hyperpolarized ¹³C xenobiotic for *in vitro* and *in vivo* evaluation of carboxylesterase activity.**
Federico Maisano², Claudia Cabella², Luigi Miragoli², Sonia Colombo Serra², Fabio Tedoldi², Pernille R. Jensen¹, Magnus Karlsson¹, Mathilde H. Lerche¹ ¹Albeda Research Aps, Copenhagen, Denmark; ²Bracco Imaging SpA, Collettero Giacosa, Torino, Italy (2230053)
- *11:55 SS 190: Labeling monocytes with gold nanoparticles to track their recruitment in atherosclerosis**
Peter Chhour¹, Pratap C. Naha², Johoon Kim¹, Sean O'Neill¹, Muredach P. Reilly¹, Victor A. Ferrari¹, David P. Cormode² ¹University of Pennsylvania, Philadelphia, Pennsylvania, USA; ²Radiology, University of Pennsylvania, Philadelphia, Pennsylvania, USA (2227396)
- 12:15 SS 191: Physicochemical, biological, and imaging performance of zwitterionic-coated TaO nanoparticles as CT contrast agents**
Jeannette Roberts¹, Peter J. Bonitatibus Jr¹, Matthew Butts¹, Robert E. Colborn¹, Peter M. Edic¹, Paul FitzGerald¹, Jack W. Lambert², Michael Marino¹, Andrew Torres¹, Benjamin M. Yeh² ¹GE Global Research, Niskayuna, New York, USA; ²University of California, San Francisco, California, USA (2221310)
- 12:25 SS 192: Gold silver alloy nanoparticles (GSAN): a contrast agent for both dual energy x-ray mammography and computed tomography**
Pratap C. Naha¹, Lahari Uppuluri¹, Kristen Lau¹, Shaameen Mian², Rabe'e Cheheltani¹, Peter Chhour², Elizabeth McDonald¹, Andrew D. Maidment¹, David P. Cormode¹ ¹Radiology, University of Pennsylvania, Philadelphia, Pennsylvania, USA; ²Bioengineering, University of Pennsylvania, Philadelphia, Pennsylvania, USA (2233084)
- 12:35 SS 193: Amine-terminated Polyethylene Glycol Functionalized Gold Nanostars for X-ray/CT Imaging and Photothermal Therapy In Vivo Animal**
Shouju Wang, Ying Tian, Guangming Lu Jinling Hospital, Nanjing, China (2229234)

Scientific Session 24

11:15-12:45 Chemistry & Imaging Probes - MRI/CT (Room 314)
Moderators: Chia-Hao Su and Craig Malloy

- 11:15 SS 186: Resonance frequency-shifting nitroxide for probing proteolytic activity *in vivo* using the Overhauser-enhanced MRI technique**
Neha Koonjoo¹, Gérard Audran², Lionel Bosco², Paul Brémond², Jean-Michel Franconi¹, Sylvain R. Marque², Philippe Massot¹, Philippe Mellet¹, Elodie Parzy¹, Eric Thiaudière¹ ¹University of Bordeaux - CNRS - UMR5536, Bordeaux, France; ²ICR - UMR CNRS 7273, Marseille, France (2226463)

* Denotes highlight lecture

Saturday September 5 (continued)

Scientific Session 25

11:15-12:45 Chemistry & Imaging Probes - Nuclear Imaging (Room 315)

Moderators: Peter Conti and Keon Wook Kang

11:15 SS 194: Six PET Tracers Target a Single Epitope of Integrin $\alpha v \beta 6$ in Pancreatic Cancer
Richard Kimura, Chao Zhang, Sanjiv S. Gambhir
Radiology, Stanford University, Stanford, California, USA (2226851)

***11:25 SS 195: Synthesis and biological evaluation of a novel ^{18}F -labelled tetrazine for bioorthogonal chemistry**
Outi M. Keinänen¹, Xiang-Guo Li², Naveen K. Chenna³, Dave Lumen¹, Mirka Sarparanta¹, Kerttuli Helariutta¹, Tapani Vuorinen³, Anu J. Airaksinen¹
¹Laboratory of Radiochemistry, University of Helsinki, Helsinki, Finland; ²Turku PET Centre, Turku University Hospital, Turku, Finland; ³Department of Forest Products Technology, Aalto University School of Chemical Technology, Espoo, Finland; ⁴Department of Radiology and Program in Molecular Pharmacology and Chemistry, Memorial Sloan Kettering Cancer Center, New York, New York, USA (2225739)

11:45 SS 196: Novel ^{89}Zr based cell-labeling method for PET imaging of cell trafficking
Aditya Bansal¹, Mukesh K. Pandey³, Yunus Demirhan¹, Jonathan J. Nesbitt², Binxia Yang⁴, Ruben J. Crespo-Diaz², Andre Terzic², Sanjay Misra⁴, Atta Behfar², Timothy R. DeGrado¹
¹Radiology, Mayo Clinic, Rochester, Minnesota, USA; ²Cardiovascular Diseases, Mayo Clinic, Rochester, Minnesota, USA; ⁴Vascular & Interventional Rad, Mayo Clinic, Rochester, Minnesota, USA (2233842)

11:55 SS 197: Convenient One-Step Nucleophilic [^{124}I]-Iodinations of Diaryliodonium Salts
Stephen G. DiMagno³, Bao Hu³, Scott M. Apana¹, Khaled Dostzada⁴, Joseph E. Blecha², Destiny L. Lusinger¹, Henry VanBrocklin⁴, Marc S. Berridge¹
¹3D Imaging, Little Rock, Arkansas, USA; ²Radiology and Biomedical Imaging, University of California San Francisco, San Francisco, California, USA; ³Chemistry, University of Nebraska-Lincoln, Lincoln, Nebraska, USA; ⁴Radiology, UCSF School of Medicine, San Francisco, California, USA (2244419)

12:05 SS 198: ^{18}F -Boramino Acid: the Traceable Amino Acid Mimicks for Cancer Imaging
Zhibo (Zippo) Liu², Dale O. Kiesewetter¹, Gang Niu³, Xiaoyuan Chen⁴
¹NIBIB/LOMIN, NIH, Bethesda, Maryland, USA; ²NIBIB, National Institute of Health, Bethesda, Maryland, USA; ³National Institutes of Health, Bethesda, Maryland, USA; ⁴National Institute of Biomedical Imaging and Bioengineering, National Institutes of Health, Bethesda, Maryland, USA (2244848)

12:15 SS 199: Development of Iodinated PARP Inhibitors for Glioblastoma Imaging
Beatriz Salinas Rodriguez¹, Christopher Irwin¹, Susanne Kossatz¹, Wolfgang Weber¹, Thomas Reiner¹
¹Radiology, Memorial Sloan Kettering Cancer Center, New York, New York, USA; ²Molecular Pharmacology and Chemistry Program, Memorial Sloan Kettering Cancer Center, New York, New York, USA; ³Center for Molecular Imaging and Nanotechnology, Memorial Sloan Kettering Cancer Center, New York, New York, USA (2234016)

12:25 SS 200: Click Chemistry For Targeting Group Attachments to Heat Induced Radiolabeled (HIR) Feraheme Nanoparticles
Moses Q. Wilks¹, Hushan Yuan¹, Marc D. Normandin¹, Lee Josephson¹
¹Massachusetts General Hospital, Charlestown, Massachusetts, USA; ²Harvard Medical School/MGH, Boston, Massachusetts, USA (2232225)

12:35 SS 201: Radionuclide embedded Gold Nanoparticles as a high sensitive and stable nuclear medicine imaging platform for *in vivo* DCs tracking
Sang Bong Lee¹, Su Bi Ahn¹, Ho Won Lee¹, Seul-Gi Oh¹, Thoudam Debraj Singh¹, Shin Young Jeong¹, Sang-Woo Lee¹, Byeong-Cheol Ahn¹, Dong-Kwon Lim⁴, Yong Hyun Jeon¹, Jaetae Lee¹
¹Nuclear Medicine, School of Medicine, Kyungpook National University, Daegu, Korea (the Republic of); ²Leading-edge Research Center for Drug Discovery and Development for Diabetes and Metabolic Disease, Kyungpook National University Hospital, Daegu, Korea (the Republic of); ³Daegu-Gyeongbuk Medical Innovation Foundation (DGMIF), Daegu, Korea (the Republic of); ⁴KU-KIST Graduate School of Converging Science and Technology, Korea university, Seoul, Korea (the Republic of) (2232603)

Scientific Session 26

11:15-12:45 Preclinical *in vivo* Studies - Oncology: Many Modalities (Room 320 (EMALANI THEATRE))
Moderators: Robert Gillies and Vani Vijayakumar

11:15 SS 202: Feasibility and Reproducibility of Three-dimensional Ultrasound Molecular Imaging of Tumor Angiogenesis using a Clinical Matrix Array Ultrasound Transducer
Huajun Wang¹, Osamu F. Kaneko¹, Lu Tian², Dimitre Hristov³, Juergen K. Willmann¹
¹Department of Radiology, Molecular Imaging Program at Stanford, Stanford University, School of Medicine, Stanford, California, USA; ²Department of Health, Research & Policy, Stanford University, Stanford, California, USA; ³Department of Radiation Oncology, Stanford University, Stanford, California, USA (2230751)

* Denotes highlight lecture

11:25 SS 203: *In Vivo* Verification of Efficient Radioisotope Energy Transfer (RET) by Gold Nanoclusters for Molecular Imaging and Therapy.

Olga Volotskova¹, Jason H. Stafford¹, Conroy Sun³, Ai Leen Koh⁴, Guillem Prats⁵, Lei Xing² ¹Radiation Oncology, Stanford, Palo Alto, California, USA; ²Radiation Oncology, Stanford University, Stanford, California, USA; ³Department of Pharmaceutical Sciences, Oregon State University, Corvallis, Oregon, USA; ⁴Stanford Nano Shared Facilities, Stanford, Stanford, California, USA (2234042)

11:35 SS 204: Receptor Targeted Theranostic Nanoparticles for Targeted and Image-guided Therapy of Stromal-rich and Drug Resistant Human Cancer

Hongyu Zhou¹, Weiping Qian¹, Xiangxue Guo¹, Liya Wang², Hongyu Chen³, Andrew Wang³, David Kooby¹, Malgorzata Lipowska², Charles A. Staley¹, Ruth M. O'Regan⁴, Toncred A. Styblo¹, Hui Mao², Lily Yang¹ ¹Surgery, Emory University School of Medicine, Atlanta, Georgia, USA; ²Radiology and Imaging Sciences, Emory University, Atlanta, Georgia, USA; ³Ocean nanotech LLC, San Diego, California, USA; ⁴Hematology and Oncology, Emory University, Atlanta, Georgia, USA (2235221)

***11:45 SS 205: A novel PET tracer enabling *in vivo* imaging of poly(ADP ribose) polymerase-1 activity for precision cancer medicine.**

Adam Shuhendler¹, Lina Cui¹, Jianguo Lin², Bin Shen¹, Michelle L. James³, Timothy H. Witney¹, Magdalena Bazalova-Carter¹, Niladri Chattopadhyay¹, Sanjiv S. Gambhir⁴, Frederick T. Chin⁵, Edward Graves¹, Brian Rutt⁶, Jianghong Rao⁷ ¹Radiology, Stanford University, Stanford, California, USA; ²Jiangsu Institute of Nuclear Medicine, Key Laboratory of Nuclear Medicine, Wuxi, China (2231763)

12:05 SS 206: Nanoreporter technology allows imaging-facilitated prognoses of anti-cancer nanotherapy efficacy

Carlos Perez Medina¹, Dalya Abdel-Atti³, Zahi . Fayad¹, Jason S. Lewis⁴, Willem J. Mulder¹, Thomas Reiner⁵ ¹Translational and Molecular Imaging Institute, Mount Sinai, New York, New York, USA; ²Centro de Investigación en Red de Enfermedades Respiratorias, Madrid, Spain; ³Radiology, Memorial Sloan Kettering Cancer Center, New York, New York, USA; ⁴Weill Cornell Medical College, New York, New York, USA (2229740)

12:15 SS 207: EpCAM as multi-tumour target for fluorescence guided surgery in animal models

Pieter Van Driel³, Martin Boonstra², H.A.J.M. Prevoo², Martijn Van de Giessen², T.J.A. Snoeks³, Quirijn R. Tummars², Stijn Keerweer¹, Cornelis J. van de Velde², P.J.K. Kuppen², Alexander L. Vahrmeijer², Clemens W. Iowik³, Cornelis F. Sier² ¹Otorhinolaryngology Head and Neck Surgery, Erasmus Medical Center, Rotterdam, Netherlands; ²Surgery, Leiden University Medical Center, Leiden, Netherlands; ³Radiology & Molecular Imaging, Leiden University Medical Center, Leiden, Netherlands (2233315)

12:25 SS 208: In Vivo Stabilized Theranostic Agent for PET Imaging and Radionuclide Therapy of Prostate Cancer

Kristell L. Chatalic¹, Mark Konijnenberg³, Julie Nonnekens⁶, Erik de Blois³, Sander Hoebein⁵, Corrina de Ridder⁵, Berthold Nock², Theodosia Maina², Wytse van Weerden⁵, Marion de Jong³ ¹Nuclear Medicine, Erasmus MC, Rotterdam, Netherlands; ²Molecular Radiopharmacy, INRASTES, NCSR "Demokritos", Athens, Greece; ³Department of Nuclear Medicine, Erasmus MC, Rotterdam, Netherlands; ⁴Department of Radiology, Erasmus MC, Rotterdam, Netherlands; ⁵Department of Urology, Erasmus MC, Rotterdam, Netherlands; ⁶Department of Human Genetics, Erasmus MC, Rotterdam, Netherlands (2233632)

12:35 SS 209: Novel uPAR-targeted near-infrared fluorescent tracer for image-guided real-time *en vivo* detection of squamous cell carcinoma and cervical lymph node metastases in oral cancer in mice

Anders Christensen¹, Karina Juhl², Morten Persson², Birgitte Charabi¹, Jann Mortensen², Katalin Kiss³, christian v. buchwald¹, Andreas Kjaer² ¹Department of ORL-Head & Neck Surgery, Rigshospitalet, Copenhagen, Denmark; ²Department of Clinical Physiology, Nuclear Medicine & PET and Cluster for Molecular Imaging, Rigshospitalet & University of Copenhagen, Copenhagen, Denmark; ³Department of Pathology, Rigshospitalet, Copenhagen, Denmark (2240374)

12:45-13:45 Lunch Break & Visit Exhibits
(KAMEHAMEHA EXHIBIT HALL 2 & 3)

Saturday September 5 (continued)

Poster Session 4

13:45 – 14:45 Poster Session (KAMEHAMEHA EXHIBIT HALL)

Odd Numbers will be presented during the first 30 minutes of the session and even numbers during the second 30 minutes. For a complete list of individual abstracts, refer to pages 73-100

First-in-Human & Clinical Studies

- Oncology

Preclinical in vivo Studies

- Oncology
- Reporter Genes, Signal Transduction & Epigenetics

Technology & Software Developments

- Clinical PET/SPECT
- CT
- Hybrid Multimodality
- MRI
- Optical Imaging
- Photo-Acoustic Imaging
- Preclinical PET/SPECT
- Systems Biology
- Ultrasound

14:45-15:00 Break (KAMEHAMEHA EXHIBIT HALL 2 & 3)

Closing Ceremony

15:00-17:00 Closing Ceremony, YIA Award & Highlight Lecture by John Gore (KALAKAUA BALLROOM B&C)
Moderators: H. Charles Manning and Fabian Kiessling

15:00 PLS 7: Highlight Lecture
 John Gore Vanderbilt University, New York, New York, USA (2287784)

Gala Event

17:30-22:00 Island Luau Under the Stars (HILTON HAWAIIAN VILLAGE - KALAKAUA BALLROOM B&C)

* Denotes highlight lecture

Poster Session 1

Chemistry & Imaging Probes

CT

- P001: Gold encapsulated polyphosphazene nanospheres as biodegradable contrast agents for computed tomography and photoacoustic imaging
Rabee Cheheltani, University of Pennsylvania
- P002: Radioluminescence Characterization of Europium-doped Yttrium Oxide Nanoparticles for X-ray Dosimetry
Jeffrey Souris, The University of Chicago
- P003: RGD peptide-modified PEGylated dendrimer-entrapped gold nanoparticles for targeted CT imaging of breast carcinoma
Kangan Li, Shanghai First People's Hospital, Shanghai Jiaotong University School of Medicine

MRI

- P004: In vivo Overhauser-enhanced MRI of Proteolytic Activity
Neha Koonjoo, University of Bordeaux - CNRS - UMR5536
- P006: Immune-modulating effects of the FDA approved iron oxide nanoparticle ferumoxytol inhibit tumor growth
saeid zanganeh, Stanford Medical School
- P007: QUESPOWR MRI of the human brain
Edward Randtke, University of Arizona
- P008: Spatiotemporal opening of brain blood barrier by MRI-guided HIFU activation of transgene expression of stem cells
Xiaobing Xiong, Wake Forest University Baptist Health
- P009: Imaging L-lactate by CEST using paramagnetic shift reagents
Lei Zhang, University of Texas at Dallas, The University of Texas Southwestern Medical Center
- P010: A Temperature Sensitive, Cobalt-based PARACEST Agent for MR Thermometry
Joseph Sperryak, Roswell Park Cancer Institute
- P011: Spiropyran Sensors of Glutathione and Cysteine: Substituent Effects on Thiol Selectivity.
Brandon Tautges, University of California, Davis
- P012: High Contrast T2 MRI Nanoprobes with Minimal Complement Activation and Immune Recognition in Mice
Dmitri Simberg, University of Colorado
- P013: Dual Modal Mr/Fluorescent Zinc Sensing Probes for Diabetes Imaging
Graeme Stasiuk, University of Hull, Imperial College London
- P014: A Bio-Mimic Method for Labeling Stem Cells and Immune Cells with Ferumoxytol for Cell Tracking by Magnetic Resonance Imaging
Li Liu, Carnegie Mellon University
- P015: Efficient Magnetic Resonance Imaging of lymph node using Hyaluronic Acid-conjugated Iron Oxide nanoparticles
Ming-Chun Lin, Industry Technology Research Institute
- P017: Multiparametric tumor characterization and therapy response evaluation by hyperpolarized ¹³C magnetic resonance spectroscopic imaging
Rickmer Braren, Technische Universität München
- P018: Synthesis, deuterium enrichment, and characterization of a novel biosensor for pH-imaging
Christian Hundshammer, Klinikum rechts der Isar/ Technical University Munich, Technische Universität München
- P019: Hyperpolarized ¹⁵N-labeled Imidazoles: New pH MR Imaging Agents with Long Relaxation Times
Chalermchai Khemtong, UT Southwestern medical center
- P021: Efficient preparation and pilot in vivo studies of hyperpolarized ¹³C-phospholactate metabolic contrast agent
Roman Shchepin, Vanderbilt Medical Center
- P022: New class of high-relaxivity MnIII-based contrast agents as platforms for targeted intracellular magnetic resonance molecular imaging
Ali Barandov, Massachusetts Institute of Technology
- P023: Developing a Copper responsive MRI Contrast Agent
Namini Paranawithana, UT Dallas
- P024: In-vivo hyperpolarized ¹³C flow-suppressed MRSI in mouse liver
Hansol Lee, Yonsei University
- P025: Paramagnetic small size mesoporous silica nanoparticles for targeted fluorescence and magnetic resonance imaging of tumor
He Hu, University of Torino, Shanghai Normal University
- P026: Zinc responsive MRI Contrast Agents for in vivo Imaging
Andre Martins, UT Dallas
- P028: Styrylbenzoxazole and curcumin derivatives that have preferred features of a fluorine-¹⁹ MRI probe for amyloid imaging
Ikuo Tooyama, Shiga University of Medical Science
- P029: Using Mortality Force to Illustrate Probable Onset Age of Spinocerebellar Ataxia Type 3 Based on Magnetic Resonance Spectroscopy Measurements
Po-Shan Wang, The Neurological Institute, Taipei Municipal Gan-Dau Hospital, Taipei, Taiwan, ROC, National Yang-Ming University
- P030: Spatially Resolved Quantification of Gd (III)-based Magnetic Resonance Agents in Tissue by MALDI Imaging Mass Spectrometry after in vivo MRI
Moritz Wildgruber, TU München
- P031: Longer-Lived Hyperpolarized Propane Gas for Biomedical Imaging Application
Eduard Chekmenev, Vanderbilt University
- P032: Hyaluronic Acid Conjugated Superparamagnetic Iron Oxide Nanoparticle for Cancer Diagnosis and Hyperthermia Therapy
REJU THOMAS, Chonnam National University Medical School
- P033: Transcranial Manganese Delivery for Neuronal Tract Tracing using MEMRI
Tatjana Atanasijevic, NIH, NINDS
- P034: Core-shell Fe₃O₄/Gd₂O₃ nanocube as T1- T2 Dual-Modal Contrast Agent
Fenfen Li, University of Science and Technology of China
- P035: Design of Protein-based MRI Contrast Agents (ProCAs) for Molecular Imaging of Cancer Metastasis
Jenny Yang, Georgia State University
- P036: Blood-Brain Barrier-Permeated Nanocomposites for Theranostic Molecular Imaging in Brain Tumor
Chia-Hao Su, Kaohsiung Chang Gung Memorial Hospital, National Yang Ming University
- P037: Thioredoxin Sensing MRI T1 Contrast Agent
Jongun Kang, Korea Basic Science Institute, Chungnam National University
- P038: Co-polarization of HP001 and pyruvic acid for hyperpolarized ¹³C studies
Albert Chen, GE Healthcare
- P039: Cognitive, Emotional and Motor-related Cortical Regions Involved in Spinocerebellar Ataxia Type 3 using Copula modularity
Yu-Te Wu, Institute of Biophotonics
- P040: Development about ¹⁹F chemical shift imaging of DNA conformation change
Shigetaka Nakamura, Japan advanced institute of science and technology

Poster Session 1 (continued)

Multimodal

P042: Combined PET-MRI: Correlating FET and Gd-DTPA perfusion for advanced pharmacokinetic modelling

Marie Anne Richard, Université de Sherbrooke

P043: Facilitating Probe Delivery and Retention in Tumors with 3 nm Ultrasmall Iron Oxide Nanoparticle as Observed via Magnetic Resonance and Multiphoton Imaging

Hui Mao, Emory University

P044: MR-Optical dual-modality neuronal MHC1 targeting peptide for early diagnosis of ischemic stroke in vitro and in vivo

Jing Xia, Key Laboratory of Developmental Genes and Human Diseases

P045: Pretargeting Cancer with TCO-derivatized pH (Low) Insertion Peptide (pHLIP): Syntheses, Biophysical Studies, and In Vitro Analysis.

Dustin Demoin, Memorial Sloan Kettering Cancer Center

P046: Targeted imaging of GRP receptor-expressing prostate cancer with 68Ga/IRDye-650 conjugated bombesin antagonist

Hanwen Zhang, Memorial Sloan Kettering Cancer Center

P047: Construction of a Novel uPAR targeted Multimodal Imaging Probe Using Strained Cyclooctyne Scaffold and Thiol-Yne Chemistry

Yao Sun, wuhan university, Stanford University

P048: Molecular imaging of atherosclerotic plaque via osteopontin targeted Cy5.5 labeled Fe₃O₄ magnetic nanoparticle probe

HongYu Qiao, Xijing Hospital, Xi'an, Shaanxi, China

P049: Reveal of accumulation mechanism of hypoxia imaging probe "FMISO" in tumors by imaging mass spectrometry: A possible involvement of low-molecular metabolite

Yoichi Shimizu, Hokkaido University, Hokkaido University

P050: A radiolabeled fluorescent nanoprobe electrostatically assembled with hyaluronic acid for tumor-targeted nuclear and optical imaging

Masayori Hagimori, Kobe Pharmaceutical University

P051: 64Cu labeled superparamagnetic iron oxide nanoparticles (SPIONs) as a PET/MR imaging agent.

Renata Madru, Lund University

P052: Establishment of an Optical/Magnetic Dual-modality Probe for Targeted Gastric Cancer In Vivo Imaging

Changhao Liu, Xijing Hospital, Fourth Military Medical University

P053: Use of Folate-Conjugated Multifunctional MR Imaging Agents to Target Activated Macrophages in ApoE^{-/-} Mice

Yuyu Yao, southeast university, southeast university

P054: Multimodal Nano Probe for in vivo Cell Tracking.

Manuela Ventura, TECHNIA Institute for the Advancement of Technology for Health, University Health Network

P055: Characterization of site-selective single and dual-conjugated antibodies for in vivo imaging and therapeutic applications

Brian Agnew, Thermo Fisher Scientific

P056: Development of a Multimodality Imaging Dextran Microsphere-based Embolic Platform

Bryan Hoang, University Health Network

P057: A glycogen-based multimodal imaging nanoprobe is effectively internalised into human melanoma metastatic cells

Frits Thorsen, University of Bergen, University of Bergen

P058: PET/MR multimodal theranostics: Direct gallium-68 radiolabelling of silica coated iron oxide nanorods for use in multimodal liver imaging and hyperthermia therapy

Benjamin Burke, University of Hull, University of Hull

P059: A modular dual labeling approach for multimodal agent development

Sukhen Ghosh, UT Health Science Center-Houston

P060: Detection of Amyloid- β Plaques in the Brain Using Dual-modality PET/NIR Fluorescent Probes

Hualong Fu, Beijing Normal University

P061: Dual-mode Prussian blue magnetic nanocubes for photoacoustic imaging and MRI

Diego Dumani, The University of Texas at Austin

P062: Near-Infrared Dye-Conjugated Hyaluronic Acid Nanoparticles for In Vivo Multimodal Imaging Guided Photothermal Therapy

Xiaolong Liang, Institute of Biophysics, Chinese Academy of Science

P063: Hepatobiliary excretion study using in vivo optical and PET imaging of 64Cu-labeled lanthanide-doped upconverting nanoparticles

Sang Hwan Nam, Korea Research Institute of Chemical Technology

P064: Using Multimodal Imaging to Study Mode of Action of Therapeutic Antibodies

Daniel Gutierrez, ETH Zurich, Roche

P065: Tunable Composite Nanocarriers for Magnetic Resonance Imaging, Multimodal Imaging and Theranostic Applications

Robert Prud'homme, Princeton University

P066: Development of Multifunctional Nanoparticles for Multimodal Imaging

Chang Kyu Sung, SNU-SMG Boramae Medical Center

P067: Synthesis and characterization of Ga-68 labeled water dispersible Fe₃O₄ NPs for dual applications as diagnostic imaging agent in PET/ MRI

Bo-Bae Cho, Dongguk university

P068: Construction and in vitro Characterization of Dual-modality SPECT/MR Nanoprobes Targeting HAB18G/CD147 in Breast Tumors

Mingru Zhang, First Affiliated Hospital of the Fourth Military Medical University

P069: A new prototype pegylated gold nanoparticles: more uniform in size for fast, efficient bioconjugation

Biyang Xu, NIH

P070: Intrinsically Radioactive [64Cu] Self-Illuminating 64Cu-Doped CaS:Eu@CaS Nanocrystals for in Vivo PET and Optical Tumor Imaging

Tianye Cao, Fudan University, Fudan University Shanghai Cancer Center

P071: Contrast agent for hybrid in-vivo fluorescence/micro-CT imaging system

Ashwinkumar N, Indian Institute of Technology

P072: Study on Target Efficiency of FITC-NGR-GD to HEPG2 Cells In Vitro

xiaoguang you, The Affiliated Hospital of Hainan Medical University

P073: Nanoscaled Metal-Organic Frameworks Working as a Novel Multimodality Imaging Probe

Wenting Shang, Institute of Automation, Chinese Academy of Sciences

Nuclear Imaging

P074: Development of novel tracers for positron emission tomography and single photon computed tomography of poly(ADP-ribose) polymerase-1.

Filip Zmuda, University of Glasgow, University of Glasgow

P075: First in Human Study of PSMA-targeting small drug conjugates (SMDC) for SPECT Imaging (99mTc-EC0652) and Treatment (EC1169) of Men with Recurrent Metastatic Castrate-Resistant Prostate Cancer (MCRPC)

Binh Nguyen, Endocyte, Inc.

P076: In vivo μ SPECT imaging of 99mTc-mebrofenin to assess impaired hepatobiliary transport: a pharmacokinetic modeling study.

Sara Neyt, Ghent University

- P077: Accumulation of 20 nm ^{64}Cu -micelles is enhanced in rat glioblastoma model as compared with ^{64}Cu -liposomes
Jai Woong Seo, University of California, Davis
- P078: Efficient and Site-specific Labeling of Iodine Radioisotope using Copper-Free Click Reaction
Jongho Jeon, Korea Atomic Energy Research Institute
- P079: Towards Chemical Probes of ASCT2 (SLC1A5) As Precision Cancer Imaging Diagnostics
Michael Schulte, Vanderbilt University
- P080: A pretargeted strategy employing Technetium-99m and Rhenium -188 based on bioorthogonal Diels-Alder Click Chemistry for SPECT imaging and radioimmunotherapy
Lynn Francesconi, Hunter College and the Graduate Center of the City University of New York
- P081: ^{68}Ga labeled iNGR with tumor penetrating motif has better PET imaging performance than NGR in CD13 positive tumor
Fei Kang, Xijing Hospital
- P082: ^{64}Cu -lactosaminated human serum albumin as a promising probe for asialoglycoprotein receptor-positive tumor PET imaging
Myung Geun Song, Cancer Research Institute, Institute of Radiation Medicine, Medical Research Center
- P083: Preparation and Biological Evaluation of ^{188}Re -labeled Lactam Cyclized α -MSH Analog for Melanoma Targeting
Young-Don HONG, Korea Atomic Energy Research Institute
- P084: Development of Benzyl [^{18}F]Fluoroacetate Radiosynthesis for PET Imaging of Ischemic Brain Injury
Shinya Kagawa, Shiga Medical Center Research Institute, Kanazawa University
- P085: Novel Sirt1-selective radiotracer substrate [^{18}F] 2FpAHA for PET imaging of epigenetic regulation
Robin Bonomi, Wayne State University
- P086: [^{11}C]MeDAS-PET Imaging of Myelination for Efficacy Evaluation of Novel Myelin Repair Therapies
Chunying Wu, Case Western Reserve University
- P087: Evaluation and comparison of Cu-64 and Ga-68 labeled DOTA-, NOTA- and NODAGA-AMBA in vitro and in vivo in a GRPR expressing prostate cancer model
Ralf Bergmann, Helmholtz - Zentrum Dresden - Rossendorf
- P088: NanoScan SPECT/CT Imaging of Tumor Acidic Microenvironment with $^{99\text{m}}\text{Tc}$ -labeled A Novel pH Low Insertion Peptide
Jiyun Shi, Chinese Academy of Sciences, Peking University
- P089: Discovery and Evaluation of SPARC-targeted Peptides for Detection of Prostate Cancer
Julien Dimastromatteo, University of Virginia / CVRC
- P090: Optimized ^{52}Mn Production for Long-lived PET Applications
Stephen Graves, University of Wisconsin - Madison
- P091: Development and Evaluation of a Small [^{11}C]-Tetrazine as Bioorthogonal PET Probe
Christoph Denk, Vienna University of Technology
- P092: Targeted PET Imaging of COX-1 in Ovarian Cancer
Jashim Uddin, Vanderbilt University School of Medicine
- P093: Targeting phospholipids with ^{68}Ga -DOTA-duramycin and ^{68}Ga -DOTA-DPA for imaging apoptosis in cancer
Junling Li, University of Louisville
- P094: Folic acid-functionalized ultra-small nanographene oxide for molecular imaging of triple negative breast cancer by ^{125}I -radiolabeling and small animal SPECT/CT
Ming-Wei Wang, Fudan University Shanghai Cancer Center, Center for Biomedical Imaging, Fudan University
- P095: CXCR4 Targeted PAMAM Dendrimer Nanoparticles
Wojciech Lesniak, Johns Hopkins School of Medicine
- P096: Novel ^{89}Zr based virus-labeling method for PET imaging of viral trafficking
Aditya Bansal, Mayo Clinic
- P097: Commonly used ^{64}Cu chelating systems in direct comparison: Determination of complex stabilities using a combination of in vitro and in vivo methods
Carmen Waengler, Medical Faculty Mannheim of Heidelberg University
- P098: Evans Blue Conjugates: A General Platform Leverages the Blood Circulation of Peptide Probes
Zhibo (Zippo) Liu, National Institute of Health
- P099: L-Tyrosine Confers Greater Residualising Properties to a d-Amino Acid Rich Residualising Peptide for Radioiodination of Internalising Antibodies
Fook Lee, Oliver Newton John Cancer Research Institute
- P100: [^{11}C]Methyl-JQ1; a novel PET probe for in vivo epigenetic imaging
Kyoko Kakumoto, RIKEN, Center for Life Science Technologies (CLST)
- P101: Synthesis and initial PET imaging evaluation of ^{18}F -FDGamines for imaging the acidic tumor microenvironment in PC3 xenograft mice
Robert Flavell, University of California, San Francisco
- P102: Radiolabeled-Nanoparticles Facilitating In Vivo Tracking of Neural Stem Cells Migrating Towards Glioblastoma
Shih-Hsun Cheng, University of Chicago
- P103: Targeted Gold-Gallium Nanoparticles for Molecular Imaging of EGFR-overexpressing Tumors
Raghuraman Kannan, University of Missouri
- P104: Evaluation of a DOTA-conjugated RGD/Bombesin-antagonist as a potential theranostic agent for prostate cancer using ^{86}Y and $^{90\text{Y}}$
Nilantha Bandara, Washington University School of Medicine
- P105: MetalloProbes: Structure-Activity Relationship Studies and Associated Geometrical Preferences for Identifying Second Generation Myocardial Perfusion PET/SPECT Imaging Agents
Jothilingam Sivapackiam, Washington University School of Medicine
- P106: Radiolabeling of functionalized pyrazoles on the heteroaromatic moiety: potential PET agents for imaging of COX-2 expression.
Artem Lebedev, UCLA
- P107: A screening assay in the search of an alpha-synuclein PET radioligand
Mathieu Verduran, University of Lyon, Lyon Neuroscience Research Center (CNRS UMR5292; INSERM U1028, Univ. Lyon 1)
- P108: ^{18}F -Labeled thymidine analogues as potent and selective PET probes for imaging of human mitochondrial thymidine kinase.
Kai Chen, University of Southern California
- P109: Clinical-grade [^{18}F]FP-R01-MG-F2: Radiosynthesis of $\alpha\text{V}\beta\text{6}$ Integrin ligand for human PET studies
Bin Shen, Stanford University
- P110: Fluselenamyl: A Novel F-18 PET tracer for detection of Alzheimer's disease
SUNDARAM GURUSWAMI, washington university school of medicine
- P111: Synthesis and evaluation of ^{18}F -AmBF $_3$ -phosphonium cation for imaging enhanced negative mitochondrial membrane potential in cancers
Zhengxing Zhang, BC Cancer Agency

Poster Session 1 (continued)

- P112: Comparisons in vitro and in vivo of biological behaviors of carbon-based nanomaterials for theranostic molecular imaging: potential relations with size and shape
Ming-Wei Wang, Fudan University Shanghai Cancer Center, Center for Biomedical Imaging, Fudan University
- P113: Preparation and initial evaluation of a rhodamine-angiotensin conjugate as a breast cancer targeting agent
Subhi Okarvi, King Faisal Specialist Hospital
- P114: Synthesis and evaluation of a 18F-labeled 1,3,5-triazine-substituted benzenesulfonamide for imaging carbonic anhydrase IX expression in tumors with positron emission tomography
Jinhe Pan, BC Cancer Agency
- P115: 5-hydroxytryptamine receptor 2A (5-HT_{2A}) expression and [18F]altanserin accumulation in rodent brain under long-term light/dark environments
Mei-Hui Wang, Institute of Nuclear Energy Research
- P116: An automatic synthesizer for Gallium-68-DOTATATE PET radiopharmaceuticals
Ming-Hsin Li, Institute of Nuclear Energy Research
- P117: The Novel Radiofluorination Strategy of [18F]FBEM as a Thiol Active Prosthetic Group
Mei-Hui Wang, Institute of Nuclear Energy Research
- P118: Radioiodinated 1,2,4,5-Tetrazine (Radio)Synthesis and in vivo Evaluation for Therapeutic Pretargeting
Mitchell Duffy, Westfälische Wilhelms Universität, Westfälische Wilhelms Universität
- P119: In vivo biodistribution of 64Cu labeled human serum albumin tagging different number of azide (N₃)- or DBCO-functional groups for click chemistry approach
Myung Geun Song, Cancer Research Institute
- P120: Design and Development of a Novel Bombesin Peptide analog for the targeting of bombesin-receptor-positive tumors.
Subhi Okarvi, King Faisal Specialist Hospital
- P121: Labeling and stability studies for a tetrameric cyclic RGD peptide based radiopharmaceutical 64/67Cu-cyclam-RAFT-c-(RGDfK)₄
Zhao-Hui Jin, National Institute of Radiological Sciences
- P122: Radiosensitization of HER2-overexpressing cancer cells upon treatment with targeted functionalized silica nanoparticles
Haruka Yamaguchi, Nippon Dental University Graduate School of Life Dentistry at Niigata, Nippon Dental University
- P123: Preparation of 11C-Labeled scFv Antibody by Cell Free Protein Synthesis System
Kae Higuchi, RIKEN Systems and Structural Biology Center
- P124: CXCR4 chemokine receptor targeted probes: Radiopharmaceuticals, azamacrocycles and optimised chelators
Benjamin Burke, University of Hull
- P125: Optimization and characterization of low frequency ultrasound sensitive liposomes with in vitro stability and drug release study and scintigraphic imaging study in xenograft brain tumor mouse
Yi-Hsiu Chung, Chang Gung Memorial Hospital
- P126: Evaluation of 68Ga-labeled small molecules for targeted imaging of PSMA in prostate cancer xenografts
Hanwen Zhang, Memorial Sloan Kettering Cancer Center
- P127: New Insights into the Radiosynthesis of the DAT Imaging PET Tracer [18F]FE-PE21
Yiu-Yin Cheung, Vanderbilt University Medical Center
- P128: Radiofluorinated PET Imaging based on the PARP1 inhibitor Olaparib
Brandon Carney^{1,2}, Giuseppe Carlucci², Christian Brand², Christopher P. Irwin², Wolfgang A. Weber², Thomas Reiner^{2,3} 1 Ph.D. Program in Chemistry, The Graduate Center of the City University of New York, 2 The Graduate Center of the City University of New York, 3 Memorial Sloan Kettering Cancer Center
- P129: A Precursor for Electrochemical radiosynthesis of [18F]-L-DOPA
Fan Yang, UCLA
- P130: Radiosynthesis of [11C]Ibrutinib as a PET tracer
Xia Shao, University of Michigan
- P132: Non-invasive PET-based diagnostic for precision HSP90 therapy in glioblastomas
Alexander Bolaender, Memorial Sloan Kettering Cancer Center
- P133: Frequency of cisplatin induced severe renal injury in patients with solid tumors as determined by radionuclide renal scintigraphy
Muhammad Nouman, Armed forces institute of pathology
- P134: Macrophage Cell Tracking PET imaging using mesoporous silica nanoparticles based on Bioorthogonal Strain-Promoted Cycloaddition.
HyeonJin Jeong, INHA Univ.
- P135: Development of 18F-labeled arginine for in vivo PET imaging of asthma treatment
Tang Tang, University of California, Davis
- P136: Development of a FASTlab Cassette for the Synthesis of [18F]-6-fluoro-L-DOPA Using Diaryliodonium Salts
David Dick, University of Iowa
- P137: Modified method for labeling of 5-fluorouracil with 99mTc and study of its in-vivo behavior in animal.
Naseer Ahmed, Nuclear Medicine, Oncology and Radiotherapy Institute NORI, Quaid -I-Azam University
- P138: Development of Selective Released Chitosan Nanohydrogels for Ischemic Therapy and Radioactive Tracer.
Jeongil Kwon, Chonbuk National University Hospital
- P139: Atherosclerosis Ischemia Markers in Coronary Artery Disease [CAD]: Regulatory Approval Pathway Implications for Routine Clinical Applications versus Development [Surrogate] Marker Applications
Norman LaFrance, Jubilant DraxImage
- P140: Automated Production and Quality Testing of 18F-Labelled Radiotracers Using the BG75 System
Atilio Anzellotti, ABT Molecular Imaging

Optical Imaging

- P142: Enhancing Cerenkov luminescence via radionuclide attachment to High Refractive Index Nanoparticles
Travis Shaffer, Memorial Sloan Kettering Cancer Center, Hunter College and the Graduate Center, City University of New York
- P143: Inhaled near infrared Itrybe nanoparticles for non-invasive tracking of macrophages in a mouse model of allergic airway inflammation.
Joanna Napp, MPI for Experimental Medicine, University Medical Center Göttingen
- P144: A New Bottom-up Approach for the Synthesis of Self-assembled Nanostructures for Molecular Imaging
Brenda Sacher-Gaytan, Icahn School of Medicine at Mount Sinai
- P145: Quantitative Optimization of the Targeting Ligand Density on Fluorescence Enhancing Gold Nanomatryushkas for maximal Target to Background and Tumor Accumulation.
Amit Joshi, Medical College of Wisconsin



- P146: Smart DCM-Based Fluorescence Probes for Cerebral β -Amyloid Plaques
Yan Cheng, Sichuan University
- P147: Bioluminescent Sensor to Image Drug Modulated Protein Sumoylation in Living Animals
Thillai Sekar, Stanford University
- P148: Novel large gold nanorods for ultrahigh contrast and molecular sensitivity in biomedical applications
Elliott SoRelle, Stanford University, Stanford University
- P149: Highly specific inflammation detection using activatable fluorescent nanoprobe
Adah Almutairi, UC San Diego
- P150: Novel TSP0 Ligands for Optical Imaging and High-throughput Screening
Jun Li, Vanderbilt University Institute of Imaging Science, Vanderbilt University Interdisciplinary Materials Science Program
- P151: Anti-EGFR affibody molecules labeled with IRDye 800CW developed for Neurosurgical Fluorescence Image Guidance in a Phase 0 Human Study
Brian Pogue, Dartmouth College
- P152: Selective Imaging of Soluble Amyloid Beta Species Using Near Infrared Fluorescent Curcumin Analogues
Chongzhao Ran, Massachusetts General Hospital/Harvard Medical School
- P153: Fluorescent Activatable Ferritin Nanocomplex for Real-Time Monitoring of Apoptosis during Photodynamic Therapy (PDT)
LEI ZHU, Center for Molecular Imaging and Translational Medicine
- P154: Noninvasive detection of lymph node metastasis in rats using targeted fluorescence molecular imaging with indocyanine green as a paired control agent
Chengyue Li, Illinois Institute of Technology
- P155: Double-targeted Gold Nanoparticles for PDT Drug Delivery in Brain Tumors
Suraj Dixit, Medical University of South Carolina
- P156: Scalable Production of Long Wavelength Fluorescent Nanoparticles to Enable Targeting and Multiplexed Imaging
Robert Prud'homme, Princeton University
- P157: Clinically translatable cathepsin imaging agents that exploit a latent lysosomotropic effect
Matthew Bogoy, Stanford University
- P158: Synthesis and evaluation of Förster Resonance Energy Transfer (FRET) probes detecting changes in cellular redox state
Karolina Jankowska, The University of Sydney
- P159: Pilot study of a novel peptide targeting GPC3 for HCC
Xiaohua Zhu, Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology
- P160: Multifunctional Nanocomplex for Controlled Manipulation and Dynamic Imaging of Sequential mRNA Expression in the Neural Stem Cells Differentiation
Zhongliang Wang, Xidian University
- P161: Development of Small-molecule Fluorescence Probes to Detect Hypoxia in vivo
Kenjiro Hanaoka, The University of Tokyo
- P162: Near-Infrared Optical Imaging Agents with Dual Function: Probe for Necrotic Cells and Cell Fixation Agents for Assays in vitro
Ivana Martinic, CNRS
- P163: A platform-technology for systemic delivery of siRNA to tumors using rolling circle transcription and its applications for optical imaging probes
Hyung Jun Ahn, Korean Institute of Science and Technology
- P164: New approach to hybrid light imaging technique using Cerenkov luminescence and liquid scintillation for beta- and gamma-ray emitted radionuclides
Masako Shimamoto, Kumamoto University
- P165: Targeted delivery of temozolomide to brain tumors using micelle-based theranostics
Kayla Miller, Medical University of South Carolina
- P166: In Vivo Imaging of Transplanted Stem Cells by Near Infrared Region-II (NIR-II) Fluorescence
Hiroshi Yukawa, Nagoya University
- P167: ICG conjugated Trastuzumab as an Agent for Fluorescence Guided Cancer Surgery and Photoimmunotherapy
Insoo Park, National Cancer Center
- P168: In vivo quantifying molecular specificity of Cy5.5-GX1 with dynamic fluorescence imaging
Yunpeng Dai, Xidian University
- P169: ROS-responsive Activatable Prodrug for the Treatment of Metastatic Tumors
Eun-Joong Kim, KBSI
- P170: Upconversion nanoprobe for efficient in vivo sentinel lymph node mapping and quantitative analysis
Hye Sun Park, Korea Basic Science Institute
- P171: A mixture of ICG, Macroaggregated Albumin and Hyaluronic Acid, as a Tracing Agent for Fluorescence Guided Cancer Surgery
Insoo Park, National Cancer Center
- P172: Design and Syntheses of Novel Fluorescent and Biotinylated Tocopherol Probes
Zhen-Dan Shi, National Heart, Lung, and Blood Institute, National Institutes of Health
- P173: A fluorescence resonance energy transfer labeling method to study dissociation kinetics of lipid-based nanoparticles
Sjoerd Hak, Norwegian University of Science and Technology
- P174: Synthetic studies towards nitroreductase-activated fluorescent probes
Elvira García de Jalón, University of Bergen, University of Bergen
- P175: Imaging of Nitric Oxide-Producing Macrophages with a Polymer Micelle-Based Fluorescent Probe
Jun-ichiro Jo, Institute for Frontier Medical Sciences, Kyoto University
- P176: Wavelength shifting Zn²⁺ probe based on pyridine-pyridone core structure
Masayori Hagimori, Kobe Pharmaceutical University
- P177: IRDye 700DX: Characterization of a 3rd generation photosensitizer for photodynamic therapy
Joy Kovar, LI-COR Biosciences
- P178: Targeted, osteolytic-responsive theranostics for cancer induced bone-metastasis
Xuli Wang, University of Utah
- P180: Fluorescent Turn-on chemodosimeter Probe for KCN and Bioimaging
Sankarprasad Bhuniya, Amrita Vishwa Vidyapeetham
- P181: Immunofluorescent labeling of cancer marker Her-2 with Iodoemodin
Jeong Hoon Park, Korea Atomic Energy Research Institute
- P182: Nanotechnologies for Molecular Probes and Quantitative Sensors
Daniel Heller, Memorial Sloan-Kettering Cancer Center, Weill Cornell Medical College
- P183: Engineering of a multi-functional nucleolin-targeted nucleic acid delivery system
Surong Zhang, UMASS Medical School

Poster Session 1 (continued)

P184: Development of a fluorescent probe targeting folate receptors for fluorescence lifetime imaging (FLIM)

Koji NUMASAWA, The University of Tokyo, JST CREST

P185: Advanced fluorescence nano particles for live cells, in vivo imaging, and fluorescence analysis.

Dong hwi Shim, DKC coporation (BIOACTS)

P186: Innovation of New Luciferin Analog for in vivo Imaging

Ryohei Saito, The University of Electro - Communications

Photo-Acoustic Imaging

P187: Temporally unmixed multispectral optoacoustic tomography (tuMSOT) enables high contrast reporter imaging in vertebrate model systems.

Gil Westmeyer, Technical University Munich, Helmholtz Center Munich

P188: Multispectral Optoacoustic Tomography (MSOT) Sensitivity in Detecting Melanoma-derived Cells in Phantoms

David Bates, iThera Medical

P189: In vivo Targeting of Silica-Coated Gold Nanorods for Photoacoustic Imaging

Carolyn Bayer, The University of Texas at Austin

P190: Modular Synthesis of Near Infrared Agents for Targeted Photoacoustic Imaging of Cancer

Lauren Heese, Rochester Institute of Technology, Rochester Institute of Technology

P191: Cyclic RGD micelles facilitate detection of ovarian cancer using multispectral optoacoustic tomography

Lacey McNally, University of Louisville

P192: Optimising Gold Nanorods for Multispectral Optoacoustic (MSOT) Tracking of Stem Cells

Joan Comenge, University of Liverpool

P193: Hybrid Poly Acrylate Nanoparticles as Novel Photoacoustic Imaging Probes

Yihong Li, Wenzhou Institute of Biomaterials and Engineering, Chinese Academy of Sciences

P194: Indocyanine green-embedded Nanoparticles as Novel Photoacoustic and Fluorescent Contrast Agents

Yuanhui Song, Wenzhou Institute of Biomaterials and Engineering, Chinese Academy of Sciences

P195: Multimodal ultrasound-photoacoustic imaging for longitudinal monitoring of tissue engineering scaffolds

Yahfi Talukdar, Stony Brook University

P196: Theranostic silver coated gold nanorods for in vivo molecular photoacoustic angiography of tumor

Shouhui Chen, Shanghai Jiaotong University

Ultrasound

P197: Ultrasound Treatment of Doxorubicin-Liposome-Microbubble Complexes in the Tumor Vasculature Enhances Drug Delivery in the Tumor Tissue and Suppresses Tumor Growth

Alexander Klibanov, University of Virginia, University of Virginia

P198: The Development and Evaluation of PSMA-targeted Microbubbles using Bioorthogonal Chemistry for Prostate Cancer Ultrasound Imaging

Aimen Zlitni, McMaster University

P199: Influence of Disturbed Hemodynamics on Microbubble Targeting

Sunil Unnikrishnan, University of Virginia, University of Virginia

P200: Feasibility study of the hair growth enhancements with ultrasound mediated minoxidil loaded microbubbles cavitation

Ai-ho Liao, National Taiwan University of Science and Technology

P201: DNase1 Decrease the Formation of the Size of Vegetation in Experimental Endocarditis Rat Model

Jean-San Chia, College of Medicine, National Taiwan University

First-in-Human & Clinical Studies

Cardiology

P202: Micro-embolic risk at elective revascularization and its relationship with 3D multi-contrast MRI

Venkatesh Mani, Icahn School of Medicine at Mount Sinai, Icahn School of Medicine at Mount Sinai

P203: To evaluate the feasibility of F-18 FDG PET-CT in diagnosis of Infective Endocarditis

Chetan Patel, All India Institute of Medical Sciences, New Delhi

P204: Inhomogeneity in myocardial perfusion gated SPECT of heart transplant recipients is associated with the development of systolic allograft dysfunction

Christian Wenning, University Hospital Münster

P205: Clinical prognosis of patients with discordance result of sestamibi myocardial perfusion SPECT and NH3 PET

Eun-jung Kong, Yeungnam Univ Hospital

P206: 18F-sodium fluoride uptake is a marker of active calcification and disease progression in patients with aortic calcification: Compared with 18F-fluorodeoxyglucose.

Seigo Fujita, Miyazaki Prefectural Nichinan Hospital

Inflammation/Immunology

P207: Quantitative molecular imaging of ACL grafts by FDG PET/MRI

Katherine Binzel, The Ohio State University Wexner Medical Center

P208: 18F Sodium Fluoride Uptake in PET/MR is Associated with Pain and Cartilage Degeneration in Knee Osteoarthritis

Dragana Savic, University of California, San Francisco

P209: A PET/MR study of cartilage-bone interactions in osteoarthritis using T1 ρ dispersion

Dragana Savic, University of California, San Francisco

P210: FDG PET: A prognostic biomarker in Non IPF interstitial lung disease patients

thida Win, East and North Herts NHS Trust

P211: Translation fMRI in rheumatoid arthritis: Investigating the interlock of the immune system and brain function.

Andreas Hess, FAU Erlangen Nürnberg

P212: Discrepant findings unrelated to the primary tumor on 68Ga-DOTATATE PET/CT versus 18F-FDG PET/CT and their potential significance.

Corina Mollo, National Institutes of Health, Clinical Center

Metabolic Disease

P213: Intestinal fatty acid utilization after bariatric surgery – cure for peripheral insulin resistance?

Jukka Koffert, Turku University Hospital, University of Turku

P214: PET quantification of specific and nonspecific VMAT2 binding with 18F-FP-(+)-DTBZ and 18F-FP-(-)-DTBZ in baboons, and healthy volunteers and T1DM patients

Gary Cline, Yale University School of Medicine

P215: Cross-sectional and Test-Retest Characterization of PET with 18F-FP-(+)-DTBZ for β -Cell Mass Estimates in Diabetes

Paul Harris, Columbia University



- P216: Feasibility of ultra-low dose FDG PET imaging for nutrition and metabolism studies and beyond
Michelle Knopp, The Ohio State University Wexner Medical Center, The Ohio State University
- P217: Fixed dose of radioiodine (5 mCi) for the treatment of Graves' disease: is it possible to predict outcome before therapy?
Haifeng Hou, the Second Affiliated Hospital of Zhejiang University School of Medicine
- P218: Hepatic Metabolomic Analysis in Patients with Non-alcoholic Steatohepatitis using 1H MR spectroscopy with Long echo time
Kwon-Ha Yoon, Wonkwang University
- P219: Adefovir dipivoxil-induced Fanconi syndrome and hypophosphatemic osteomalacia in patients with chronic hepatitis B
Ying Zhang, Zhejiang University

Neurology

- P220: Clinical significance of tau accumulation assessed by [11C]PBB3 PET in diverse tauopathies
Hitoshi Shimada, National Institute of Radiological Sciences
- P221: [18F]FDG PET/MRI Of Patients With Chronic Pain Alters Management: Early Experience.
Deepak Behera, Stanford University School of Medicine
- P222: Next Generation Digital PET/CT – First in Human Assessment of New Capabilities and Potential for Neuroimaging
Jun Zhang, The Ohio State University Wexner Medical Center
- P223: First experiences in triple modality characterization of brain connectivity in humans using simultaneous PET/MR/EEG
André Thielcke, University of Tuebingen
- P224: Changes in cerebral glucose metabolism after non-invasive electrical stimulation of mild cognitive impairment patient
Yong-An Chung, Incheon St. Mary's Hospital, The Catholic University of Korea
- P225: The effect of Apolipoprotein E ϵ 4 allele on the morphological and functional neuroimaging in late onset Alzheimer's disease.
Seiju Kobayashi, Sapporo Medical University
- P226: Correlation between crossed cerebellar diaschisis on brain perfusion SPECT and prognosis of functional ambulation in patients with stroke.
Soonah Park, Wonkwang University Medical School
- P227: PET Imaging of Dopamine Dynamics in Romantic Love
Kayo Takahashi, RIKEN, Osaka City University

Preclinical Cell & Tissue Level Studies

Cardiology

- P228: Imaging Cellular Pharmacokinetics of 18F-FDG in Inflammatory Cells
Raiyan Zaman, Stanford University School of Medicine
- P229: Selective cell elimination with near infrared photoimmunotherapy in 2D and 3D mixed cultures and in a mixed tumor model
Kazuhide Sato, National Cancer Institute
- P230: Perfluorocarbon nanodroplets for oxygen delivery and ultrasound image-guided release
Daniela Santiesteban, The University of Texas at Austin
- P231: Validation of capsase-3 biosensor to assess the dynamic function of natural killer cells
Ho Won Lee, School of Medicine, Kyungpook National University
- P232: Molecular Imaging of Cancer Immunotherapy using Activated Antigen Presenting by Multivalent Polymer Nanocomplex
Sun-Young Kim, Sungkyunkwan University
- P233: In vivo optical imaging of stem cells delivered with injectable, thermosensitive extracellular matrix-methylcellulose hydrogels
Jun Sung Kim, Hanyang University
- P234: Pre-clinical In Vivo Stem Cell Tracking using Magnetic Particle Imaging
Bo Zheng, University of California, Berkeley
- P235: Fluorescence Optical Imaging-based Evaluation of the Activation of Dendritic Cells by Protein Nanoparticles
Chanyoung Song, Sungkyunkwan University
- P236: FOXF1 Mediates Lung Cancer Cell Reprogramming to a Stem-like State Following Spontaneous Fusion with Mesenchymal Stem Cells
Win-Ping Deng, Taipei Medical University
- P237: Nanoparticles optimized for efficient stem cell labeling and possessing optimal contrast properties for MRI and MPI
Alexander Kraupner, nanoPET Pharma GmbH

Infectious Disease

- P238: Human sodium iodide symporter as an imaging reporter gene for developing an animal MERS-CoV model
Svetlana Chefer, NIAID, NIH
- P239: Using Mce4 Molecular Beacons for the Detection and Attenuation of Mycobacterial Infection in Macrophages
REMO GEORGE, University of Alabama at Birmingham
- P240: Identifying bacteria-specific positron emission tomography tracers using a three criteria in silico selection screen
Allison Murawski, Johns Hopkins University

Inflammation/Immunology

- P241: Different 18F-FDG accumulation according to glucose-6-phosphatase expression in cancer cells and activated macrophages
Youngeun Lee, Seoul National University, Seoul National University
- P242: SDF-1/CXCR7/ β -catenin signaling promotes mesenchymal stem cell therapy for rheumatoid arthritis via tissue immunomodulation
chia-ching lin, Basic Medical Science

Neurology

- P243: Reporter gene imaging for exosome-mediated transfer of neurogenic miRNA during neuronal differentiation in neural precursor cells
Hyun Jeong Oh, Seoul National University, Seoul National University
- P244: Stripe artifact removal method for selective plane illumination microscopy
Di Dong, Chinese Academy of Sciences

Oncology

- P245: An Optical Imaging Threshold to Detect Head and Neck Cancer during Fluorescence-Guided Surgery
Lindsay Moore, University of Alabama at Birmingham
- P246: Discrepancy between tumor antigen distribution and antibody binding in nude mouse xenograft model of human melanoma
Yong-il Kim, Seoul National University Hospital
- P247: Biomarker Discovery for Acid-adapted Cancer Cells and Their Acidic Microenvironment.
mehdi damaghi, Moffitt Cancer Center
- P248: Radioluminescence Microscopy of FDG: Microenvironmental factors modulating FDG uptake
Silvan Tuerkcan, Stanford University
- P249: Copper-Free 'Click' Chemistry Mediated Directional Bioconjugation of Nanoparticle Contrast Agents
Jason Cook, The University of Texas at Austin
- P250: Targeting glucose regulated protein 78 using a cell penetrating peptide, Pep42, for glioblastoma imaging and therapy.
Taemoon Chung, Cancer Research Institute, Seoul National University college of medicine
- P251: A novel photoacoustic agent for imaging prostate-specific membrane antigen (PSMA) in prostate tissue
Jelena Levi, Canary Center at Stanford
- P252: Preliminary Search for Primo Vascular System Using 3D Digital Histopathology and micro-CT imaging
Joo Ho Tai, Advanced Institutes of Convergence Technology, Seoul National University
- P253: Molecular biomarkers in human pathologies from Fast Field-Cycling MRI
Lionel Broche, University of Aberdeen
- P254: Delivery of Syndecan-1 tagged liposomes into tumor cells via Insulin Growth Factor 1-Receptor-mediated endocytosis
Wenyuan Yin, University of Louisville
- P255: Bidirectional 6 thin light-sheet fluorescence microscopy: Three-dimensional insight into tumor biology and whole mouse organ morphology
Michael Dobosz, Roche Diagnostics GmbH
- P256: The Warburg Effect in Cancer Stem Cells and Targeting of Mitochondrial Glucose Metabolism for Cancer Stem Cell Therapy
Jin Won Park, Samsung Medical Center, Samsung Advanced Institute for Health Science and Technology at Sungkyunkwan University
- P257: Synthesis of gemcitabine and anti-miR-21 coloaded polymer nanoparticles and its cytotoxicity evaluation in hepatocellular carcinoma cells
Rammohan Devulapally, Stanford University
- P258: Hyperpolarized 13C diffusion MRS of copolarized pyruvate and fumarate in the light of monitoring lactate export in different cancer cells
Benedikt Feuercker, Technische Universität München
- P259: 3D motion tracking, clinical fluorescence imaging and confocal microscopy aid drug delivery device development
Tarl Prow, The University of Queensland

- P260: Screening thymidine analogues as potent and selective PET probes of human thymidine kinases.
Kai Chen, University of Southern California
- P261: X-ray Activated Nanoscintillators for Potential Radioluminescence-Guided Cancer Photodynamic Therapy
Shih-Hsun Cheng, The University of Chicago
- P262: Identification and improvement of a linear peptide specific for the Notch ligand delta-like ligand (Dll) 4
Annette Altmann, University Hospital Heidelberg
- P263: Imaging electroporation induced nanopores in Pancreatic cancer in vitro using Atomic Force Microscopy
Derek West, University of Texas HealthSciences Center at Houston
- P264: Individual chemosensitive and chemoresistant cancer cells distinguished by cell-cycle fate-monitoring in drug-treated heterogeneous populations demonstrated by real-time FUCCI imaging
Robert Hoffman, AntiCancer, Inc., University of California San Diego
- P265: Effect of Cx-mimetic peptide administration on breast cancer brain metastasis development: a preclinical serial MRI study
Valerie De Meulenaere, Ghent University
- P266: Antiproliferative effect of microRNA and 4-hydroxytamoxifen coloaded urokinase plasminogen activator receptor (uPAR) targeted polymer nanoparticles in ER+ breast cancer cells
Rammohan Devulapally, Stanford University
- P267: Real-time fluorescence imaging of the DNA damage repair response during mitosis imaged in real-time by 53BP1-GFP focus formation
Robert Hoffman, AntiCancer, Inc., University of California San Diego
- P268: 2-(2-[18F]fluoroethyl)-L-phenylalanine (2-[18F]FELP) versus [18F]FET for peripheral tumor imaging: comparative uptake in various tumor cell lines
Ken Kersemans, Ghent University
- P269: Detection of metabolism in alginate biopsy mimics at 1T using hyperpolarized [1-13C] pyruvate.
Sui Seng Tee, Memorial Sloan Kettering Cancer Center
- P270: BNCT as alternative radiation therapy---an application on radioresistance GBM
Hui-Hsien Lin, Taipei Veterans General Hospital
- P271: Electroporation mediated enhancement of Oregon green-488 Taxol uptake in Pancreatic cancer in vitro
Derek West, University of Texas HealthSciences Center at Houston
- P272: Molecular Imaging of Microcalcifications
Inneke Willekens, UZ Brussel
- P273: Targeting SLC1A5-mediated glutamine dependence in non-small cell lung cancer
Pierre Massion, Vanderbilt University
- P274: Relationship between extracellular glucose concentration and FDG uptake in sarcoma cell lines
Katja Pinker-Domenig, Memorial Sloan Kettering Cancer Center
- P275: Evaluating Targeted Molecular Imaging Agents Using Two- and Three-Dimensional Cell Culture Cancer Models
Irene Evans, Rochester Institute of Technology
- P276: Identification and evaluation of a Dll4-binding peptide based on the cystine-knot miniprotein Min23 scaffold
Annette Altmann, University Hospital Heidelberg
- P277: Imaging the interaction between cellular adhesion and degradation molecules in breast cancer metastasis
Asif Rizwan, Johns Hopkins Medicine

- P278: The Role of Calprotectin (S100A8/A9) in Breast Cancer Malignancy
Yun Zhu and Ann-Marie Broome Center of Biomedical Imaging, Department of Radiology, Medical University of South Carolina
Yun Zhu, MUSC
- P279: Effect of Curcumin on Breast Cancer Cell Glucose Metabolism and Formulation of EGF-Conjugated Curcumin-Lipid Nanoparticles and Anti-Cancer Therapy
Kyung-Ho Jung, Samsung Medical Center, Samsung Advanced Institute for Health and Sciences and Technology at Sungkyunkwan University
- P280: Therapeutic microRNA 145/osmotically active sorbitol modified PEI nanoparticle suppresses cell proliferation in breast cancer cell line
IN KYU PARK, Chonnam National University
- P281: Radiation Effects of Non-uniform Dose Distribution to In-vitro Medulloblastoma on Bioluminescent Imaging
Ji-Yeon Park, Stanford University, The Catholic University of Korea
- P282: Histological characterisation of tumour-inhabiting bacteria and host cells
Kevin Francis, PerkinElmer
- P283: Glycated chitosan retard the metastatic breast cancer cells properties through inhibition Twist that results in reversion of epithelial-to-mesenchymal transition.
Wang Bo-Sheng, Biomedical Imaging and Radiological science
- P284: Preparation method of radiation sensitive copolymer carrier for coating radiated nanoparticles and chemotherapy drugs.
Ming-Hsin Li, Institute of Nuclear Energy Research

Reporter Genes, Signal Transduction & Epigenetics

- P285: Phototoxic effects of nanosecond laser exposure in optoacoustic microscopy on cells expressing genetic fluorescence reporters
Sven Gottschalk, Helmholtz Zentrum München
- P286: Mitophagy: What happens in vivo?
Nuo Sun, NIH/NHLBI

Late Breaking Posters

- LBAP 001: Hyperpolarized 31P Phosphonates: initial in vivo Experience
Robert Gillies, H. Lee Moffitt Cancer Center & Res Institute
- LBAP 002: Development of a clickable bimodal fluorescent/PET probe for in vivo imaging
Christian Brand, Memorial Sloan Kettering Cancer Center
- LBAP 003: A18F-NOTA-T140 Peptide for Noninvasive Visualization of CXCR4 Expression
Xuefeng Yan, Department of Radiology, the Fourth Hospital of Harbin Medical University
- LBAP 004: [11C]Vitamin C exhibits ROS specific-cell uptake
Valerie Carroll, University of California San Francisco
- LBAP 005: Near-infrared fluorescence lymphatic imaging of dysfunction in patients with venous stasis ulcers and improvements with pneumatic compression
Eva Sevic-Muraca, University of Texas Health Science Center
- LBAP 006: In-human validation of the use of pre-treatment molecular imaging for the prediction of patient-specific dosimetry in targeted radionuclide therapy (TRT)
Abigail Besemer, University of Wisconsin
- LBAP 007: Pilot Prospective Evaluation of 68Ga-DOTA-Bombesin (68Ga-RM2) with TOF PET/MRI in Patients with Biochemical Recurrence of Prostate Cancer
Andrei Iagaru, Stanford University

Poster Session 2 (continued)

- LBAP 008: Developing a safe and effective compounding method for hyperpolarized [1-13C] pyruvate to be used in the clinical evaluation of MR molecular imaging in cancer patients
Marcus Ferrone, University of California, San Francisco
- LBAP 009: Head-to-Head Comparison of 89Zr-Df-IAB2M PET/CT to 111 In Capromab Pendetide SPECT/CT Scans in the Detection of Occult Prostate Cancer in Patients Undergoing Radical Prostatectomy (RP) with Negative Conventional Imaging (CI) Studies.
Bernard Gburek, Arizona Urology Specialists
- LBAP 010: 68Ga-PSMA-HBED-CC: developmental aspects of the single kit vial solution for radiolabeling and bio-evaluation in prostate cancer patients
Thomas Ebenhan, University of Pretoria & Steve Biko Academic Hospital, University of KwaZulu Natal
- LBAP 011: Pilot Study on Quantifying Inflammation in Acute Ileitis with Ultrasound Molecular Imaging Following Automated Imaging Fusion with CT/MRI Data Sets: Steps towards Improving Clinical Work Flow
Huaijun Wang, Stanford University
- LBAP 012: In vivo quantification of dopaminergic terminals loss in Parkinson's Disease rat model: comparison between [18F]FMT and [18F]FDOPA.
Guillaume Becker, Centre de recherches du Cyclotron
- LBAP 013: Development of molecularly targeted imaging agents for novel fibroblast markers for early detection and enhanced drug delivery in pancreatic ductal adenocarcinoma.
Lindsey Brinton, University of Virginia
- LBAP 014: Cerium Oxide Nanoparticles for Normal Tissue Protection During Radiation Therapy: Combining Molecular Imaging and Nanotechnology Approaches
Philip McDonagh, Virginia Commonwealth University
- LBAP 015: In Vivo 90Y PET/CT & 7T MRI After Transcatheter Radiation Lobectomy in the Rodent Model: Potential for Partitioned Lobar Dosimetry
Andrew Gordon, Northwestern University, Northwestern University
- LBAP 016: Evaluation of the TSPO radiotracer 18F-PBR316 in prostate tumour models
Filomena Mattner, Royal Prince Alfred Hospital
- LBAP 017: Evaluation of GD2 specific radioimmunoconjugates for in vivo PET Imaging of Neuroblastoma
Julia Schmitt, Eberhard Karls University
- LBAP 018: ImmunoPET imaging of tumors expressing human PDL1 with high-affinity PD1 variants
Aaron Mayer, Stanford University
- LBAP 019: Preclinical PET imaging of prostate cancer with 68Ga-tris(hydroxypyridinone)-PSMA (68Ga-THP-PSMA): Rapid labelling combined with specific targeting.
Jennifer Young, King's College London
- LBAP 020: Evaluation of PSMA-Targeted IgG and Minibody Radiotracers using Multi-Modality Imaging (PET, CLI) in Tumor-Bearing Mice
Harvey Hensley, Fox Chase Cancer Center
- LBAP 021: Ex vivo radiolabeling of HSV1tk-expressing T-cells with [124I]FIAU for clinical PET imaging.
Maxim Moroz, MSKCC
- LBAP 022: Low-dose Positron Emission Mammography (PEM) device for screening of high-risk population.
Alla Reznik, Lakehead University, Thunder Bay Regional Research Institute
- LBAP 023: Quantitative pharmacokinetic analysis of dynamic contrast-enhanced multispectral optoacoustic tomography (DCE-MSOT)
Clinton Hupple, iThera Medical
- LBAP 024: Lipidomics analysis to identify sex-differences in cardiac lipid metabolism
Kooresh Shoghi, Washington University School of Medicine
- LBAP 025: Detection of Alkaline Phosphatase Enzyme Activity with Chemical Exchange Saturation Transfer (CEST) MRI
Iman Daryaei, University of Arizona
- LBAP 026: Measuring pH using Tm(III) and Dy(III) MRI contrast agents in a concentration independent manner
Iman Daryaei, University of Arizona
- LBAP 027: Inflammation-activated MRI contrast agents
Adah Almutairi, UC San Diego
- LBAP 028: Tumor micro-environment responsive surface charge variable nanoparticles for cancer MR imaging and drug delivery
Jinho Park, Eli Lilly and Company, Purdue University
- LBAP 029: Towards Monitoring Antibody Directed Enzyme Prodrug Therapy with catalyCEST MRI
Gabriela Fernandez-Cuervo, The University of Arizona
- LBAP 030: Dual-enzyme detection with catalyCEST MRI
Gabriela Fernandez-Cuervo, The University of Arizona
- LBAP 031: Hydrochalarone™ MRI probes for enhanced molecular imaging
Zhiguo Zhou, Luna Inc.
- LBAP 032: Targeted imaging of MUC-1 Tumor Antigen on Human colon cancer
Bitā Mehravi, Iran University of medical science
- LBAP 033: In vitro characterization of AMB1 magnetosomes as biogenic functionalized contrast agents dedicated to molecular MRI
Françoise Geffroy, CEA
- LBAP 034: Xenon Biosensor Molecular MR Imaging with Reduced Surface Absorption Rate Using Cucurbit[6]uril based Biosensor
Francis Hane, Lakehead University
- LBAP 035: Towards the detection of PSMA enzyme activity using catalyCEST MRI
Luis Arias, University of Arizona
- LBAP 036: Hybrid Graphene/Au Activatable Theranostic Agent for Multimodalities Imaging Guided Enhanced Photothermal Therapy
Guohao Wang, Center for Molecular Imaging and Translational Medicine
- LBAP 037: Cerenkov Activated Contrast Probes for Imaging
Sudeep Das, Memorial Sloan Kettering Cancer Center
- LBAP 038: Graphene oxide-BaGdF5 nanocomposites for multi-modal imaging and photothermal therapy
Huixia Wu, Shanghai Normal University
- LBAP 039: Mesoporous silica based tumor molecular imaging probes and theranostic agents
Zhaogang Teng, Nanjing University
- LBAP 040: Multimodal Fluorescence and Radiolabeling Strategy for the Investigation of Cellulose Nanocrystal Biodistribution in Mice Bearing Orthotopic 4T1 Mammary Fat Pad Xenografts
Mirkka Sarparanta, Memorial Sloan Kettering Cancer Center
- LBAP 041: Situation and Progress of Tumor Angiogenesis Targeted Imaging and Therapy via Positron Radionuclide Tracing Techniques
Rong Fu Wang, Peking University First Hospital
- LBAP 042: Technetium labeled chenodeoxycholic acid analogue: Synthesis, in vitro and in vivo evaluation to study (altered) hepatic transporter function..
Sara Neyt, Gent University
- LBAP 043: Preclinical Evaluation of Radiolabeled MUC16 Antibodies for PET Imaging of Epithelial Ovarian Carcinoma
Brandon Nemieboka, Memorial Sloan Kettering Cancer Center

- LBAP 044: Methodology Development for the Quantification of 4-[18F]-(2S,4R)-Fluoroglutamine
Michael Nickels, Vanderbilt Medical Center, Vanderbilt Medical Center
- LBAP 045: Radiosynthesis of [11C]tideglusib via [11C]CO₂ fixation
xia shao, University of Michigan
- LBAP 046: Radiosynthesis and evaluation of 4-nitrobenzyl N-2-[18F]fluoroethyl carbamate for imaging tumor hypoxia with positron emission tomography
Zhengxing Zhang, BC Cancer Agency
- LBAP 047: Synthesis and characterization of 18F-interleukin-8 using a cell-free translation system and 18F-fluoro-L-proline
Kazuhiro Yanai, Tohoku University School of Medicine, Tohoku University
- LBAP 048: Pretargeting CA19.9 in BxPC3 tumor xenografts for 18F-based PET Imaging using bioorthogonal Diels-Alder click chemistry
Jan-Philip Meyer, Memorial Sloan Kettering Cancer Center
- LBAP 049: p-SCN-Bn-HOPO: A novel bifunctional chelator for 89Zr immunoPET
Melissa Deri, Hunter College and the Graduate Center of the City University of New York, Memorial Sloan Kettering Cancer Center
- LBAP 050: Radiosynthesis and Preclinical PET Evaluation of 89Zr-Nivolumab (BMS-936558) in Healthy Non-Human Primates
Patrick Chow, Bristol-Myers Squibb Company
- LBAP 051: Investigation of novel Oncrasin-1 analogues for use in imaging KRAS mutant cancer
Alexander McDonald, The University of Melbourne
- LBAP 052: One-step synthesis and evaluation of 18F-MPG: a novel PET tracer targeting active mutant EGFR in NSCLC
zunyu xiao, Molecular imaging center
- LBAP 053: Development of radiolabeled gene delivery nanoparticles as theranostic agents for melanoma
Istvan Hajdu, University of Saskatchewan
- LBAP 054: Synthesis and biodistribution of novel positively charged 99mTc-labeled fatty acid derivatives for myocardial imaging
Qianqian Xue, Beijing Normal University
- LBAP 055: Synthesis and biodistribution of novel positively charged 99mTc-labeled fatty acid derivative for myocardial imaging
Qianqian Xue, Beijing Normal University
- LBAP 056: The Synthesis and Biological Evaluation of 18F-labeled BFPMPD as a Focal Adhesion Kinase-Targeted Pyrimidine-type Tumor Specific Invasion Imaging Agent
Yu Fang, Beijing Normal University
- LBAP 057: Is kinetics analysis of O-(2-18F-fluoroethyl)-L-tyrosine (FET) uptake acquired during short imaging protocol of simultaneous PET MRI useful in differentiating glioma recurrence from radiation necrosis?
Amarnath Jena, Indraprastha Apollo Hospital
- LBAP 058: Preparation of a Novel 99mTc-labeled Pteric acid conjugate for Noninvasive Imaging of Folate Receptor Positive Tumor
Young-Don HONG, Korea Atomic Energy Research Institute
- LBAP 059: IRDye 700DX-small molecule Photodynamic Therapy Induces Apoptotic Signals
Joy Kovar, LI-COR Biosciences
- LBAP 060: A fluorescent agent cocktail for detecting both cholestasis and hepatocellular forms of acute drug-induced liver injury
Jeffrey Peterson, PerkinElmer, Inc
- LBAP 061: Imaging active amyloid plaques of Alzheimer's disease with near-infrared fluorescent probes capable of cascade signal amplification
Chongzhao Ran, MGH/Harvard Medical School
- LBAP 062: Conjugated Polymer Nanodots as Ultrastable Long-term Trackers to Understand Mesenchymal Stem Cell Therapy in Skin Regeneration
Guorui JIN, Institute of Materials Research and Engineering
- LBAP 063: In vivo dual-targeted imaging of angiogenesis progression with fluorescently labeled peptide-based probes in a murine model of hindlimb ischemia
Ju Hee Ryu, Korea institute of science & technology
- LBAP 064: Improving optical imaging in living subjects by an order of magnitude with a novel bioluminescent reporter protein
Michael Lin, Stanford University
- LBAP 065: Imaging of aldehyde dehydrogenases with oligothiophene based probes
Niren Murthy, U.C. Berkeley
- LBAP 066: Inhibitor-Based Fluorescent Probe Revealed DDR1 kinase involves in autophagy
Jing Liu, High Magnetic Field Laboratory, Chinese Academy of Sciences
- LBAP 067: Synthesis and characterization of novel fluorescent sigma-2 receptor ligands
Jiajun Ye, Beijing Normal University
- LBAP 068: Life-time bioimaging of caspase activity in the live cells based on red fluorescent proteins
Alexander Savitsky, A.N.Bach Institute of Biochemistry
- LBAP 069: Near Infrared In Vivo Imaging of Retinal Apoptosis in Rats using CAS-MAP P 780, a Tracer Detecting Active Caspase Enzymes.
Gary Johnson, The SEED Partners
- LBAP 070: Using longitudinal FDG PET to identify genetic risk factors for monitoring Alzheimer's disease progression
Yun Zhou, Johns Hopkins University School of Medicine
- LBAP 071: A PET/CT and fMRI randomized controlled study to identify brain network associated with acupuncture effects in reducing depression
Zhang-Jin Zhang, The University of Hong Kong
- LBAP 072: Quantitative analysis of relationship among biomarkers in Alzheimer's Disease Neuroimaging Initiative study
Xueqi Chen, Johns Hopkins Medical Institutions, Peking University First Hospital
- LBAP 073: DCE-MRI-based imaging biomarker for the earlier evaluation of response to neoadjuvant chemoradiation therapy in sarcoma
Wei Xia, Suzhou Institute of Biomedical Engineering and Technology, Chinese Academy of Sciences
- LBAP 074: Utilizing 18F-FLT to Monitor the Effect of Dexamethasone on NSCLC
Christopher McHugh, Wayne State University
- LBAP 075: Non-invasive Determination of PIK3CA-Mutations with 18FDG PET/CT in Estrogen Receptor-Positive / Human Epidermal Growth Factor Receptor 2-Negative Breast Cancer Patients Prior to Therapy: a feasibility study
Heinrich Magometschnigg, Medical University of Vienna
- LBAP 076: A comparative study of fused FDG PET/MRI and PET/CT for the detection of residual hepatocellular carcinoma after chemoembolization: preliminary report.
Lamiaa Zidan, faculty of medicine, cairo university
- LBAP 077: Prognostic clinical and imaging markers for sstr2-targeted radiolabeled therapy in neuroendocrine tumors: Long-term follow-up of a phase 2 clinical trial
Rebecca Dumont, University Hospital Basel
- LBAP 078: Optimal Injection Time of Indocyanine Green for Intraoperative Fluorescence Image-guided Pulmonary Nodules Detection
Hyun Koo Kim, Korea University Guro Hospital

Poster Session 2 (continued)

- LBAP 079: Analysis of False Positive Diagnosis by 18F-FDG PET/CT in Solid Pulmonary Nodules with Initial SUV_{max}>2.5
WENCHAN LI, BEIJING HOSPITAL
- LBAP 080: Expression of the MRI Reporter Gene MagA Overrides Iron Export Activity in P19 Cells
Donna Goldhawk, Lawson Health Research Institute, Western University, Western University
- LBAP 081: Translating *Streptococcus pyogenes* Bioluminescence to Physiological Conditions during Preclinical Studies
Peter Panizzi, Auburn University
- LBAP 082: Myeloperoxidase Activity Assessment in Human Brain Vascular Pathology using Fluorescent and micro-MR Imaging.
Alexei Bogdanov, UMASS Medical School
- LBAP 083: Cryofluorescence Tomography (CFT) is an Ex Vivo Tool to Study Anatomy, Physiology, and Drug or Tracer Distribution in Brain and Other Organs
Marc Seaman, inviCRO, LLC
- LBAP 084: Longitudinal consequences of hippocampal amyloid-beta fibrils injections on 5-HT_{1A} receptors: an in vitro autoradiography study
Mathieu Verdurand, University of Lyon, Lyon Neuroscience Research Center (CRNL), CNRS UMR5292, INSERM U1028, BioRaN Team
- LBAP 085: Assessment of faulty brain repair in animal models of acquired epilepsy: evaluation of a novel extracellular matrix radiotracer
Stephan Missault, UAntwerp
- LBAP 086: Synthesis and biological evaluation of a novel 18F-labeled sulfonamide for imaging carbonic anhydrase IX expression with PET
Joseph Lau, BC Cancer Agency
- LBAP 087: Monitoring of microenvironmental regulation of cancer metastasis and prognosis
Yu Kyung Tak, Korea Basic Science Institute
- LBAP 088: Cellular imaging analysis for protein-protein interactions in living cells and its application
Eun Hee Han, Korea Basic Science Institute
- LBAP 089: Functional analysis of protein disulfide isomerase P5 in cancer cells by simultaneous observation method of both bioluminescence and fluorescence imaging at single cell level
Tomohisa Horibe, Kyoto University
- LBAP 090: Discovery of novel glioma-specific peptides for molecular imaging of brain tumor cells
Choi-Fong Cho, Harvard Medical School, Brigham and Women's Hospital, Massachusetts Institute of Technology
- LBAP 091: Experimental study on the molecular imaging of CAIX in hypoxic tumor cells with 3T MRI
Juan Wang, shandong cancer hospital and institute
- LBAP 092: 89Zr-CRO11 Antibody for PET Imaging of the GPNMB Receptor in Triple Negative Breast Cancer
Bernadette Marquez, Washington University in St. Louis
- LBAP 094: Pancreatic tumour cells are the major contributor to the signal on FDG PET: implications for monitoring cancer immunotherapy.
David Lewis, University of Cambridge
- LBAP 095: Tumor lactate dehydrogenase A (LDH-A) knockdown enhances T cell tumor infiltration and prolongs survival in an immune competent host
Inna Serganova, Memorial Sloan Kettering Cancer Center (MSKCC)
- LBAP 096: Analysis of gene expression profiling of primary cell from DEN-induced liver cancer lesion detected by 18F-FDG PET
Kwang Il Kim, Korea Institute of Radiological and Medical Sciences
- LBAP 097: In vivo PET imaging with 18F-Fallypride of pituitary dopamine receptor-D2 in Fisher 344 rat prolactinoma models
Qian Liu, Beijing Neurosurgical Institute
- LBAP 098: PET-based assessment of tumor IGF1- and insulin receptor expression and anti-receptor treatment response
Mikkel Vendelbo, Aarhus University Hospital
- LBAP 099: Magnetic resonance metabolic profiling of estrogen receptor positive breast cancer reveals potential prognostic biomarkers
Ji Soo Choi, Samsung Medical Center
- LBAP 100: GLP-1R imaging of MEN1 pancreas with [(68)Ga]Exendin-4/PET
Azita Monazzam, Uppsala University, Medical science
- LBAP 101: Characterization of radiation induced nuclear translocation of EGF/EGFR complex
Naga Vara Kishore Pillarsetty, MSKCC
- LBAP 102: Abrogation of Leptin signaling can reduce Transactivation of VEGFR-2 Notch Crosstalk and angiogenic features in Endothelial Cells
Viola Lanier, Morehouse School of Medicine
- LBAP 103: Neuroimaging of Ebola Virus pathogenesis in a Non-Human Primate
Margaret Lentz, NIH
- LBAP 104: Preclinical evaluation of a novel 68Ga-labeled DOTA-depsipeptide derivative as a radioligand for PET infection imaging
Thomas Ebenhan, University of Pretoria & Steve Biko Academic Hospital, University of KwaZulu-Natal
- LBAP 105: Visualizing immune response against Hepatitis B virus vaccination with different adjuvants in vivo mouse model
Taemoon Chung, nuclear medicine
- LBAP 106: Tracking of monocytes derived from HoxB8-immortalized progenitors sheds light on immune cell infiltration after experimental murine myocardial infarction
Lisa Honold, University of Muenster
- LBAP 107: Imaging of infiltrating leukocytes in ischemic-reperfusion brain injury by formyl peptide receptor specific cFLFLFK-HYNIC-99mTc
Dongfeng Pan, University of Virginia
- LBAP 108: MRI monitoring of intrapancreatic ductal nanodrug delivery to insulin producing cells
Ping Wang, Massachusetts General Hospital
- LBAP 109: Evaluation of Homogeneous Sn-117m Colloid Radiosynovectomy in Normal Dogs Using Scintigraphy, PET-MRI and Other Modalities
Cynthia Doerr, R-NAV
- LBAP 110: Selective Nanotube Targeting to Monocytes for Multimodal Cancer Imaging
Bryan Smith, Stanford University
- LBAP 111: Alendronate a new class of theragnostic compounds with non targeted bystander effect enhancing properties.
Rao Papineni, University of Kansas Medical Center, Precision X-Ray Inc, Pact & Health
- LBAP 112: In vivo imaging of pancreatic islets transplanted into the mouse eye to study diabetes progression
Pim van Krieken, Karolinska Institutet
- LBAP 113: Personalized cellular therapy for Parkinson's Disease: Tracking the fate of Parkinson's patients brain cells in NOD/SCID IL2-gamma knockout mice
Paula Foster, University of Western Ontario
- LBAP 114: Evaluation of [18F]BR420 and [18F]BR351 as potential PET ligands for in vivo imaging of MMP-9 activity in an animal model of traumatic brain injury
Stephan Missault, UAntwerp

- LBAP 115: Functional connectivity in ischemic stroke rat model at hyperacute stage using resting state functional MRI
Yonghee Han, SMC
- LBAP 116: Spatiotemporal Microstructural White Matter Changes in Diffusion Tensor Imaging after Transient Focal Ischemic Stroke in Rats
Won Beom Jung, Samsung Medical Center
- LBAP 117: EVALUATION OF SV2Alox/Cre TRANSGENIC MOUSE USING [18F]UCB-H IN VITRO AUTORADIOGRAPHY
Guillaume Becker, Centre de recherches du Cyclotron
- LBAP 118: Pharmacokinetic and Pharmacodynamic Imaging of Intrathecally Administered Antisense Oligonucleotides
Ken Zasadny, inviCRO, LLC
- LBAP 119: Nicotinamide administration improves remyelination after stroke
Congxiao Wang, southeast University
- LBAP 120: Neurovascular Analysis of the Aging Murine Brain using 3D in vivo Gadolinium Micelle-Enhanced Magnetic Resonance Angiography
Lindsay Hill, New York University School of Medicine, SUNY Downstate Medical Center
- LBAP 121: mGluR5 but not mGluR4 is regionally elevated in fragile X syndrome: Longitudinal PET studies in FXS mouse model
Anna-Liisa Brownell, Massachusetts General Hospital
- LBAP 122: In vivo evaluation of cerebral blood flow metabolism, apoptosis and stem cell trafficking following traumatic brain injury using multi-spectral optoacoustic tomography imaging in rats.
Eugene Park, Li Ka Shing Knowledge Institute at St. Michael's Hospital
- LBAP 123: Metabolism of 1-13C Pyruvate to Lactate in the Mouse Brain Using an Absorptive Mode EPSI Sequence on a 1 Tesla Permanent Magnet
Vesselin Miloushev, Memorial Sloan Kettering Cancer Center
- LBAP 124: In vivo PET evaluation of an AAV- α SYN rat model of Parkinson's diseases
Laura Kuebler, Eberhard Karls University Tuebingen
- LBAP 125: Translational imaging biomarkers in a BAC α -synuclein Tg rat model of Parkinson's: 123I-ioflupane SPECT/CT imaging of the dopamine transporter and 18F-FDG PET/CT imaging of metabolism
Patrick McConville, Molecular Imaging, Inc.
- LBAP 126: In vivo quantification of the ultrasound mediated delivery of Gd3+-labeled nanoparticles into human colon cancer xenografts using 3D T1 mapping with 3-TI MPRAGE MRI
Steven Machtaler, Stanford
- LBAP 127: Preclinical optimization of anti-CA19.9 immunoPET in the context of shed antigen
Jacob Houghton, Memorial Sloan Kettering Cancer Center
- LBAP 128: Targeting orthotopic 4T1 breast cancer allografts in BALB/c mice by NOTA-derivatized pH (Low) Insertion Peptide (pHLIP) complexes with 64Cu and 18F
Kimberly Edwards, Memorial Sloan Kettering Cancer Center
- LBAP 129: Genetically controlled and photobleaching-resistant biosynthetic far-red pigment for bacterial tumor imaging via optoacoustics.
Gil Westmeyer, Technical University Munich, Helmholtz Zentrum Muenchen
- LBAP 130: Optimal Injection Time of Indocyanine Green for Intraoperative Fluorescence Image-guided Thoracoscopic Resection of Lung Cancer in Rabbit Model
Yuhua Quan, Korea University Guro Hospital, Korea University College of Medicine
- LBAP 131: Study for single and fractionated radioimmunotherapy (RIT) of 90Y-labeled anti- α 6 β 4 integrin antibody in pancreatic cancer model
Winn Aung, National Institute of Radiological Sciences
- LBAP 132: [18F]FDG-PET imaging as a surrogate biomarker to monitor tumor cell metabolism change in response to the treatment of PI3K/mTOR inhibitor PF-05212384
Cathy Zhang, Pfizer Inc
- LBAP 133: Dual Modality ImmunoPET/Fluorescence Imaging of Prostate Cancer
Wen-Ting Tsai, University of California Los Angeles
- LBAP 134: Radiolabeling and nano-SPECT/CT imaging of 188Re-cetuximab in NCI-H292 tumor bearing mice
Chih-Hsien Chang, Institute of Nuclear Energy Research
- LBAP 135: Reappearance of hyperpolarized 13C-pyruvate/lactate in MRS in mice models of breast cancer: indicator of tumor heterogeneity or tumor metabolic profile?
Georgios Batsios, ETH Zurich
- LBAP 136: Image-guided surgery of intraperitoneal tumor lesions using NIR-labeled nanobodies
Sophie Hernot, Vrije Universiteit Brussel
- LBAP 137: Non-invasive Optical Imaging of Targeted Therapy-induced Tumour Cell Death
Bangwen Xie, University of Cambridge
- LBAP 138: Enhanced Delivery of Doxorubicin-loaded Hollow Gold Nanospheres (Dox@PEG-HAuNS) for Improved Dual Photothermal Ablation-Chemotherapy of Liver Tumors Using μ PET/CT Imaging Guidance
Junjie Li, The University of Texas MD Anderson Cancer Center
- LBAP 139: Imaging of Carbonic Anhydrase IX with Radio-Labeled Dual-motif inhibitors
Il Minn, Johns Hopkins University
- LBAP 140: Enhanced delivery of near-infrared fluorescence dye-labeled liposomes to lung tumor through targeting interleukin-4 receptor on both tumor cells and tumor endothelial cells
Byung-Heon Lee, Kyungpook National University, Kyungpook National University
- LBAP 141: Imaging of Tumor Vascularity and Response to Anti-Angiogenic Therapy in Real-Time
Bakhos Tannous, Massachusetts General Hospital
- LBAP 142: PET imaging of hyaluronan-masked HER2+ breast cancer using 89Zr-trastuzumab
Nerissa Villegas, Karmanos Cancer Institute
- LBAP 143: In vitro and in vivo evaluation of a novel 68Ga-labeled BVD15 analogue for neuropeptide Y1 receptor imaging with positron emission tomography
Chengcheng Zhang, BC Cancer Agency
- LBAP 144: Preclinical 89Zr-immunoPET of Epithelial Ovarian Cancer and Lymph Node Metastasis
Sai Kiran Sharma, MSKCC
- LBAP 145: The SPECT/CT Imaging of 123I-Panitumumab in a LS-174T Human Colon Tumor-Bearing Mice Model.
Ya-Jen Chang, Institute of Nuclear Energy Research
- LBAP 146: Local tumour irradiation enhanced tumor targeting of immunocytokine NHS-IL12 in vivo
Julia Schmitt, Eberhard Karls University
- LBAP 147: Prediction of Treatment Response in Colon Cancer Xenografts Using Three-Dimensional Ultrasound Molecular Imaging
Jianhua Zhou, Stanford University

Poster Session 2 (continued)

- LBAP 148: Multimodal imaging of PTK7 receptor: Aptamers as probes
Victoria Calzada, Universidad de la República
- LBAP 149: Multiplexed photoacoustic theranostic imaging of the tumor microenvironment for precision medicine
Jiefu Jin, Johns Hopkins University School of Medicine
- LBAP 150: Liposomal ^{64}Cu -PET Imaging of Anti-VEGF Drug Effects on Liposomal Delivery to Breast Cancer Xenografts in Mice.
Stephanie Blocker, Wayne State University
- LBAP 151: In vivo bioluminescence imaging as indicator for active disease in cancer-induced bone pain
Sarah Falk, University of Copenhagen
- LBAP 152: Effects of specific activity on the performance of ^{68}Ga -DKFZ-PSMA11 to delineate PSMA expressing tumors
Naga Vara Kishore Pillarsetty, Memorial Sloan Kettering Cancer Center
- LBAP 153: Metabolic PET stratification of therapy targeting oncogenic signaling in glioblastoma
Jason Lee, Crump Institute for Molecular Imaging, David Geffen School of Medicine at UCLA
- LBAP 154: In vivo biodistribution of a gallium-68 labeled substance-P-derivative in healthy dogs for prospective PET imaging of pancreatic cancer
Thomas Ebenhan, University of Pretoria & Steve Biko Academic Hospital, University of KwaZulu-Natal
- LBAP 155: 18F-FMISO kinetic modeling for the characterization of tumor perfusion and hypoxia in response to cediranib treatment
Sean Carlin, Memorial Sloan Kettering Cancer Center
- LBAP 156: The PET/MRI strategy: Combination of functional and anatomical imaging allows fast and precise identification of necrotic areas and vital tumor tissue of hepatocellular carcinoma (HCC)
Eva Koziol, Berlin Experimental Radionuclide Imaging Center (BERIC), Präklinische Bildgebung am DKFZ-Partnerstandort Charité Berlin
- LBAP 157: Noninvasive detection of oncolytic immunotherapy activity using a radiolabeled penciclovir analog
Charles Glaus, Amgen, Inc.
- LBAP 158: Photoacoustic Imaging of Peptide vs. Antibody Tumor Penetration by Time Resolved Functional Perfusion Analysis
Patrick McConville, Molecular Imaging, Inc.
- LBAP 159: Performance Results of a Motorized Variable Angle Slant-hole Collimator for Molecular Breast Imaging
Andrew Weisenberger, Thomas Jefferson National Accelerator Facility
- LBAP 160: Application of parametric imaging using 18F-FDG PET/CT dynamic multi-bed scanning in differential diagnosis of pulmonary lesions
Rong Fu Wang, Peking University First Hospital
- LBAP 161: Software platform for Spectral CT forward projection simulation
Shouping Zhu, Xidian University
- LBAP 162: Development of a fully automated dose applicator for small laboratory animals
Sebastian Eigner, SKS Biotech Ltd.
- LBAP 163: Imaging primary prostate cancer in prostate tissue culture sections using FDG radioluminescence microscopy
Silvan Tuerkcan, Stanford University
- LBAP 164: A comparison of SAFARI MRI, QUESPOWR MRI and acidoCEST MRI for quantification of tissue pH
Leila Lindeman, University of Arizona
- LBAP 165: T1 Relaxometry Applied to Ebola-Infected Non-human Primates
Jeffrey Solomon, NIH
- LBAP 166: Quantitative Susceptibility Functional MRI (QSfMRI) of Rat Brain during Electrical Stimulation of Forepaw
Hsin-Chih Lo, National Taiwan University, National Taiwan University
- LBAP 167: Hyperspectral Microscopy of Near-Infrared Fluorescence Enables 12-Chirality Carbon Nanotube Imaging
Daniel Heller, Memorial Sloan Kettering Cancer Center
- LBAP 168: 3D in vivo Quantification and Localization of a Urinary Tract Infection
Neal Paragas, University of Washington
- LBAP 169: Development of a Pulse Measurement System in The Radial Artery Using Optical Coherence Tomography
Jaeyul Lee, Kyungpook National University
- LBAP 170: Elimination routes assessment of fluorescent probes and drug delivery systems using $\mu\text{CT-FMT}$
Wa'el Al Rawashdeh, RWTH Aachen University
- LBAP 171: Morphological analysis of growth inhibiting chemicals primed Capsicum annum seeds using spectral domain optical coherence tomography
Mansik Jeon, Kyungpook National University
- LBAP 172: Wide-field diagonal 3D optical coherence tomography probe for in vivo scanning of the human tympanic membrane using a wide-field diagonal 3D optical coherence tomography probe
Kibeom Park, Kyungpook National University
- LBAP 173: Single cancer cell isolation and visualization in microfluidic chip for cytoscreening of cancer stem cells
Daisuke Onoshima, Nagoya University
- LBAP 174: Quantification of Radioactivity in Microtiter Plates with PET Imaging
Nicholas Vandehey, Lawrence Berkeley National Laboratory
- LBAP 175: Impact of local definition of input function on quantitative PET imaging
M'hamed Bentourkia, Université de Sherbrooke
- LBAP 176: A Modified Multiresolution Transform for Small-Animal PET Image Denoising
Jie Zhao, Xuzhou Medical University
- LBAP 177: The Noise-Weighted Filtered Backprojection Algorithm Performs as Well as the Iterative ML-EM Algorithm for Nuclear Medicine
Larry Zeng, Weber State University, University of Utah
- LBAP 178: Synthesis of fluorine-18 agents for PET imaging of hypoxic tissue in tumours
Lee Wenn Chong, The University of Melbourne
- LBAP 179: Approach to high brightness of the near-infrared light-emitting luciferin
Masahiro Kiyama, The University of Electro-Communications, Super Collaborative Graduate School
- LBAP 180: PEG-LPrA2: A Novel Adjuvant for Breast Cancer Treatment
Courtney Dill, Morehouse School of Medicine
- LBAP 181: Novel adjuvant therapy targeting chemotherapeutic resistance in Triple Negative Breast Cancer
Tia Harmon, Morehouse School of Medicine

Preclinical in vivo Studies

Cardiology

- P288: Comparison of the PET imaging agents for atherosclerotic plaque detection
Mikako Ogawa, Hamamatsu University School of Medicine, Hokkaido University
- P289: Intravascular molecular-structural NIRF-OCT assessment of stent fibrin deposition and tissue coverage in coronary stents in vivo
Jason McCarthy, Massachusetts General Hospital
- P290: In vivo Kinetics PET/CT Imaging of Angiogenesis by 68Ga-NOTA-PRGD2 Probe in Porcine Heart post Myocardial Infarction
Bo Tao, Xijing Hospital
- P291: Activated Platelet Targeted Theranostic Microbubbles for Concurrent Diagnosis and Treatment of Thrombosis via ultrasound
Xiaowei Wang, Baker IDI Heart and Diabetes Institute
- P292: Atherosclerotic plaque permeability: in vivo quantification in the aortic root of ApoE^{-/-} mice using DCE-MRI
Claudia Calcagno, Icahn School of Medicine at Mount Sinai
- P293: FMT imaging in the development of targeted liposomes for cell-specific delivery of small molecule drugs to the infarct border zone after myocardial infarction
Alexander Klivanov, University of Virginia, University of Virginia
- P294: angioCEST: using TmDOTMA encapsulated liposomes and chemical exchange saturation transfer for enhanced MRI angiography
Todd Soesbe, UT Southwestern Medical Center, UT Southwestern Medical Center
- P295: Rapid Screening of the Biodistribution of Adeno-associated Vectors Using NIS Reporter Gene Imaging
Kah-Whye Peng, Mayo Clinic
- P296: TGFβRI Inhibition Produces Dual Cardioprotective Actions through Increasing Survivin and Inhibiting Wnt Expressions in Cardiac Progenitors
Wen-Pin Chen, Institute of Pharmacology, College of Medicine, National Taiwan University, Taiwan.
- P297: Using high resolution ultrasound to assess direct parasympathetic control of ventricular contractility: A comparison with pressure-clamped mode
Asif Machhada, UCL Centre for Cardiovascular and Metabolic Neuroscience, UCL Centre for Advanced Biomedical Imaging
- P298: PET Imaging Evaluation for Induced Pluripotent Stem Cell Transplantation in a Rat Model of Myocardial Infarction
shuang wu, The Second Affiliated Hospital of Zhejiang University School of Medicine
- P299: PEGylated Nanoliposomes to Treat Myocardial Ischemia
Hyosook Hwang, Chonbuk National University Hospital
- P300: The effect of moderate endurance exercise during doxorubicin-treatment in tumor-bearing mice
Chia-Ying Lien, National Taiwan University
- P301: Evaluation of polymeric micelle MR contrast agent for mice MR imaging: comparison with gadofluorine M
Shigeru Kiryu, Institute of Medical Science, The University of Tokyo

Infectious Disease

- P302: Longitudinal bioluminescence imaging to increase the in vitro and in vivo screening efficiency of antifungal activity against *Candida albicans* biofilms
Greetje Vande Velde, KU Leuven

- P303: Differentially and non-invasively characterizing brain lesions by use of multimodal MRI, MRS and fibered confocal fluorescence microscopy in a mouse models of cerebral cryptococcosis
Greetje Vande Velde, KU Leuven
- P304: Set up and MR-PET imaging of a *S. aureus* vascular graft infection model in mice
Hélène Van de Vyver, University of Münster (Germany)
- P305: Introduction of an antibody based PET tracer for the imaging of Alveolar Echinococcosis compared to various standard clinical PET tracers
Anna-Maria Rolle, Eberhard Karls University Tuebingen
- P306: Pathogen specific antibody-based molecular imaging of Invasive Aspergillosis with the newly developed PET tracer [64Cu]DOTA-JF5 and its humanized variant [64Cu]NODAGA-hJF5
Anna-Maria Rolle, Eberhard Karls University Tuebingen
- P307: Imaging Bacterial Infection Induced Inflammation in a Mouse Model using 68Ga-transferrin
Delphine Chen, Washington University
- P308: PET imaging of 18F labeled PZA in *M. tuberculosis*-infected animals to quantify drug concentrations in infected tissues
Zhuo Zhang, Stony Brook University, Stony Brook University
- P309: Differentiating bacterial infection from inflammation in mouse lung using 2-[18F]-fluorodeoxyisobutyl (18F-FDS)
Junling Li, University of Louisville
- P310: NanoAu-Cocktail-pulsed Dendritic Cells Preferentially Homing to Liver-Draining Lymph Nodes and Inducing Anti-Viral CD8⁺ T Cell Responses monitored by Bioluminescence imaging
linsheng zhan, Beijing Institute of Transfusion Medicine
- P311: Intravital two-photon imaging of pulmonary invasive aspergillosis using fluorescent versions of the monoclonal antibody JF5 and its humanized variant
Mike Hasenberg, University of Duisburg/Essen
- P312: Visualizing pathogenesis of *Francisella tularensis* (*F. tularensis*)
Kee-Jong Hong, Institut Pasteur Korea, Korea National Institute of Health
- P313: Therapeutic Effect by High Intensity Focused Ultrasonic (HIFU)-Mediated Liposome Encapsulated Vascular Endothelial Growth Factor (VEGF)-Peptide in Hindlimb Ischemic Rodent Model
MinJoo Kim, Chonbuk National University Medical School and Hospital

Inflammation/Immunology

- P314: ImmunoPET imaging of murine T helper lymphocytes with an anti-CD4 cys-diabody
Amanda Freise, UCLA
- P315: In vivo magnetic resonance imaging and microscopy of vessel permeability and endovascular inflammation using targeted microparticles of iron oxide
Lisa Whittingstall, Université de Sherbrooke
- P316: In vivo PET imaging of inflammation in rheumatoid arthritis (RA) using the platelet-collagen binding tracer [64Cu]NOTA-GPVI
Kerstin Fuchs, Werner Siemens Imaging Center
- P317: 18F-FEDAC, a radiolabeled ligand targeting Translocator protein, as a PET tracer to image Rheumatoid Arthritis in a mouse model
Seock-jin Chung, Seoul National University
- P318: Coupling of non-invasive bioluminescence imaging (BLI) and giant magnetoresistor-Biosensor (GMRB) for longitudinal monitoring of antibodies-mediated spontaneous lymphoma cells regression in living subjects.
Carmel Chan, Stanford University, Molecular Imaging Program in Stanford (MIPS)

Poster Session 3 (continued)

- P319: TbiLuc mouse: in vivo imaging of T cell localization and activation using multicolor bioluminescence.
Laura Mezzanotte, Leiden University Medical Center
- P320: PET Imaging of Tumor-Targeting Salmonella typhimurium using [18F] Fluoro-deoxy-sorbitol in small animal models
Dong-Yeon Kim, Chonnam National University Hwasun Hospital
- P321: Lung-imaging in a rodent model of COPD: A comparison of CT and MRI at 15.2 Tesla
Wolfram Stiller, University Hospital Heidelberg
- P322: In vivo Imaging of Lung Apoptosis in an Emphysema Model
Yared Tekabe, Columbia University
- P323: Optimization of non-invasive [18F]fluoromethyl-PBR28 PET study for quantification of neuroinflammation using alternative reference compartments in rat Parkinson's disease model
Hyun Soo Park, Graduate School of Convergence Science and Technology, Seoul National University
- P324: PET Imaging Reveals a Greater Recruitment of Zirconium-89-oxine-labeled Monocytes to Cancer and Inflammation Compared to Macrophages.
Sho Koyasu, National Cancer Institute, NIH
- P325: In vivo quantification of ischemic memory following acute kidney injury using molecular ultrasound imaging
Kenneth Hoyt, University of Alabama at Birmingham
- P326: SWIFT MR Imaging of Grafted Mesenchymal Stem Cells in Bone Tissue
Sergio Wong, University of California, San Francisco
- P327: Assessing implant wear- induced inflammation using PET [11C]PK11195 imaging in a rat model
Weiping Ren, Wayne State University, Providence Hospital
- P328: DCE-MRI Reveals The Role of Cellular Senescence in Placental Processing of Labeled-Albumin
Marina Lysenko, Weizmann Institute of Science
- P329: Quantification of the endolymphatic hydrops in Ménière's disease using contrast enhanced small animal MRI
Julia Mannheim, Werner Siemens Imaging Center
- P330: Fluorine vs iron oxide labeling of mesenchymal stem cells (MSCs) for image-guided therapy of acid burns
GHULAM MUHAMMAD, Johns Hopkins University, University of the Punjab
- P331: In Vivo Optical Imaging of Immune Response
Zhihong Zhang, Britton Chance Center for Biomedical Photonics-Wuhan National Laboratory for Optoelectronics
- P332: Molecular imaging of atherosclerosis using the novel magnetic resonance contrast agent Gadofluorine P and T1 mapping techniques
Almut Glinzer, Klinikum Rechts der Isar, Technische Universität München
- P333: Evaluation of migration ability of bone marrow-derived dendritic cells induced with different cytokine condition using in vivo fluorescent imaging
Su-Bi Ahn, School of Medicine, Kyungpook National University
- P334: Multiplexed transfer of immune genes into an allogeneic transplant model and in vivo screening by bioluminescence imaging demonstrates short-term protection from acute rejection
Michael Bachmann, Stanford University
- P335: Imaging Arthritis Disease Activity By Targeting S100A9 and Gelatinases Expression In A Mouse Model Of Inflammatory Arthritis
Mahesh Kondapuram, University of Münster
- P336: A 3D mouse atlas from in vivo micro-CT and its applications for preclinical evaluation
Liqin Xie, Regeneron
- P337: Feasibility of Dynamic Quantification of Knee Changes using 18F-FDG PET in an In Vivo Dog Model of Osteoarthritis
Maria Menendez, The Ohio State University, College of Veterinary Medicine. The Ohio State University
- P338: Effectiveness of Losartan-loaded Hyaluronic Acid (HA) Micelles for the Reduction of Advanced Hepatic Fibrosis in C3H/HeN Mice Model
REJU THOMAS, Chonnam National University Medical School
- P339: Therapeutic Efficacy Evaluation and Underlying Mechanism of Quetiapine in Collagen Induced Arthritis Animal Model
Tzu-Yao Huang, National Yang-Ming University
- P340: Folate receptor beta is a target for macrophage imaging in acute lung inflammation
Timothy Blackwell, Vanderbilt University
- P341: Identification of the Role of Autophagy in Salmonellae-mediated Cancer Imaging and Therapy
Mai Duong, Chonnam National University
- P342: Immunosuppressive nanotherapeutic micelles downregulate endothelial cell inflammation and immunogenicity in models of transplantation
Ann-Marie Broome, Medical University of South Carolina, Medical University of South Carolina
- P343: Use of organic iron oxide nanoparticles in magnetically controlled embolization applications
Dustin Osborne, University of Tennessee
- P344: Image-guided Drug Delivery to Macrophages for Targeting Inflammation
Carolyn Anderson, University of Pittsburgh
- P345: Imaging the impact of eosinophil cationic protein in breast cancer progression
Mei-Ling Hsieh, China Medical University
- P346: Imaging of tumor targeting by cytotoxic cells in mouse models with positron emission tomography
Michael Weist, City of Hope

Metabolic Disease

- P347: Detection of thyroid function by in vivo I-131 Cerenkov luminescence imaging
Chien-Chih Ke, National Yang-Ming University
- P348: Impaired kidney development in mice with a mutation in the planar cell polarity protein Celsr1
Hortensja Brzoska, UCL Institute of Child Health

Neurology

- P350: Spatially-precise brain-specific genetic reporter expression enabled by magnetic resonance-guided focused ultrasound and nonviral nanoparticle carriers
Raag Airan, Johns Hopkins Medical Institutions
- P351: Targeted delivery of GCPII/PSMA molecular imaging probes to the brain
Raag Airan, Johns Hopkins Medical Institutions
- P352: CEST and FLEX MRI for the detection of CNS graft rejection
Sujith Sajja, Johns Hopkins School of Medicine, Institute for Cell Engineering, Johns Hopkins University
- P353: PET/MRI Image-guided Therapy of Peripheral Neuropathic Pain using a Sigma-1 Receptor Antagonist
Deepak Behera, Stanford University School of Medicine

- P354: Age-related changes in CSF dynamics assessed with PET/MR imaging of simultaneous intra-cisternal Gd-DTPA and ⁸⁹Zr-DTPA infusion in young and old beagle dogs
Tyler Wellman, inviCRO LLC
- P355: In vivo quantification of tissue engineered scaffold degradation using computed tomography
Erik Shapiro, Michigan State University
- P356: Machine learning quantification of stem cell transplant into rodent brain using MRI-based single cell detection
Erik Shapiro, Michigan State University
- P357: Simultaneous PET/MR imaging of sustained whisker stimulation in rats applying [18F]FDG-PET and BOLD-fMRI using a novel, single scanning session, protocol
Mario Amend, University of Tuebingen
- P358: Co-transplantation of Mesenchymal Stem Cells Improves Neural Stem Cell Survival in a Mouse Model of Amyotrophic Lateral Sclerosis.
Amit Srivastava, Johns Hopkins University, Cellular Imaging Section and Vascular Biology Program, Institute for Cell Engineering
- P359: Near Infrared Imaging of Damaged and Dystrophic Muscle
Glenn Walter, University of Florida
- P360: Role of p38 MAPK on MMP Activity in Ischemic Stroke as Measured by a Novel Fast MMP Activatable Nanoprobe
Di Chang, Zhongda Hospital, Medical School of Southeast University
- P361: PET Imaging of copper delivery to brain by intravenous ⁶⁴Cu Acetate and ⁶⁴Cu-GTSM
Erica Andreozzi, Kings College London
- P362: Implications for Understanding the Cellular Response for Pulsed Focused Ultrasound Associated with Blood-Brain Barrier Opening
Zsöfia Kovacs, National Institutes of Health
- P363: Image-guided Drug Delivery across the Blood-Brain Barrier using Theranostic Microbubbles
Twan Lammers, RWTH Aachen University
- P364: Non-invasive fast calcium neuroimaging of zebrafish behavior with complementary light-field and selective plane illumination microscopy
Gil Westmeyer, Technical University Munich, Helmholtz Center Munich
- P365: Visualizing in vivo retinal pigment epithelium cell death using a caspase-targeted fluorescent probe
Kabhilan Mohan, Univ of Kentucky
- P366: Uptake and retention of Mn and ⁵²Mn in the rat brain for PET/MRI in neurological applications
Christina Lewis, University of Wisconsin-Madison
- P367: Multimodal imaging of 6-hydroxydopamine induced neurodegeneration and its impact on neuroinflammation and neurogenesis
Inga Fricke, University of Muenster, University of Muenster
- P368: Multi-modal imaging assessment of glioma growth, glioma associated microglial activation, and active matrix metalloproteinases in vivo.
Bastian Zinnhardt, University of Münster
- P369: In vivo Monitoring of Sevoflurane-induced Neuronal Injury in Neonatal Nonhuman Primates using Small-animal Positron Emission Tomography
Xuan Zhang, NCTR
- P370: Long term tracking of human neural progenitor cells derived from pluripotent stem cells using mitochondrial ferritin as an MRI reporter gene
Kazim Narsinh, UC San Diego School of Medicine, Sanford Consortium for Regenerative Medicine
- P371: Mass Spectrometry Imaging as a novel tool for monitoring the effects of 11 β -hydroxysteroid dehydrogenase-1 deficiency and inhibition on region-specific glucocorticoid regeneration in mouse brain using stable isotope tracers
Diego Cobice, University of Edinburgh
- P372: Simultaneous in vivo MR imaging of neural stem cells and endothelial cells in a rat model of stroke.
Michel Modo, University of Pittsburgh
- P373: Evaluation of metabolic change of photochemically-induced brain ischemia by FDG/PET
Chien-Chih Ke, National Yang-Ming University
- P374: Improving Cerebral Blood Flow through Liposomal Delivery of Angiogenic Peptides: Potential of 18F-FDG PET Imaging in Ischemic Stroke Treatment
Hyosook Hwang, Chonbuk National University Medical School and Hospital
- P375: Validation of neuronavigation as a tool to improve coil positioning in rodent rTMS studies
Nick Van Laeken, Ghent University
- P376: Functional MRI of the visual system of Chamaeleo Chameleon: binocular and monocular stimulation
Inbal Biton, Weizmann Institute of Science
- P377: Molecular PET imaging of serotonin 5HT1A receptor and brain metabolism after electrical stimulation of Medial Raphe Nucleus (MRN) in rats.
Miguel Pozo, Instituto Pluridisciplinar UCM, Instituto Tecnológico PET
- P378: SPECT Imaging in a mouse model of muscular dystrophy: MDX mice have higher uptake of ^{99m}Tc-MDP in muscle than healthy age-matched controls
Jack Hoppin, inviCRO, LLC
- P379: In Vivo Quantitative Analysis with PET of the Dopamine Transporter in the KI-G2019S and KI-R1628P LRRK2 mice with [18F]FE-PE2I
Zhimin WANG, Nanyang Technological University
- P380: A translational awake rodent pharmacological MRI imaging model: a report investigating central effects of MK-801
*Sakthivel Sekar, Singapore Bioimaging Consortium (SBIC), Agency for Science, Technology & Research (A*STAR)*
- P381: Targeting Apoptotic Cells In Vivo in Ischemia Stroke by a Novel Small-molecule Probe
Cheng Qian, Southeast University, Zhongda Hospital
- P382: Molecular Imaging of VCAM1 expression on the blood brain endothelium in animal model of MS
Lode Goethals, Universitair Ziekenhuis Brussel, Vrije Universiteit Brussel
- P383: Gadolinium-Gold nanoparticles for non-invasive detection of transplanted cells using MRI
Michel Modo, University of Pittsburgh
- P384: FDG PET Imaging of the Brain in a Mouse Model of Dystonia
Weibin Shi, University of Virginia
- P385: Motexafin Gadolinium-Enhanced Molecular MR and Optical Imaging of Rat Gliomas for Potential Intraoperative Determination of Tumor Margins
Longhua Qiu, University of Washington School of Medicine
- P386: Imaging of Retinal Vascular Disease Using Hypoxia-Sensitive Contrast Agents
Md Imam Uddin, Vanderbilt Eye Institute
- P387: Glymphatic Clearance Impaired In A Mouse Model of Tauopathy: Captured Using Contrast-Enhanced MRI
Asif Machhada, University College London, UCL Centre for Advanced Biomedical Imaging
- P388: In vivo two-photon imaging of neural activity for small animals
Hui Hui, Institute of Automation

Poster Session 3 (continued)

- P389: In vivo investigations of restorative neuronal functions during the circadian rhythm applying diffusion MRI
Mario Amend, University of Tuebingen
- P390: Molecular Imaging the Impact of Disrupted-In-Schizophrenia 1 in Glutamatergic Transmission
Wei-Ling Chen, Taichung Veterans General Hospital, China Medical University
- P391: Assessing the utility of gadolinium-based contrast agents administered by the intravenous and the intraperitoneal route
Jeyan Kumar, National Institute of Health
- P392: Altered GABAA receptor function by the administration of tiagabine in the rat brain: [18F]Flumazenil PET study using a bolus plus constant infusion protocol
Wook Kim, Seoul National University
- P393: Bioluminescence Imaging of Transplanted Human Endothelial Colony-Forming Cells in Ischemic Mice Model
Jie Ding, southeast university
- P394: Noninvasively track Schwann cells repair of peripheral nerve injury in vivo with MRI
Kangan Li, Shanghai First People's Hospital, Shanghai Jiaotong University School of Medicine
- P395: Imaging of reactive oxygen species in mouse brain by using [3H] Hydromethidine as a potential radical trapping radiotracer
Nozomi Takai, Shionogi & Co. Ltd.
- P396: PET imaging for evaluation of neurogenesis in adult mammalian brain
Yasuhisa Tamura, RIKEN
- P397: Accumulation of [18F]FACE in cerebral ischemia
Hiroshi Mizuma, RIKEN Center for Life Science Technologies
- P398: In-vivo magnetic resonance imaging of neurotransmitter reuptake
Aviad Hai, Massachusetts Institute of Technology
- Oncology**
- P399: Comprehensive characterization of tumor progression from precancer to invasive breast cancer using multiparametrical imaging
Jennifer Schmitz, Eberhard Karls University Tuebingen
- P400: Targeting CA19.9 for Radioimmunotherapy and Therapeutic Monitoring in Pancreatic Cancer
Ryan Lanning, Memorial Sloan Kettering Cancer Center
- P401: Quantifying Lactate Secretion in Tumours using Hyperpolarised Nuclear Magnetic Resonance
Markus Durst, Technical University of Munich
- P402: Prognostic evaluation of PET/MR imaging with [68Ga]-DOTA-A2B1 in gliomas
Chiun-Wei Huang, Chang Gung Memorial Hospital
- P403: Evaluating Natural Products against Human Gliomas through Molecular Imaging
Edwin Chang, Canary Center, Stanford University, Stanford University
- P404: Fluorescence imaging of lymph nodes and afferent lymph vessels in an in-vivo rat model differentiates normal from cancer-bearing nodes
Alisha DSouza, Dartmouth College
- P405: Effects of Fenbendazole on Tumor [18F]FDG-PET Imaging
Yun Lin, Department of Preclinical Imaging and Radiopharmacy, Eberhard Karls University
- P406: Volumetric Molecular Ultrasound Imaging of Tumor Angiogenesis: Intra-Animal Comparison with Dynamic Contrast-Enhanced Imaging
Huaijun Wang, Department of Radiology, Molecular Imaging Program at Stanford, Stanford University, School of Medicine
- P407: Detection of tumor macrophage recruitment by MRI following treatment with GSK2849330, an ADCC and CDC optimized anti HER3 mAb, in CHL-1 melanoma xenograft tumors
Hasan Alsaïd, GlaxoSmithKline
- P408: Delineation of tumor margins in vivo with an uPAR-targeted NIR optical imaging probe, using the fluorophor Indocyanine green.
Karina Juhl, Rigshospitalet and University of Copenhagen
- P409: Spatial distribution and intracellular delivery of therapeutic microRNA loaded nanocarriers in tumors using ultrasound induced microbubble cavitation
Tzu-Yin Wang, Stanford University
- P410: Assessment of low dose PET imaging of Non-Hodgkins lymphoma in a humanized transgenic mouse model using novel immunoPET tracer
Frezghi Habte, Stanford University
- P411: Targeted imaging of the KISS1 receptor for oncological bone disease in breast cancer and multiple myeloma
Robert Tower, University Hospital Schleswig-Holstein, Section Biomedical Imaging
- P412: Characterization of two patient derived colon cancer tumor models in mice
Marcel Krueger, University Hospital Tuebingen
- P413: Dose Ranging of Anti-Lymphangiogenic Treatment for Enhanced Antibody-based Therapy in an Animal Model of Head and Neck Cancer
Lindsay Moore, University of Alabama at Birmingham
- P414: Acoustic Radiation Force Decorrelation Weighted Pulse Inversion (ADW-PI) Method for Ultrasound Molecular Imaging
Frank Mauldin, University of Virginia
- P415: Radiation dosimetry of degradable polymer microspheres labeled with ^{99m}Tc and ⁶⁸Ga intended for radiomicrosphere therapy planning
Manuel Szejnberg, Centro Atómico Ezeiza
- P416: Stimulation of endothelin B receptors increases [18F]FDG uptake in cancerous lesions in mice
Svetlana Selivanova, CRCHUS, Université de Sherbrooke
- P417: Homomultivalent Fluorescent Imaging Agents Targeted to the Delta-Opioid Receptor for Cancer Imaging
Amanda Shanks Huynh, H. Lee Moffitt Cancer Center
- P418: Pre-clinical evaluation of a novel CEA-targeting near-infrared fluorescent tracer delineating colorectal and pancreatic tumors
Martin Boonstra, Leiden University Medical Center
- P419: Acid-Induced Collagen Remodeling Study in the Microenvironment of Tumors Using Window Chamber Model
mehdi damaghi, Moffitt Cancer Center
- P420: Predictive Estimation of Therapeutic Effects of Liposomal Anti-cancer Agents by SPECT/CT Imaging of Radiolabeled Liposomes in Mouse Xenograft Models
Izumi Umeda, National Cancer Center
- P421: Remnant living tumor cells exhibit cancer stem cells-like characteristics in histone deacetylase inhibitor resistant xenograft of lung cancer in mouse model
Wei-Ying Kuo, National Yang-Ming University

- P422: α V β 3 Integrin Targeted Tumor Theragnosis by Using Camptothecin Loaded c-RGD Conjugated Microbubbles in a Mouse Allograft Tumor Transplantation Model
Wei-Tsung Chen, Radiology Department, Taipei City Hospital, National Taiwan University, School of Medicine
- P423: Molecular imaging of polymer nanoparticles facilitated multi-microRNA therapy for triple negative breast cancer in small animal model
Rammohan Devulapally, Stanford University
- P424: Bioluminescence imaging reveals tissue specificity of extracellular vesicle-mediated biomolecule transfer in vivo
Masamitsu Kanada, Stanford University
- P425: Transgenic mice model expressing ER α -intramolecular folding reporter sensor for ER-ligand characterization—A special focus on environmental estrogen (Bisphenol-A) induced carcinogenesis
Thillai Sekar, Stanford University
- P426: Integrated Optical Tools Using Molecular Imaging for In Vivo Pathology in an Orthotopic Xenograft Model of Colon Cancer
Stephan Rogalla, Stanford University, Stanford University
- P427: Comparison of Acquisition Schemes for Hyperpolarised ^{13}C Magnetic Resonance Imaging
Markus Durst, Technical University of Munich
- P428: Imaging of Stem Cell in the Brain Using Integrated High-Performance SPECT/CT and SPECT/MR Systems
Irina Balyasnikova, University of Chicago
- P429: Administration route dependent effects of tumor-associated antigen specific Th1 cells during immunotherapy of cancer
Christoph Griessinger, Eberhard Karls University Tübingen
- P430: A novel small-molecule CXCR4 PET radioligand as companion diagnostics for anti-CXCR4 therapy
Yoon Hyeun Oum, Emory University
- P431: Molecular targeted theranostic photoimmunotherapy combining two types of monoclonal antibodies targeting different epitopes of HER2: enhanced phototherapeutic effect based on fluorescence molecular imaging.
Kimihiro Ito, Jikei University School of Medicine
- P432: In vivo Detection of miRNA expression in tumors using an activatable nanosensor
Anna Moore, Massachusetts General Hospital, Harvard Medical School
- P433: Imaging of the response of Head and Neck Squamous Cell Carcinoma to irradiation using a Poly(ADP-ribose) Polymerase 1 targeted optical imaging agent
Susanne Kossatz, Memorial Sloan Kettering Cancer Center
- P434: Imaging HGF with ^{89}Zr -DFO-Rilotumumab as a Companion Diagnostic for Rilotumumab Treatment of Gastric Cancer
Eric Price, Memorial Sloan Kettering Cancer Center, Memorial Sloan Kettering Cancer Center
- P436: Zirconium-89-Oxine Complex Enables Quantitative Monitoring of Systemic Bone Marrow Cell Trafficking by Positron Emission Tomography.
Noriko Sato, National Cancer Institute, NIH
- P437: Tumor pO $_2$ and glycolytic activity in pancreatic cancer xenografts as biomarkers to guide treatment.
Murali Cherukuri, NCI
- P438: 18F-Sgc8 ssDNA aptamer for PET Imaging of Tumor PTK7 expression
Orit Jacobson Weiss, NIBIB/NIH
- P439: OKN-007 decreases free radicals levels in a preclinical F98 rat glioma model
Rheal Towner, Oklahoma Medical Research Foundation
- P440: In vivo CA6-antigen stratification using ^{64}Cu -DOTA-B-Fab – a companion diagnostic for antibody-drug conjugate (SAR566658) therapy
Ohad Ilvovich, Stanford University
- P441: Monitoring Tumor Hypoxia Following High Dose Radiation Therapy Using Oxygen Sensitive MRI on a Lung Cancer Xenograft Rat Model
Heling Zhou, UT Southwestern Medical Center
- P442: Novel multimodal embedded imaging platform dedicated to translational research in oncology: Ultrasound & Photoacoustic imaging associated with biophotonics.
Florian RAES, French National Centre for Scientific Research (CNRS)
- P443: Ex-vivo detection of human oral cancer using an activatable fluorescence probe targeting γ -glutamyltransferase and the Artemis imaging system
Maxime Sooter, L.U.M.C.
- P444: Noninvasive imaging of macrophage migration to tumor lesion and their promotion of tumor growth in living mice with colon cancer using in vivo dual optical imaging
Seul-Gi Oh, School of Medicine, Kyungpook National University
- P445: Photoacoustic imaging of the endogenous molecular contrast of haemoglobin in preclinical models of colorectal cancer in response to vascular disruption with OXi4503
Sean Johnson, University College London
- P446: MicroPET/CT Imaging of Co-expressed EGFR and HER2 in Breast Cancer Tumour Xenografts in Mice using Bispecific Radioimmunoconjugates (bsRICs)
Luke Yongkyu Kwon, University of Toronto
- P447: Targeting RAGE expression in ovarian cancer for imaging and therapy
Yared Tekabe, Columbia University
- P448: Imaging tumor hypoxia using infrared fluorescent protein (iRFP) reporter under control of hypoxia driven HRE-promoter
Martin Schneider, ETH Zürich, University Zurich
- P449: Liposomal Nano-constructs for Image-guided Delivery in Tumor Vasculature
Sudath Hapuarachchige, Johns Hopkins University School of Medicine
- P450: Quantitative modeling of effect of radiation therapy on [18F]Dasatinib tumor uptake in a glioma xenograft model
Edward Fung, Memorial Sloan Kettering Cancer Center, Memorial Sloan Kettering Cancer Center
- P451: Study of Tumor Suppressive Response of microRNA let-7i in Rhenium-188 Liposomal Drug Treated Head and Neck Squamous Cell Cancer
Chun-Yuan Chang, National Yang Ming University
- P452: Molecular imaging of A431 tumor xenografts in mice to guide treatment regimen and obtain treatment response
shun kishimoto, NCI
- P453: Tumor-associated macrophage imaging to delineate the margins of glioblastoma using a triple-modality PET-MRI-fluorescent nanoparticle
Jung Sun Yoo, Seoul National University
- P454: Optical imaging visualized anti-metastatic effect of TSAHC, an inhibitor of TM4SF5, in nude mouse orthotopic liver cancer model.
Juri Na, Seoul National University, Seoul National University Hospital
- P455: Spectroscopic Photoacoustic Molecular Imaging of Breast Cancer Using an Antibody-Dye Contrast Agent
Katheryne Wilson, Stanford University
- P456: Micro- and nano- bubble based dual modality ultrasound and photoacoustic contrast agents for in vivo prostate cancer detection
Sri Rajasekhar Kothapalli, Stanford University

Poster Session 3 (continued)

- P457: Gold-198 Nanocluster for Cerenkov Luminescence Transfer Imaging and Tumor Therapy
Xiaowei Ma, Stanford University, Xijing Hospital, The Fourth Military Medical University
- P458: Three dimensional in vivo and ex vivo visualization of metastatic liver vasculature with Magnetic Resonance Imaging and Optical Projection Tomography
Angela d'Esposito, UCL
- P459: Multiparametric contrast enhanced ultrasound with VEGFR-2 targeted microbubbles and DCE-MRI for monitoring the effects of regorafenib on colorectal adenocarcinoma xenografts in rats with immunohistochemical validation
Ralf Eschbach, University Hospital Munich LMU
- P460: Biodistribution of IRDye700DX in Cynomolgus Tissues Following i.v. Cetuximab-IRDye700DX
Esther de Boer, University of Alabama at Birmingham, University Medical Center Groningen
- P461: Optimizing multislice acidoCEST MRI for assessments of extracellular pH in tumor and kidney tissues.
Edward Randtke, University of Arizona
- P462: PET-CT Imaging Of Tumor Angiogenesis And Metabolism For Evaluation Of Complementary And Alternative Medicine (CAM) Treatment Of Breast Cancer.
Iwona Dobrucka, University of Illinois at Urbana-Champaign
- P463: PET imaging with a novel phosphatidylserine-targeted molecular probe for monitoring cell death induced by chemotherapy.
Kai Chen, University of Southern California
- P464: Monitoring tumor response to chemotherapy by near-infrared fluorescence imaging of cell death using PSVue-T-643.
Kai Chen, University of Southern California
- P465: SPECT imaging of mouse xenografts expressing different levels of EGFR using ¹¹¹In-labeled ABT-806
Sarah Mudd, Abbvie
- P466: Pulsed radiotherapy alters dynamic tumor contrast enhancement in a mouse model of glioblastoma
Sarah Krueger, Beaumont Health System, Oakland University-William Beaumont School of Medicine
- P467: Integrin $\alpha 2\beta 1$ targeting PET imaging as a prognostic biomarker of malignant non-small Lung cancer in vivo: comparison with ¹⁸F-FDG
Shih-Ting Hsu, Center for Advanced Molecular Imaging and Translation
- P468: Improved identification and quantification of cancer tissue with paired-agent fluorescence guided brain tumor surgery: finding an optimal control agent
Xiaochun Xu, Illinois Institute of Technology
- P469: In vivo radiopharmaceutical excited fluorescence imaging for highly sensitive tumor detection
Kun Wang, Institute of Automation, Chinese Academy of Sciences
- P470: Towards a universal tumor-imaging agent: surface-enhanced resonant Raman spectroscopy (SERRS) nanostars for high-precision cancer imaging
Ruimin Huang, Memorial Sloan Kettering Cancer Center
- P471: ¹⁸F-Albumin PET imaging detects efficacy of the targeted angiogenesis inhibitor, sunitinib (RTK) in human glioblastoma (U87-MG) tumors
Elaine Jagoda, NCI
- P472: OKN-007 decreases VEGFR-2 levels in a preclinical GL261 mouse glioma model
Rheal Towner, Oklahoma Medical Research Foundation
- P473: Positron Emission Tomography of Furin Activity in Living Subjects with a Smart-Activatable Self-assembling probe
Niladri Chattopadhyay, Stanford University
- P474: Ultrasound and Microbubble Mediated Therapeutic Modulation of Hepatocellular Carcinoma using Two Complementary MicroRNAs
Sayan Mullick Chowdhury, Stanford University
- P475: ¹⁸F-labeled anti-CD20 cys-diabody for same day immuno-PET of B-cells malignancies in transgenic mice
Kirstin Zettlitz, University of California, Los Angeles
- P476: Targeting extracellular acidic tumor microenvironment in pancreatic adenocarcinoma: Multispectral Optoacoustic Tomography detects pH-low insertion peptide probes in vivo
Lacey McNally, University of Louisville
- P477: Longitudinal in vivo monitoring of cancer cachexia development points towards browning of white adipose tissue and enhanced utilization of fatty acids in brown adipose tissue
Wolfgang Thaiss, Werner Siemens Imaging Center, Diagnostic and Interventional Radiology
- P478: E-cadherin as a potential target to image epithelial-to-mesenchymal transition in vivo.
Gemma Dias, BC Cancer Research Centre
- P479: Targeted PET Imaging of Breast Cancer Using Bisphosphonates
Brad Ahrens, Beckman Research Institute at City of Hope
- P480: Investigation of Cancer Vaccine Formulations Using MRI and PET/CT
Christa Davis, Biomedical Translational Imaging Centre, IWK Health Centre
- P481: Evaluation of the Effect of High Intensity Focused Ultrasonic (HIFU) treatment with Liposome Encapsulated Doxorubicin on CT26 tumor model: drug release in vitro and therapeutic effect in vivo
Jeongil Kwon, Chonbuk National University Medical School and Hospital
- P482: DCA promotes tumor progression in vitro and in vivo
Benedikt Feueracker, Department of nuclear medicine, Technische Universität München
- P483: ⁴-[¹⁸F]Fluoroglutamine PET to Assess ASCT2 Expression in Lung Cancer
Jason Buck, Vanderbilt University, Department of Radiology and Radiological Sciences
- P484: Investigation on a minimally invaded sentinel lymph node model by high resolution ultrasound coupled to PA imaging with spectral unmixing and NIRF imaging.
Andrew Needles, FUJIFILM Visualsonics Inc.
- P485: In-vivo DCE-MRI for the discrimination between glioblastoma and radiation necrosis.
Julie Bolcaen, Gent University Hospital
- P486: Bone Marrow Derived Myeloid Cells Orchestrate Resistance to Anti-angiogenic Therapy in Novel Chimeric Mouse Model of Glioblastoma
Ali Arbab, Georgia Regents University
- P487: Development of Radiotherapeutic and Companion Imaging Agents to Target MC1R in Melanoma
Narges Tafreshi, H. Lee Moffitt Cancer Center
- P488: Engineered Antibody Fragments for PSMA-targeted Imaging and Therapy of Prostate Cancer
Liang Shan, Howard University
- P489: Why is it challenging to develop a gastro-oesophageal reflux disease by using rat as animal model? A new discovery: duodenum-gastric reflux in rat is a physiologic phenomenon.
Luca Basso, IRCCS San Martino IST Hospital



- P490: Intraoperative Identification of Metastasis in Sentinel Lymph Nodes Using Macrophage Targeted Fluorescent; Indocyanine Green:Neomannosyl Human Serum Albumin
Yuhua Quan, Korea University Guro Hospital, Korea University College of Medicine
- P491: Development of polyethylene glycol conjugated with indocyanine green as a photoacoustic tumor imaging probe
Kohei Sano, Kyoto University, Kyoto University Hospital
- P492: Towards clinical validation of the tumor-specific near-infrared fluorescent agent cRGD-ZW800-1
Hein Handgraaf, Leiden University Medical Center
- P493: In vivo PET- lymphography imaging and Cerenkov guided resection of metastatic lymph nodes in a PC3-mouse model
Hannah Lockau, Memorial Sloan Kettering Cancer Center
- P494: Combined IUDR and enriched characteristic X irradiation for Auger electron cancer therapy
Chien-Chih Ke, National Yang-Ming University
- P495: Near-Infrared Dye-Albumin Conjugates as Imageable Photothermal Theranostics for Imaging-Guided Cancer Therapy
Peng Huang, NIH
- P496: High Field In-Vivo MRI-Guided Development of Brain Edema Model
Jeeva Munasinghe, NIH/NINDS
- P498: In vivo visualization of murine KB tumors using folate-targeted photoacoustic nanoparticles
Hoang Lu, Princeton University
- P499: The relationship between Adenine Nucleotide Translocase2 expression and 18F-FDG uptake in anaplastic thyroid cancer
Chul-Hee Lee, Seoul National University, Seoul National University
- P500: Orthotopic Human Hepatocellular Carcinoma Model in Rabbits for Combined Ultrasound-Guided and Transcatheter Hepatic Arterial Drug Delivery
Sunitha Bachawal, Stanford University, School of medicine
- P501: Tumor cellularity is a negative prognostic factor of pancreatic cancer identified by diffusion weighted – magnetic resonance imaging
Rickmer Braren, Technische Universität München
- P502: Combining radioimmunotherapy with cetuximab significantly enhances therapeutic efficacy in localized and metastatic models of colorectal cancer
Vessela Vassileva, UCL Cancer Institute
- P503: Fluorescence-guided Resection of Glioma using Fluorescently-labeled Antibodies
Jason Warram, University of Alabama at Birmingham
- P504: Targeting lysyl oxidase for molecular imaging in breast cancer – a preclinical study in mice with correlation to human tissue samples
Melinda Wuest, University of Alberta
- P505: Phage Display Selection of ErbB2/ErbB3 Targeting Peptides
Susan Deutscher, Harry S. Truman Veterans Memorial Hospital, University of Missouri
- P506: Biodistribution of Macrophage Internalized Gold Nanoshells in a 4T1 Murine Model
Barry Edwards, University of Pittsburgh
- P507: Radiofrequency Hyperthermia-Enhanced Local Chemotherapy of Pancreatic Cancers: Monitored by Dual Modality Imaging
Zhibin Bai, University of Washington School of Medicine
- P508: Radiofrequency Hyperthermia Enhanced Herpes Simplex Virus-Thymidine Kinase Gene Therapy of Hepatocellular Carcinoma: Monitored by Dual-Modality Imaging
Jianfeng Wang, University of Washington, School of Medicine, Beijing Chaoyang Hospital

First-in-Human & Clinical Studies

Oncology

- P509: Multiplexed molecular imaging with targeted SERS nanoparticles for intraoperative guidance of tumor resection
Yu Wang, University of Washington
- P510: Imaging of the invasive prostate cancer phenotype: a first-in-human study using uPAR PET/CT
Andreas Kjaer, Rigshospitalet & University of Copenhagen
- P511: Fluorescence-guided resection of newly-diagnosed glioblastoma: A tumor morphology and survival benefits analysis of Phase II clinical trial data
James Cordova, Emory University
- P512: Intraoperative micro-hepatocellular carcinoma detection using surgical navigation system with fluorescence molecular imaging technology
Chongwei Chi, Institute of Automation, Chinese Academy of Sciences
- P513: Imaging Patients with Breast and Prostate Cancers Using Combined 18F NaF/18F FDG and TOF simultaneous PET/ MRI
Andrei Iagaru, Stanford Hospital and Clinics
- P515: High resolution micro-endoscopy for the diagnosis of gastric carcinoma and precancerous lesions
Haifeng Liu, General Hospital of Chinese Armed Police Forces
- P516: 68Ga-PSMA dynamic PET/CT in prostate cancer
Antonia Dimitrakopoulou-Strauss, German Cancer Research Center
- P517: Clinical value of FAZA-PET/CT in advanced lung cancer patients: comparison with FDG-PET/CT
Tsuneo Saga, National Institute of Radiological Sciences
- P519: Clinical Trial: Safety of 68Ga-DOTATATE PET/CT in Patients with Neuroendocrine Tumors
Ronald Walker, Vanderbilt University Medical Center
- P520: Correlation Study between Choline and β -catenin Molecular Pathways in Breast Cancer using in-vivo MR Spectroscopy and ELISA
Naranamangalam Jagannathan, All India Institute of Medical Sciences
- P521: Fluorescence imaging characteristics of the intravital tumor targeting agent BLZ-100 from a first in human skin cancer study
Miko Yamada, The University of Queensland
- P522: Mapping relative and absolute brain tissue pH using pixelwise, multipower SAFARI
Kyle Jones, University of Arizona
- P523: Diagnostic Performance of Hybrid PET/MR for Determination of Preoperative axillary Lymph Node Status in Patients with invasive breast cancer
Eun-jung Kong, Yeungnam Univ Hospital
- P524: The prognostic value of total lesion glycolysis via 18F-fluorodeoxyglucose PET-CT in surgically treated esophageal squamous cell carcinoma
Joon-Kee Yoon, Ajou University Medical School
- P525: Pulmonary Nodule Detection during Fluorescence Image-guided Surgery with Indocyanine Green
Hyun Koo Kim, Korea University Guro Hospital, Korea University College of Medicine
- P526: NIS-guided drug development: the contribution of reporter gene imaging
Stephen Russell, Mayo Clinic
- P527: Brain tumor cellularity maps trained with co-registered histology predict tumor presence in pathologically confirmed regions sampled ex-vivo
Peter LaViolette, Medical College of Wisconsin
- P528: Effects of Respiratory-gated 18F-FAZA PET-CT on Hypoxic Fraction in patient and phantom
Douglass Vines, Princess Margaret Cancer Centre, University of Toronto
- P529: First clinical experience of solid state digital PET/CT in oncologic FDG imaging
Michael Knopp, The Ohio State University Wexner Medical Center
- P530: Dedicated breast PET (dbPET) the extraordinary contribution of Molecular Imaging in the assessment response to neoadjuvant therapy in breast cancer.
Michel Herranz, University Hospital Complex
- P531: The survival-paradox of patients with differentiated thyroid cancer
Alexis Vrachimis, University Hospital of Muenster
- P532: Molecular Imaging of Non-Small Cell Lung Cancer (NSCLC) using 82Rubidium and 18FDG PET/CT
thida Win, East and North Herts NHS Trust
- P533: PERCIST guidelines is better than EASL and RRECIST in assessing the short-term response in primary hepatocellular carcinoma after interventional therapy
Shengjun Wang, Fourth Military Medical University
- P535: Comparison of image quality with 62Cu and 64Cu-radiotracers in whole body tumor imaging
Masato Kobayashi, Kanazawa University
- P536: Ductal carcinoma in situ and ductal carcinoma in situ with microinvasion: correlation of F-18 FDG uptake with histological and biological prognostic factors
YE YOUNG SEO, Yeouido St Mary's Hospital, College of Medicine, The Catholic University of Korea
- P537: FDG PET/CT total lesion glycolysis predicts prognosis in patients with operable extrahepatic cholangiocarcinoma
Eun Jeong Lee, Seoul Medical Center
- P538: Physiology of breast parenchyma: Association of breast parenchymal uptake of 18FDG with age, tissue composition and breast parenchymal enhancement on dynamic contrast-enhanced breast MRI
Doris Leithner, University Hospital Frankfurt/Main
- P539: Not all DTC patients with N positive disease deserve the attribution "high risk". Contribution of the MSDS trial
Alexis Vrachimis, University Hospital of Muenster
- P540: Multimodality imaging in Von Hippel-Lindau (vHL) Syndrome with emphasis on the value of new molecular imaging agents
Vani Vijayakumar, University of Mississippi Medical Center
- P541: Prognosticating Outcomes and Dose Painting in Lung Cancer using Fdg-Pet in the Era Of 4-D Computerized Tomography Based Radiotherapy Treatment Planning
Srinivasan Vijayakumar, University of Mississippi Medical Center
- P542: Clinicopathologic factors associated with F-18 FDG uptake of early gastric cancer
Joon-Kee Yoon, Ajou University Medical School
- P543: Stimulated Raman imaging of brain and breast cancer tissue for label-free surgical pathology
Nathalie Agar, Brigham and Women's Hospital, Dana-Farber Cancer Institute
- P544: Defining the Priority of 18F-FDG PET for Curative Intent Concurrent Chemoradiotherapy in Small Cell Lung Cancer
Tzu-Chen Yen, Chang Gung Memorial Hospital

- P545: Early Experience with Radium 223 Xofigo Therapy in Patients with Prostate Bony Metastases.
Isis Gayed, University of Texas Health Science Center at Houston
- P546: Correlation of FDG-PET imaging with fibronectin expression in non-small cell lung cancer
Bi Fang Lee, National Cheng Kung University Hospital
- P547: Fluorine-18 fluorocholine PET/CT reflects CDP-choline metabolism as one of the two major phosphatidylcholine synthesis pathways in the liver
Sandi Kwee, University of Hawaii, The Queen's Medical Center
- P548: Image Registration and Integration of PET-CT and SPECT functional imaging with Anatomic MRI fusion as an alternative to hybrid imaging in localizing epileptogenic cortex, tumors and Radiation Therapy Planning
Vani Vijayakumar, University of Mississippi Medical Center
- P549: Staff Exposure from Tc-99 Nuclear Medicine Department
Khalid Alzimami, King Saud University, King Saud University
- P550: The value of intraoperative near-infrared fluorescence imaging based on enhanced permeability and retention of indocyanine green: feasibility and false-positives in ovarian cancer
Leonora Boogerd, Leiden University Medical Center
- P551: Thyroid Absorbed Dose Estimate Using I-123 MIBG Imaging
Jianqiao Luo, Virginia Commonwealth University
- P552: Critical Decision Points in Screening and Diagnosis of Prostate Cancer and the Role of Molecular Biomarkers: Implications for the Imaging Community
Srinivasan Vijayakumar, University of Mississippi Medical Center
- P553: 18F-FES PET/CT Estrogen Receptor Activity Imaging of Desmoid Tumors
Karen Ayres, Vanderbilt University Hospital
- P554: Case Report: Glioblastoma Imaging and Therapy with 64CuCu12
Gianluca Valentini, ACOM Advanced Center Oncology Macerata SpA
- P555: Treatment response evaluation using 18F-FDG PET-CT in patients with recurrent head and neck cancer.
Rakesh Kumar, AIIMS
- P556: Prognostic surrogate markers for survival, a case series for a novel antiangiogenic therapy (Multi-targeted Epigenetic therapies/MTET)
M. Nezami, Pacific Medical Center of Hope
- P562: In vivo HER2-Targeted Magnetic Resonance Tumor Imaging Using Iron Oxide Nanoparticles Conjugated with Anti-HER2 Single Chain Antibody
Kohei Sano, Graduate School of Pharmaceutical Sciences, Kyoto University, Kyoto University Hospital
- P563: An integrated approach to modeling targeted agent penetration into pancreatic tumors using intravital fluorescence microscopy.
Veronica Estrella, H. Lee Moffitt Cancer Center
- P564: Dynamic PET evaluation of the increased FLT uptake level after sorafenib treatment in mice bearing a human renal cell carcinoma xenograft
Naoyuki Ukon, Hokkaido University
- P565: Early prediction of response to capecitabine with 3'-deoxy-3'-[18F] Fluorothymidine positron emission tomography in mice bearing human colon cancer xenografts
Seog-Young Kim, Institute for Innovative Cancer Research
- P566: Visualization of CD44 expression and CD44+ cancer stem like cell in Breast cancer by Gamma irradiation
Yong Jin Lee, Korea Institute of Radiological and Medical Sciences
- P567: Enhancement of Trastuzumab penetration using Atorvastatin and Cyclophosphamide to Her2+ NCI N87 xenograft mouse model
KyungDeuk Cho, Korea Institute Radiological and Medical Sciences
- P568: Differential Impact of Ubiquitin-Activating Enzyme (UAE) Inhibition on 3'-Deoxy-3'-[18F]Fluorothymidine (FLT) and 2-Deoxy-2-[18F]Fluoro-D-Glucose (FDG) Uptake: Studies in Cells and Cell- or Patient-Derived Xenograft Tumor Models
Nicolas Salem, Millennium Pharmaceuticals, Inc., a wholly owned subsidiary of Takeda Pharmaceutical Company Limited
- P569: In vivo fluorescent imaging of tumor bombesin and transferrin receptor expression as early indicators of Sorafenib efficacy in small animal models
Jeffrey Peterson, PerkinElmer
- P570: Integration of Craniocaudal Rotation System in Molecular Image Guided Radiation Therapy.
Rao Papineni, Precision X-Ray Inc, University of Kansas Medical Center
- P571: Ultrasound mediated siRNA and Chemotherapeutic Drug Delivery in treatment of Prostate cancer: In vivo and in vitro Evaluation
Hak Jong Lee, Seoul National University Bundang Hospital, Seoul National University
- P572: Glutathione Peroxidase 3 (GPx3) suppressed HCC invasiveness through JNK-cJun-MMP2 signaling pathway - Application of in vivo real-time molecular imaging
Kwan Man, The University of Hong Kong
- P573: Tumor Progression and Regression Monitoring using Hyperpolarized [1-13C] Pyruvate Metabolic Imaging in a Breast Cancer Murine Model
Peter Shin, UCSF
- P574: Integrin expression and angiogenesis in Non Small Cell Lung Cancer (NSCLC): A in vivo hybrid Fluciclatide PET/ CT perfusion molecular imaging study.
Thida Winn, University College London
- P575: A PEG-free Biomimetic Porphyrin NanoplatforM for Personalized Cancer Theranostics
Juan Chen, University Health Network, University of Toronto
- P576: Assessing Changes in Tumor Extracellular pH during Metabolism-Targeting Therapies with acidoCEST MRI
Paul Akhenblit, University of Arizona
- P577: Optical Imaging-Monitored Intra-Esophageal Radiofrequency Hyperthermia-Enhanced Local Chemotherapy of Esophageal Cancers
Yaoping Shi, University of Washington School of Medicine

Preclinical in vivo Studies

Oncology

- P558: Imaging β -glucuronidase Activity in Human Breast Cancer Tumor Xenografts Using Fluorescein Substrate
Li Liu, UT southwestern Medical Center
- P559: EGFR targeted nanobody-photosensitizer conjugates for imaging and photodynamic therapy in head and neck cancer – first preclinical studies
Paul van Bergen en Henegouwen, Utrecht University
- P560: Ketamine/Xylazine anesthesia reveals superior signal-to-noise ratios in 18F-FAZA-PET tumor hypoxia imaging when compared to Isoflurane anesthesia
Wolfgang Thaiss, Werner Siemens Imaging Center, Diagnostic and Interventional Radiology
- P561: How Improvements in In-vivo Cell Labeling by MRI Contrast Agents Led to Better Drug Delivery
Li Liu, Carnegie Mellon University

Poster Session 4 (continued)

- P578: TSPO PET to Visualize Patient-Derived Glioma
James Harty, Vanderbilt University
- P579: In vivo PET imaging of ⁶⁴Cu-NOTA-aptide targeting tumor-associated fibronectin extra domain B
Mi Jeong Kim, Seoul National University, Cancer Research Institute, Seoul National University
- P580: Antibody mimics, fibronectin domain III for EphA2-targeting as a probe in murine tumor model
Seung-Hwan Park, Chonnam National University Medical School
- P581: Radiosynthesis and In Vivo evaluation of ⁶⁴Cu Labeled Repebody for EGFR-mediated tumor Imaging in Small Animals
Ayoung Pyo, Chonnam National University Hwasun Hospital
- P582: A novel ⁶⁸Ga-labeled c(CGRRAGGSC) for microPET imaging of IL-11 receptor expression
Jin Sun, Jiangsu Province Hospital
- P583: Understanding blood brain barrier breakdown in a metastatic tumor mouse model, using bioluminescence with ABCG2 inhibition
Jeyan Kumar, National Institute of Health
- P584: Biological Evaluation of RGD-EGF Fusion Protein as a Dual-targeting Theranostic Agent
Jia-Je Li, National Yang-Ming University
- P585: Microscopic Imaging Reveals Preferential Tumor Cellular Uptake and Retention of Indocyanine Green for In Vivo Imaging
Nobuhiko Onda, Olympus Corporation, Tokyo University of Agriculture and Technology
- P586: Non-invasive Bioluminescence Imaging of AKT Kinase Activity and Apoptosis Reveals Therapeutic Efficacy in Tumor Mouse Models of Human Lung and Brain Cancer
Thomas Poeschinger, Roche Innovation Center Penzberg
- P587: Single Injection of scVEGF/177Lu Targeted to VEGF Receptors Inhibits Growth of 4T1luc Breast Bone Metastases in Syngeneic Mice
Joseph Backer, SibTech, Inc.
- P588: Multi-modality patho-physiological imaging of orthotopic glioblastoma in mouse brain
Chris, Jun Hui Ho, Singapore Bioimaging Consortium
- P589: Imaging glucose and fructose metabolism in breast cancer: A mouse study
Melinda Wuest, University of Alberta
- P590: Tracking Breast Cancer Tumor Growth and Angiogenesis in vivo with Perfluorocarbon Microbubbles
Danny Robles, University of Arizona, University of Arizona
- P591: Photodynamic therapy inhibited tumor growth by targeting upregulated translocator protein in mitochondria
Mingfeng Bai, University of Pittsburgh
- P592: Comparing alkylphosphocholine analogs NM346 & NM397 in a breast cancer murine model
Justin Jeffery, University of Wisconsin-Madison, University of Wisconsin-Madison
- P593: Early monitoring of tumor response to photothermal therapy delivered by nano-graphene oxide through T2*-weighted and Diffusion-weighted MRI
Fan Zhang, Xiamen University
- P594: Nanoparticle-based translational MR Imaging for immune-therapy trials in glioblastoma
Olga Lenkov, Stanford University
- P595: Antibody radiolabeling: Improving tumor contrast in vivo by blocking the neonatal Fc receptor.
Gemma Dias, BC Cancer Agency
- P596: Open air fluorescence imaging of tumors using the Solaris imaging system
Jeffrey Meganck, PerkinElmer
- P597: Comparison of In Vivo Distribution of ⁶⁴Cu-labeled Trastuzumab Fragments Conjugated with DOTA, NOTA, and NODAGA in PET Imaging of Tumor-bearing Mice.
Yousuke Kanayama, RIKEN Center for Life Science Technologies
- P598: Orthotopic Canine Prostate Cancer Model for Molecular Imaging of Human Cancer Receptors
Michael Tweedle, The Ohio State University, The Ohio State University
- P599: Imaging tumor microenvironment with ¹²⁵I-iodinated hyaluronan
Zhonglin Liu, The University of Arizona
- P600: Visualization of EGFR expressing mammary carcinomas in mice by SPECT applying ^{99m}Tc(CO)₃-labeled single domain antibodies
Thomas Krüwel, University Medical Center Göttingen
- P602: Dual assessment of early tumor hypoxia: oxygen partial pressure measurement coupled to photoacoustic imaging in breast carcinoma models in mice.
Florian RAES, French National Centre for Scientific Research (CNRS)
- P603: Evaluation of ¹¹C-Acetate and ¹⁸F-FDG PET/CT in Mouse Multidrug Resistance Gene-2 Deficient Mouse Model of Hepatocellular Carcinoma
Paul Territo, Indiana University School of Medicine
- P604: Determination of GD2 Expression in Osteosarcoma with PET
Elizabeth Butch, St. Jude Children's Research Hospital
- P605: Two-stage combined imaging method to detect sentinel lymph node metastasis using ^{99m}Tc phytate and Affibody fluorescent probes in animals
Makoto Tsuchimochi, The Nippon Dental University School of Life Dentistry at Niigata, The Nippon Dental University Graduate School of Life Dentistry at Niigata
- P606: Application of texture analysis to SPECT images of ¹²⁵I-A5B7 anti-CEA antibody localisation in metastatic colorectal cancer models: Correlation with histological microarchitecture and response to antivasular therapy.
Vineeth Rajkumar, University College London
- P607: Cancer-specific killer-reporter adenovirus for curative fluorescence-guided surgery of soft-tissue sarcoma
Robert Hoffman, AntiCancer, Inc., University of California San Diego
- P608: Detection of mouse liver cancer by means of fluorescence molecular tomography after indocyanine green enhancement
Jinzuo Ye, Institute of Automation
- P609: In vivo fluorescence and MR imaging of delivery of IL-4 receptor-targeted Bcl-xL siRNA/BPEI-SPION complexes to tumor for anti-tumor therapy
Guruprasath Padmanaban, Kyungpook National University, Kyungpook National University
- P610: NMR Metabolomics and Hyperpolarized Magnetic Resonance Imaging Reveal Altered- Metabolism in Patient-derived Pancreatic Ductile Adenocarcinoma (PDAC) Mouse Xenografts
Prasanta Dutta, M.D. Anderson Cancer Center
- P611: Molecular imaging of drug delivery by using high resolution microscopic mass spectrometry
Masahiro Yasunaga, National Cancer Center Hospital East
- P612: Comparison of tumor uptake of the radiotracers targeting cancer metabolism
Takako Furukawa, National Institute of Radiological Sciences
- P613: Mouse dosimetry studies for ⁶⁴Cu-DOTA-B-Fab - an immunoPET companion diagnostic for antibody-drug conjugates targeting CA6
Ohad Illovich, Stanford University

- P614: Combined Endogenous Chemical Exchange Saturation Transfer and Hyperpolarized ^{13}C -Pyruvate Metabolism Imaging in Subcutaneous Tumours in Rats
Geoffrey Topping, Technische Universität München
- P615: Molecular Magnetic Resonance Imaging of Breast Cancer using Core/Shell Nanoparticles
Barbara Blasiak, University of Calgary
- P616: A preliminary study for radioimmunotherapy targeting FOF1 ATP synthase in stomach cancer xenograft model using I-131 ATP synthase mAb
Joon-Kee Yoon, Ajou University Medical School
- P617: In vivo photoacoustic microscopy of nanocarrier-enhanced chemotherapy response in small animal.
Liming Nie, Center for Molecular Imaging and Translational Medicine
- P618: Optimizing ^{99m}Tc -etarfolatide imaging of folate receptor-positive tumors: Effect of mass dose and post injection time
Christopher Leamon, Endocyte, Inc.
- P619: Limits of bioluminescence imaging highlighted by High resolution Ultrasound and Photoacoustic imaging on orthotopic mice models of hypoxic cancers.
Florian RAES, French National Centre for Scientific Research (CNRS)
- P620: Phosphoramidon Improves the Theranostic Prospects of the GRPR-Antagonist SB3, Labeled with Different Radiometals
Theodosia Maina, INRASTES, NCSR "Demokritos"
- P621: Peptide-guided in vivo optical imaging and targeted delivery of therapeutics to lung tumor in a transgenic mouse model
HyunKyung Jung, kyungpook national university, Tumor Heterogeneity and Network Research Center
- P622: The Compatibility of Barcode Eartags for Automated Animal Identification in Small Animal Imaging Modalities.
Eric Ibsen, RapidLab, Studylog Systems, Inc.
- P623: Biodistribution of ^{89}Zr -labeled ABT-806 in the cynomolgus macaque
Sarah Mudd, AbbVie
- P624: UVC irradiation cures metastatic human pancreatic cancer by killing residual disease remaining after fluorescence-guided surgery in orthotopic mouse models
Robert Hoffman, AntiCancer, Inc., University of California San Diego
- P625: Therapeutic evaluation of ^{188}Re -human serum albumin microsphere in hepatoma model by 3D ultrasound
Liang-Cheng Chen, Institute of Nuclear Energy Research
- P626: Hyaluronic Acid-Based Nanoplatfom for Prostate Cancer Therapy
Magdalena Swierczewska, Johns Hopkins University
- P627: Redox- and pH-sensitive polymeric micelles based on poly(β -amino ester)-grafted-disulfide methylene oxide poly(ethylene glycol) for anti-cancer drug delivery
Moon-Sun Jang, Samsung Medical Center, Sungkyunkwan University School of Medicine and Center for Molecular and Cellular Imaging, Samsung Biomedical Research Institute
- P628: Characterization of Preclinical Intratumor Heterogeneity via Textural Analysis on ^{18}F -Fluorodeoxyglucose and ^{18}F -Fluorothymidine Positron Emission Tomography Images
Ozlem Yardibi, Takeda Pharmaceuticals Inc.
- P629: Optimization of tri-contrast microCT for detection of colon lesions in a longitudinal murine model
Michelle Williams, The Ohio State University
- P630: Integrin-targeted fluorescence molecular imaging of neoangiogenesis in a small-cell lung cancer model
Valerie Phi van, TU München
- P631: Fluorescence-guided surgery inhibits recurrent and increases survival in an orthotopic osteosarcoma nude-mouse model
Robert Hoffman, AntiCancer, Inc., University of California San Diego
- P632: ^{44}Sc labelling of DOTA-PSMA DKFZ-617 for dosimetry and therapy of prostate cancer
Ana de la Fuente, Johannes Gutenberg University
- P633: The Monitoring Value of PET in Huaier Extract to Therapy of Nude Mice Bearing Human Breast Cancer Xenografts
chen yao, nuclear medicine
- P634: Smart viral nanoparticles targeting angiogenic vasculature for tumor imaging and treatment
John Lewis, University of Alberta
- P635: Developing a molecularly targeted T2-exchange MRI contrast agent for the early detection and diagnosis of primary and recurring thyroid cancers
Mark Milne, UT Southwestern Medical Center
- P636: Investigation of the ExiTron imaging agents.
Inneke Willekens, UZ Brussel
- P637: Variable-magnification and spectral-separation fluorescence imaging systems are complementarity for noninvasive detection of metastasis and intravital detection of single cancer cells in mouse models
Robert Hoffman, AntiCancer, Inc., University of California San Diego
- P638: Tumor-targeting Salmonella typhimurium A1-R inhibits spontaneous and experimental lung metastasis of soft-tissue sarcoma
Robert Hoffman, AntiCancer, Inc., University of California San Diego
- P639: Glutathione responsive anti-proliferative nanoparticle for efficient delivery of therapeutic gene in colon cancer xenograft mouse model
In Kyu Park, Chonnam National University
- P640: Real-Time Molecular Imaging for Detecting Oncogenic Activity in Melanoma Using the Melanoma Detection System (MDS)
Catherine Shachaf, Orlucent
- P641: The Role of USPIO in Evaluating the Dignity of a Lesion
Perla Seyfer, University Hospital of Marburg
- P642: Fluorescence-guided surgery of prostate cancer bone metastasis in combination with Zoledronic acid increases disease-free survival in nude mouse models
Robert Hoffman, AntiCancer, Inc., University of California San Diego

Reporter Genes, Signal Transduction & Epigenetics

- P643: Bioluminescent imaging and real time monitoring of hepatic apoptosis (caspase-3 activity) in mice.
Michitaka Ozaki, Hokkaido University School of Medicine
- P645: The More Efficient Radioiodine Therapy Induced by BRG1 Bromodomain Dominant Negative Effect has been Visualized in vivo mouse.
Juri Na, Seoul National University, Cancer Research Center
- P646: Quantitative In Vivo pO₂ Images with Electron Paramagnetic Resonance and Cancer
Howard Halpern, University of Chicago
- P647: The urea transporter – an MRI gene reporter that can be detected using transmembrane water exchange measurements
Franz Schilling, Cancer Research UK Cambridge Institute, University of Cambridge, Li Ka Shing Centre

Poster Session 4 (continued)

- P648: An Integrated Imaging and MicroRNA-based Blood Reporter Strategy for Cell Tracking in Mice
Aloma D'Souza, Stanford University
- P649: Magnetic Resonance Imaging (MRI) of Adipose-Derived Mesenchymal Stem Cell Enhanced Tropism For Brain Tumors
Lina Alon, Johns Hopkins University School of Medicine, Institute for Cell Engineering
- P650: The assessment of tumor's malignant-behavior with MR ferritin reporter imaging mediated by hTERT promoter
Dong ZHANG, Xinqiao Hospital, Third Military Medical University
- P651: Non-invasive Molecular Imaging Of Tumor Metastasis Affected By MicroRNA Let-7 Family
man-jyun Liao, yang-ming university
- P652: In vivo Bioluminescence Imaging (BLI) Tracking of Mesenchymal Stem Cells (MSCs) Survival and Proliferation in Injured Liver
Dan Li, The Third Affiliated Hospital of Sun Yat-sen University
- P653: Simultaneous in Vivo Monitoring Adipose Derived Mesenchymal Cells by Ffly-mcherry and Gaussia-GFP Reporter Genes
Mengyu Wang, Oslo University Hospital
- P654: Temporal analysis of hippocampal glucocorticoid receptor activity in the therapeutic action of fluoxetine
Song Her, Korea Basic Science Institute
- P655: Imaging of neuronal associated miRNA expression using transgenic mouse model via reporter system
Yoori Choi, Seoul National University

Technology & Software Developments
Clinical PET/SPECT

- P656: Use of a Variational Bayesian inference method for the quantification of brain PET data at the voxel level
Gaia Rizzo, University of Padova
- P657: Spatial resolution recovery utilizing multi-ray tracing and graphic processing unit in PET image reconstruction
HAO PENG, McMaster University
- P658: Velocity estimation for mucociliary transit studies using purpose written software
Alice Cottee, Concord Hospital
- P659: GPU-based prompt gamma ray imaging from boron neutron capture therapy
Do-Kun Yoon, The Catholic University of Korea
- P660: An operator independent method for lesion segmentation to evaluate metabolic response in MET-PET studies
Alessandro Stefano, CNR-IBFM
- P661: Classification Study of 99mTc-TRODAT-1 SPECT Image by Skewness and Dopamine Transporter Activity Volume
Yun-Hsuan Hsu, E-DA Hospital, I-Shou University
- P662: Research on Sensitivity Improvement of Semiconductor PET Scanner with the use of event data by multiple interaction: A Simulation Study
Yohei Kikuchi, Graduate School of Engineering, Tohoku University
- P663: Comparison between Tumor heterogeneity and PET imaging features in non-small cell lung cancer
Hyeon Sik Kim, Chonnam National University Hwasun Hospital
- P666: Scattering Correction of SPECT by Fourier Transformation on Projection Data
Huei-Yung Chen, E-DA Hospital, I-Shou University

- P667: Development of application program based on Fuzzy logic to enhance the image contrast on PET Scan
Anil Pandey, All India Institute of Medical Sciences, New Delhi

CT

- P668: High-sensitivity x-ray fluorescence computed tomography using gold L-shell characteristic x-rays
Moiz Ahmad, Stanford University
- P669: Spectrum-based Calibration Method for Energy Discriminating X-ray Detectors Using Commercial X-ray Generators
Xiaoman Xing, Suzhou Institute of Biomedical Engineering and Technology
- P670: Reproducibility over time of 4DCT derived ventilation distribution data
Geoffrey Zhang, Moffitt Cancer Center
- P671: Automated detection, segmentation, axis extraction, and morphometric analysis of cortical and trabecular compartments of skeletal bones in small animal micro-CT imaging
Ali Behrooz, PerkinElmer
- P672: Iterative CT Image Reconstruction with non-local Prior Image Integration
Maik Stille, University of Luebeck
- P673: Novel Integrated Parameter Based Stopping Criterion for Iterative Reconstruction Methods
Shih-Chun Jin, National Yang-Ming University
- P674: A Method for the Reduction of Respiratory Motion Blur in Small Animal Computed Tomography
Richard Taschereau, Crump Institute for Molecular Imaging, UCLA

Hybrid Multimodality

- P675: Quantitative evaluation of bone-anatomy compensation methods for MR-based attenuation correction for brain PET imaging in a time-of-flight PET/MRI system
Jaewon Yang, UCSF
- P676: Multi-scale Cryo-imaging Platform for Analysis of Molecular MR imaging of Micro-metastases
David Wilson, Case Western Reserve University
- P677: Optimized Image Generation with Hybrid Optoacoustic Ultrasound System using Concave Arrays
Elena Nasonova, Institute for Biological and Medical Imaging (IBMI), Helmholtz Center Munich, iThera Medical GmbH
- P678: Ex Vivo Assessment of Perfluorocarbon Emulsion as a Theranostic Agent of 19F MR-guided Focused Ultrasound
ChangKi Min, National Cancer Center
- P679: Development of a PET/OMRI combined system for simultaneous imaging of positron and free radical probes in small animals
Seichi Yamamoto, Nagoya University Graduate School of Medicine
- P680: Quantitative estimation of EGFR expression in orthotopic preclinical brain tumors with MRI-guided fluorescence tomography data: image reconstruction vs. projection analyses
Negar Sadeghipour, Illinois Institute of Technology
- P681: Do Carotid MR Surface Coils Affect PET Quantification in PET/MR Imaging?
Venkatesh Mani, Icahn School of Medicine at Mount Sinai, Icahn School of Medicine at Mount Sinai
- P682: Ultrasound-bioluminescence hybrid modality imaging in a rodent model of breast cancer
Ryan Gessner, SonoVol

- P683: Feasibility of 18F-Fluorodeoxyglucose Radiotracer Dose Reduction in Simultaneous Carotid PET/MR Imaging
Venkatesh Mani, Icahn School of Medicine at Mount Sinai, Icahn School of Medicine at Mount Sinai
- P684: Workflow of sequential in vivo Magnetic Particle Imaging and in vivo Magnetic Resonance Imaging in mouse
Michael Kaul, University Medical Center Hamburg-Eppendorf
- P685: In Vivo Observation of Tumor with Triple-modality Imaging
xiao liang, Chinese Academy of Sciences
- MRI**
- P686: In Vivo Perfusion Imaging using Magnetic Particle Imaging
Patrick Goodwill, University of California, Berkeley, Magnetic Insight, Inc.
- P687: Tracer kinetic model selection of pre- and post-therapy cervical cancer DCE MRI data
Joel Garbow, Washington University
- P688: In Vivo Non-invasive Detection of Brown Adipose Tissue through Manganese Enhanced Magnetic resonance Imaging (MEMRI)
Francesca Rosa, IRCCS IST- San Martino
- P689: Simultaneous Detection of Glutathione and Lactate using Spectral Editing at 3T
Peter Barker, Johns Hopkins University
- P690: Quantitative Susceptibility Mapping Based Microscopy of Magnetic Resonance Angiography (QSM-mMRA) for In Vivo Morphological and Functional Assessment of Cerebrovascular
Meng-Chi Hsieh, National Taiwan University, National Taiwan University
- P691: In vivo Manganese enhanced Magnetic Resonance imaging (MEMRI) as new tool to evaluate rat bone marrow cellularity
Francesca Rosa, IRCCS IST- San Martino
- P692: Usefulness of 3D Fast Spin-Echo Protocol for Vessel Wall Imaging in Cerebral Main Artery Stenosis.
Michiya Igase, Ehime University Graduate School of Medicine
- P693: A Machine-Learning Approach for Automated Classification of Spectral Quality and Metabolic Abnormality in High-Resolution, 3D MR Spectroscopic Imaging of Gliomas
James Cordova, Emory University
- P694: Integrating Histology with MR Spectroscopic Imaging Using Digital Whole-Slide Image Analysis
James Cordova, Emory University
- P695: MR thermometry for thermal therapy using frequency map
ChangKi Min, National Cancer Center
- P696: Computational MR Model for Characterizing Atherosclerotic Plaques Morphology and Composition
Michael Dada, Federal University of Technology, Minna, Nigeria
- P697: Development of an awake mouse MR imaging method using soft immobilization for a cryogenic probe system
Shunsuke Kusanagi, Kumamoto University
- P698: Method development of a 3D reconstruction of the murine aortic arch
Almut Glinzer, TU München, Technische Universität München
- P699: Computational Model for Comparative Analysis of MRI Contrast Agents
Michael Dada, Federal University of Technology, Minna, Nigeria
- P701: The novel and acute rupture-like thrombopoiesis processes from bone marrow megakaryocyte is regulated by IL-1alpha
Satoshi Nishimura, the Univ of Tokyo, Jichi Med Univ
- P702: Advancing Bioluminescence Imaging and Tomography towards a true quantitative imaging modality for reliable pre-clinical studies
Shelley Taylor, University of Birmingham, University of Birmingham
- P703: Near Infrared Fluorescent Image Based Evaluation of Gastric Tube Perfusion after Esophagectomy in Preclinical Model
Minji Kim, Korea University
- P704: A Modified Clinical Endoscope for Fluorescence-based Colonoscopies using Pathology-targeted Nanoplatforms
Jeffrey Souris, The University of Chicago
- P706: Improved spatial resolution in "paired-agent" quantitative imaging of cancer cell-surface receptors using early photon fluorescence tomography
Lagnojita Sinha, Illinois Institute of Technology, Illinois Institute of Technology
- P707: Segmental 360° Bioluminescent Imaging using the Mouse Imaging Spinner (MiSpinner) Shows Potential For Accurate Monitoring of Tumor Development
Andrew Brannen, Auburn University
- P708: Comparison of probe efficacy for Cherenkov excited luminescence imaging in tissue from linear accelerator radiation
Huiyun Lin, Dartmouth College, Fujian Normal University
- P709: Highly resolved fluorescence imaging using STED nanoscopy for visualizing conformational difference of mitochondria in skin cells and tissues
Hyung Jun Kim, Department of Chemistry, Seoul National University, Department of Nuclear Medicine, Cancer Research Institute, Seoul National University Hospital
- P710: Challenges and Opportunities for the Development of Imaging Technologies for Global Health
Tiffani Lash, National Institute of Biomedical Imaging and Bioengineering
- P711: Removing the Noise induced by High-energy Radiation in Optical Imaging using a Rank-ordered Mean Filter
Xu Cao, School of Life Science and Technology, Xidian University
- P712: Systems and Materials Development for Second Biological Window of Small Animal Fluorescence Imaging
Kohei Soga, Tokyo Univ. of Science
- P713: Ex-vivo light attenuation quantitation in the mouse brain: a comparison of three optical clearing techniques
Angela d'Esposito, UCL
- P714: A novel design of fluorescence-guided surgical navigation system
Ya Mao, Institute of Automation
- P715: Bioluminescence tomography based on the linearized Bregman iterative with Kicking
Chengcai Leng, Institute of Automation, Chinese Academy of Sciences
- P716: Three-dimensional bioluminescence imaging of gene expression during pupal stages of *Drosophila melanogaster* by using UAS-P. matsumurai Luc reporter line
Ryutaro Akiyoshi, Olympus corporation
- P717: Optical Projection Tomography (OPT) with Polarized Light
Mengjie Fang, Key Laboratory of Molecular Imaging, Chinese Academy of Sciences, Huazhong University of Science and Technology

Optical Imaging

- P700: Tissue Biodistribution of Plasmonic Nanoparticles with Sub-Cellular Resolution Using Hyperspectral Microscopy and Machine Learning
Orly Liba, Stanford University, Stanford University

Photo-Acoustic Imaging

- P718: Performance of a 2D vs. 3D Hand-Held Multispectral Photoacoustic Tomography (MSOT) System in a Melanoma Brain Metastasis Model
Volker Neuschmelting, Memorial Sloan Kettering Cancer Center

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P719: Photoacoustic Molecular Imaging Advancement by Unmixing and Non focused Ultrasound Sonoporation Method as improvement in tumoral treatment

Dieter Fuchs, Fujifilm VisualSonics

P720: Photoacoustic tomography for pre-operative assessment of cutaneous melanoma and other pigmented cutaneous lesions

Elizabeth Concannon, Galway University Hospital

P721: Transurethral photoacoustic endoscopy: making moves into the clinic

Liangzhong Xiang, University of Oklahoma

Preclinical PET/SPECT

P722: Multiscale photoacoustic microscopy for in vivo preclinical imaging

Xiaoquan Yang, Huazhong Univ. of Sci. & Tech.

P723: Ultra-high-resolution SPECT using variable pinhole collimator—a simulation study

Hakjae Lee, Korea University, Research Institute of Global Health Technologies at Korea University

P724: Prototype of an Awake Animal PET System

Andrew Weisenberger, Thomas Jefferson National Accelerator

P725: Planning lung radiotherapy incorporating motion freeze PET/CT imaging

Kuei-Ting Chou, China Medical University

P726: Two Level Multi-pin-hole Collimator for a Small Field of View Gamma Imaging System

Jaekeon Bae, Korea University

P727: Development of a multi-purpose low-profile γ -ray imaging detector

Young-Jun Jung, Korea University

P728: Quantification constraints for preclinical PET systems at high background radioactivity from therapeutic radionuclides

Emma Mellhammar, Oncology and Pathology

P729: Development of I-131 single gamma correction after I-131 labeled monoclonal antibody during F-18 FDG PET follow up

JIN SU kim, Korea Institute Radiological and Medical Sciences

P730: Evaluation of Standard Performance of PET/MRI Systems for Imaging Small Animals, and Development of Protocol for Fused Images

Jin Hwa Chung, Asan Institute for Life Sciences, Asan Medical Center, University of Ulsan College of Medicine

P731: Multi Radioisotope Calibration Study of the Bioscan BioPET pre-clinical PET/CT Scanner

Stephen Adler, National Cancer Institute

P732: Evaluation of Radioactivity Concentration Estimations with I-125 to Determine the Impact of Isotope Dependence on Accuracy between Dose Calibrator, Gamma Counter, and microSPECT

Joshua Kentala, MPI Research

P733: Improvements of Radiation Treatment Planning Using Interpolated Average CT Technology

Yu-Rou Chiou, China Medical University, Taiwan

Systems Biology

P734: Quantitative simultaneous acquisition of dual tracer using ^{99m}Tc and ^{123}I -labeled radiotracers in preclinical SPECT scanner with CZT detector

Asuka Mizutani, Kanazawa University

P735: Linking imaging to omics: Image-guided extraction of frozen tissue samples

Jonathan Disselhorst, Eberhard Karls University Tuebingen

P736: Novel segmentation of dynamic ^{18}F -FDG PET bypasses the need of arterial plasma input function, delivering a robust quantification of the tumor microenvironment

Prateek Katiyar, Werner Siemens Imaging Center, Eberhard Karls University Tübingen

P737: A Method to Visualize Phosphorus Transport in Plant-Fungal Interactions in Soil

Andrew Weisenberger, Thomas Jefferson National Accelerator Facility

P738: Improved radiation dosimetry for lung ventilation scintigraphy

Martin Andersson, Lund University

Ultrasound

P739: Quantitative assessment of angiogenic biomarkers with dynamic contrast-enhanced ultrasound imaging – A pilot study of human breast cancer

Kenneth Hoyt, University of Alabama at Birmingham

P740: Molecular ultrasound imaging using targeted contrast agents and signal quantification based on the law of mass action

Sithira Ratnayaka, University of Alabama at Birmingham

P741: Quantification in molecular ultrasound imaging using a modified local density random walk model

Kenneth Hoyt, University of Alabama at Birmingham

P742: Feasibility of Bubble liposomes as ultrasound contrast agent; in vivo animal study

Yusuke Oda, Teikyo University



EXHIBITING COMPANIES

ABX advanced biochemical compounds

Advion

Aspect Imaging

Best Cyclotron Systems, Inc

Biospace Lab

Bruker BioSpin Corp.

CheMatech

Chroma Technology

Comecer Group

CSMI

Curadel ResVet Imaging

Endra Life Sciences

FASMI

Goryo Chemical, Inc.

Hamamatsu Corporation

Imanis Life Sciences

invicro

ISMRM

iThera Medical GmbH

Lablogic Systems Limited

Leica Biosystems

LI-COR Biosciences

Magnetic Insight

Mauna Kea Technologies

Mediso

MILabs BV

Molecubes

MR Solutions

nanoPET Pharma GmbH

Patterson Scientific

PerkinElmer

PreXion Corporation

SA Instruments, Inc.

Sedecal

Sofie Biosciences, Inc.

Spectral Instruments Imaging

S-Sharp Corporation

UVP LLC

VisualSonics, Inc.

Zevacor Molecular

A - C

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Advion's NanoTek is a microfluidic flow-chemistry system that provides chemistry on demand with high yield, high purity microsynthesis of multiple PET compounds on one platform. It is a modular, flow-based microchemistry system that allows the user maximum flexibility when producing radio-labeled imaging agents for research and clinical applications.

Aspect Imaging

www.aspectimaging.com

Aspect Imaging is a world leader in the design and development of compact MR imaging and NMR systems for pre-clinical, medical and advanced industrial applications. In the pre-clinical research market, the M-series compact one-touch MRI systems enable a wide variety of in vivo applications and research models. The M-series systems are also used for providing 3D MR-based Histology to complement and direct pathology and histology-based analysis. In the medical market, Aspect Imaging has multiple medical programs underway including highly efficient compact MRI, such as the FDA-cleared Wrist MRI System. The company's permanent magnets are also used in advanced industrial applications.

Best Cyclotron Systems, Inc

www.bestcyclotron.com

TeamBest through Best Cyclotron Systems, Inc. (BCSI), offers radioisotopes and production capabilities for nuclear medicine and radiotherapy with its range of cyclotron systems. TeamBest offers 15 MeV, 25 MeV, 35 MeV, and 70 MeV cyclotron systems, allowing for tailoring to the specific needs of the end user. Our staff assists from the planning stage, detailed design, facility construction, daily production, maintenance, and emergency repair through the TeamBest network. We provide solutions for PET-CT and molecular imaging radiopharmaceuticals with the same excellent customized care as demonstrated in our 34-year history of radiotherapy support.

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Bruker BioSpin Corp.

www.preclinicalimaging.com

Offering the largest range of Preclinical Imaging systems, with an unmatched 9 in-vivo modalities, Bruker is committed to supporting the scientific community with high-end instruments dedicated to disease research, translational science and Molecular Imaging. Benefitting from more than 5 decades of passionate innovation, Bruker customers enjoy a vast portfolio of possibility; from a single source they have endless opportunities for combining multiple modalities for seamless workflow and higher productivity. Our non-invasive in-vivo imaging modalities are designed to deliver greater scientific insight based on animal-centric solutions.

CheMatech

www.chematech-mdt.com

CheMatech is a leading company specializing in the design and synthesis of bifunctional chelating agents such as DOTA, NOTA and NODAGA derivatives. These molecules are widely used as precursors of contrast agents for MRI as Gadolinium complexes. They are also used for peptides or antibodies labeling with $^{67/68}\text{Ga}$, ^{111}In , $^{64/67}\text{Cu}$. CheMatech offers a wide range of functionalized and protected chelating agents from milligrams to kilograms scale. CheMatech also realizes custom syntheses of new macrocyclic compounds. CheMatech has recently launched preclinical MRI probes such as Fe and Gd nanoparticles.

Chroma Technology

www.chroma.com

Chroma Technology designs and manufactures optical interference filters using advanced sputtering technologies. Our high performance filters are intended for imaging applications ranging from widefield and confocal fluorescence microscopy, TIRF and super-resolution techniques to flow cytometry, high content screening, multi-photon and Raman spectroscopy. Chroma also provides comprehensive technical and applications support.

Comecer Groupwww.comecer.com

Comecer is a world leader in protection technologies in the field of nuclear medicine, pharmaceutical isolation technology and nuclear power plant equipment. Comecer produces shielding systems and equipment for special applications, designed for large industrial groups and research organizations. We work for hospitals, universities and pharmaceutical companies on tailored projects for the production of isolators for the treatment of toxic substances to be kept in safety. For nuclear plant management, we produce equipment for the processing, deactivation and disposal of radioactive substances deriving from nuclear plants.

CSMIwww.3dmed.net

There are 205 members in the Chinese Society for Molecular Imaging, who come from institutes, universities, and hospitals. The research interests of the members include information technology, medicine, optics, chemistry, biology, and mathematics. There is 1 director, 25 deputy directors, 45 standing committee, 79 members, and 55 youth members. It is worth mentioning that there are 14 professors specialized in medicine from General Hospital of the People's Liberation Army, Peking Union Medical College Hospital, Xuanwu Hospital Capital Medical University, West China Hospital and so on. Therefore, a complete system of "Theory – Method – Technology – Platform – Equipment – Application" for basic research and application development of molecular imaging can be established, so the future clinical applications of molecular imaging technology can be better promoted.

Curadel ResVet Imagingwww.curadelresvetimaging.com

Curadel ResVet Imaging (CRV) is a manufacturer of devices and drugs, for the research and veterinary markets, in the field of near-infrared (NIR) fluorescence imaging. CRV's FLARE® (Fluorescence-Assisted Resection and Exploration for surgery) brand of imaging systems permits virtually any target to be identified and quantified using NIR fluorescent light. CRV's product line of FLARE® contrast agents spans the spectrum from state-of-the-art general purpose reagents for molecular labeling to highly-specific tissue- and tumor-specific reagents. CRV prides itself on manufacturing the highest quality devices and drugs, for continual improvement of its products, and for excellent customer service.

Endra Life Scienceswww.endrainc.com

Endra Life Sciences develops photoacoustic imaging systems that combine optical illumination with ultrasound to provide high spatial resolution at depth. Endra's Nexus 128 is the only fully 3-D photoacoustic computed tomography scanner designed for fast, non-invasive, quantitative imaging of small animals. The device generates multispectral, three dimensional images of optical absorption using endogenous and/or exogenous contrast. Researchers use the Nexus 128 for in vivo quantification of tumor vasculature, hemoglobin concentration, molecular probe uptake and distribution, and other physiological parameters for preclinical research.

FASMIwww.fasmi.org

Federation of Asian Societies for Molecular Imaging (FASMI) has been jointly suggested by the Presidents of the National Societies for Molecular Imaging of Japan, Korea, and Taiwan, during the inaugural meeting of the Japanese Society for Molecular Imaging, which took place in Kyoto, on May 23-34, 2006. The goals of the Federation are: - To promote molecular imaging in Asian countries and throughout the world. - To facilitate communications between researchers and clinicians working in the field of molecular imaging and related disciplines. - To stimulate and mediate collaborations between molecular imaging researchers and clinicians in Asian countries and throughout the world. - To provide the network infrastructure for multi-disciplinary education and collaborative research in molecular imaging

GORYO CHEMICAL, INC.www.goryochemical.com/english/

GORYO CHEMICAL, INC. provides novel fluorescent probes for cellular analysis, assay, and imaging in life science field. We have released over 150 unique fluorescent probes for in vitro assays as well as for in vivo imaging. At first, we recommend ProteoGREEN™-gGlu (gGlu-HMRG) fluorescent probe because it can detect only tumor in ex-vivo by green fluorescence. The second, AcidiFluor™ ORANGE has high S/N ratio on acidic state compared to other commercialized pH probes. In clinical trials, we are also developing new fluorescent probe that can detect cancer for fluorescent image guided surgery at pre-clinical and clinical trials in JAPAN. In near future, we will provide new method of fluorescent image guided surgery for patient.

Hamamatsu Corporationwww.hamamatsu.com**Imanis Life Sciences**www.imanislife.com

Imanis Life Sciences is a reporter gene imaging company providing reagents (lentivectors encoding reporter genes, antibodies, viruses) and contract research in the fields of oncology, gene, cell and virus therapies. A particular focus is the use of NIS (Na⁺/I⁻ symporter) and other radionuclide reporters which, compared to luminescence reporters, are much better suited for long-term, longitudinal 3-dimensional mapping of the target cell in living animals of any species. Imanis has an experienced team of scientists who provide advice on study design, logistics, off-the-shelf and customized lab reagents, image data analysis, and full service contract research. Your success is our mission.

inviCROwww.invicro.com

inviCRO is a dynamic life sciences company providing tissue-to-human services and software designed to advance the use of imaging in drug discovery and development research. By utilizing our contract imaging and data analysis services and tools, our customers can assess and visualize the value and efficacy of their new drug candidates across a wide range of therapeutic areas.

I - M

ISMRRM

www.ismrm.org

The International Society for Magnetic Resonance in Medicine (ISMRRM) is a nonprofit professional association dedicated to promoting communication, research, development and application of magnetic resonance techniques in medicine and biology. The ISMRRM is a community made up of clinicians, physicists, engineers, biochemists and technologists – professionals united by a common interest in the ongoing dialogue between the scientific and clinical communities. In addition to sponsoring an annual meeting and other major educational and scientific workshops, it publishes two journals. The ISMRRM 24th Annual Meeting & Exhibition will be held in Singapore 7-13 May 2016.

iThera Medical GmbH

www.ithera-medical.com

iThera Medical develops and markets biomedical imaging systems based on a novel technology called Multispectral Optoacoustic Tomography (MSOT). MSOT utilizes the photoacoustic effect to visualize and quantify anatomical, functional and molecular information, in vivo, in deep tissue and in real time. Today, MSOT allows the study of disease processes on a molecular level as well as the analysis of pharmacokinetic properties for new substances in small animals. For the future, MSOT also promises to become a valuable tool for clinical diagnostics

Lablogic Systems Limited

www.lablogic.com

LabLogic are a manufacturer of instruments and software to the Life Science, PET/Nuclear Medicine and Radiation Safety sectors. We have over 35 years' experience and expertise in providing solutions within highly regulated environments. Within PET and Nuclear Medicine, LabLogic have a range of market leading products which can be found in some of the world's most prestigious laboratories. Our products include a range of QC equipment including innovative r-TLC, r-HPLC instruments and a single point of control radiochromatography software package – Laura for PET. The complete QC package is also available from LabLogic, just ask about the QC solution. Furthermore Lablogic offer PETra, a purpose built PET LIMS system designed to improve efficiency and compliance. What's unique about PETra is that it directly captures data from all the equipment used. It acts as a central repository all information within PET production including batch record management, QMS, trending, inventory, instrument maintenance etc.

Leica Biosystems

www.leicabiosystems.com

Leica Biosystems is a global leader in anatomical pathology solutions and automation, striving to advance cancer diagnostics to improve patients' lives. Leica Biosystems provides pathologists, histologists and researchers a comprehensive range of products for each step in the pathology process. From specimen preparation and staining to imaging and reporting, our solutions help increase workflow efficiencies meaning patients receive their results sooner.

LI-COR Biosciences

www.licor.com

Looking for a simple, hassle-free bioluminescent small animal imaging system? The Pearl® Trilogy now has bioluminescence and is available for \$65,000 (USD). Stop by our booth or go to www.licor.com/pearl for more information. Need solutions for clinical translation research? IRDye® 800CW dye has been used successfully for image-guided surgery. IRDye 700DX is currently being used by Aspyrian Therapeutics and Aura Biosciences for photoimmunotherapy applications. For more information, stop by our booth or go to www.licor.com/CT.

Magnetic Insight

www.magneticinsight.com

Magnetic Insight is leading the development of solution driven Magnetic Particle Imaging (MPI) for preclinical imaging. MPI is a completely new, ultra-sensitive, high resolution and quantitative molecular imaging approach that longitudinally detects nanoparticles regardless of depth. MPI harnesses the flexibility of iron oxide nanoparticles to label cells, as targeted probes, or freely flowing through the vasculature. www.magneticinsight.com

Mauna Kea Technologies

www.maunakeatech.com

Mauna Kea Technologies provides a unique solution designed for In Vivo FLI imaging at cellular resolution. Cellvizio Dual Band system will complement your assays and bring you key information in a fast and easy way. It is the ultimate modality that any imaging lab now needs. MKT develops and markets Cellvizio, a probe-based Confocal Laser Endomicroscopy (pCLE) imager designed for preclinical and clinical indications. Cellvizio Dual Band now allows combined structural and functional information or molecular interactions between different species.

Mediso

www.mediso.com

Mediso has been working in the field of nuclear and molecular medicine since 1990 with a profile of development, manufacturing, sales and servicing of multi-modality in-vivo imaging systems. The company offers complete solutions from hardware design to evaluation and quantification software, both for clinical patient care and high-level life science research into all animal models in between rodents and primates. Besides the unique triple-modality clinical SPECT-CT-PET hybrid AnyScan® system, Mediso launched the world's first pre-clinical integrated PET-MRI and SPECT-MRI cameras as members of the nanoScan® high-end small animal imager family, consisting of SPECT, PET, CT and MRI modalities. Mediso runs successfully two complex clinical diagnostic, research and educational centres and offers clinical and evaluation software trainings for the international medical community

MILabs BVwww.milabs.com

MILabs provides high-end and hybrid molecular imaging systems (PET, SPECT, CT) for biomedical research. Today these MILabs systems, with proven quarter-mm SPECT and three-quarter mm PET resolution, contribute worldwide to the development of new diagnostic solutions and therapies for diseases such as diabetes, cancer, cardiac and neurodegenerative diseases. MILabs U-SPECT4CT provides researchers by far the fastest, most sensitive and highest resolution small-animal SPECT imaging currently available and comes with low dose ultra-high resolution integrated CT. The VECTor option for this system enables simultaneous and ultra-high resolution PET and SPECT. MILabs systems have in common that they are extremely reliable, versatile, and user friendly.

MOLECUBESwww.molecubes.com

MOLECUBES presents a modular benchtop preclinical imaging line. Three high-end imaging CUBES allow you to combine SPECT (Gamma-CUBE), PET (Beta-CUBE) and CT (X-CUBE) imaging in a time and space efficient way. The combination of patented pinhole design, additive manufacturing techniques and high-resolution detector technology ensures competitive performance for full body mice and rat imaging.

MR Solutionswww.mrsolutions.com

MR Solutions is the Worlds' leading developer of cryogen free, preclinical MR imaging systems at 3T, 4.7T AND 7T. The company also supplies PET & SPECT modular units to accessorise its system for simultaneous or in line imaging possibilities. MR Solutions' has over 30 years of imaging and magnet technology development behind it and can upgrade existing unsupported or failing magnets or convert Clinical systems for pre-clinical use. The company is also a key supplier of Spectrometers for clinical system operation to OEM's and research institutes worldwide.

nanoPET Pharma GmbHwww.nanopet-pharma.com

nanoPET is a biopharmaceutical company specialized on R&D and manufacturing of innovative drug substances for Diagnostic Imaging. Nanotechnology is a key element of our business. We focus on relevant cardiovascular, oncological and neurological indications as well as on regenerative medicine. Our company provides the first comprehensive portfolio of preclinical imaging agents, Viscover™ (www.viscover.com). All agents are adjusted to the requirements of research covering all relevant modalities. Additionally, nanoPET holds a patented core technology for use in human: Inorganic nanoparticle tracers for cell and molecular specific PET. We allocate customers our longstanding expertise within the scope of Consulting, Service and R&D projects, especially tailored to your needs.

Patterson Scientificwww.pattersonscientific.com

Patterson Scientific is the industry leader in the manufacture and sale of premier veterinary inhalant anesthesia systems and accessories. We base the development and manufacture of our products on proven technology and testing procedures. We are committed to educating and providing researchers and veterinarians worldwide with our high quality, safe, reliable, effective and user-friendly products for every research application.

PerkinElmerwww.perkinelmer.com

PerkinElmer is uniquely positioned to bring instruments, reagents and services to enable comprehensive imaging & detection solutions for your research. Our offering includes multiple modalities: Optical, microCT, and PET imaging. In addition to our flagship IVIS® imaging systems, learn about our new imaging platforms including: the G8 high sensitivity PET/CT scanner that fits on a benchtop, the Quantum GX combined high-speed, low-dose, and high-resolution microCT imaging system and Solaris™ open air fluorescence imaging system – an innovative system for fluorescence image-guided surgery designed for use with a broad spectral range of fluorescence probes.

PreXion Corporationwww.prexion.co.jp

We "PreXion Corporation" is specialized in medical imaging Research and Development Company in Japan. Since our company was founded in 2007 after spin off from TeraRecon Inc, we have been developing and distributing mainly Dental Cone Beam CT in US and other countries. With our excellent accumulated imaging technologies, we have succeeded in developing the world's first technology of Photoacoustic imaging system using NIR-LED light source. We will continuously develop new technologies to contribute to the human health in the world through company philosophy "Make IT Visible".

SA Instruments, Inc.www.i4sa.com

SA Instruments is the worldwide leader in preclinical monitoring and gating systems. Multi-parameter systems are compatible with MR/CT/PET/SPECT and Optical imaging modalities. Parameters include ECG (>900 BPM), temperature, respiration, pressure including blood pressure, oxygen saturation and end-tidal CO₂. Spare channels allow the user to acquire, record, display and gate from user generated analog signals. Waveform and trend data can be captured, stored and displayed. Air and fluid heating systems regulate animal temperature. A ventilator provides control of breathing for mice and larger animals. Multi-animal monitoring and gating systems are also available which can accommodate up to 20 animals simultaneously.

S - Z

Sedecal

www.sedecal.com

SEDECAL MOLECULAR IMAGING (SMI) with headquarters in Spain, is one of the oldest provider of Preclinical Molecular Imaging Devices with equipment all over the world in the most prestigious organizations. The company is part of SEDECAL GROUP, founded in 1994 with the investment in R&D as philosophy. The wide range of portfolio covers PET, CT, SPECT, PET/CT, SPECT/CT, PET/SPECT/CT and PET/MR systems. Our State of the art technology, PET in REAL TIME make us unique in the market. The PET in real Time will revolutionize the way of how the PET systems perform, being more accurate and faster.

Sofie Biosciences, Inc.

www.sofiebio.com

Sofie is combining new PET imaging agents with innovative imaging and synthesis systems to provide researchers and physicians with tools to better investigate the biology of disease. By empowering a wide array of people with valuable, translational imaging tools, Sofie is making PET scans more accessible and increasing the diversity of its applications.

Spectral Instruments Imaging

www.specimg.com

Spectral Instruments Imaging manufactures optical in vivo imaging instruments that offer the largest field of view on the market, enabling imaging of five or more mice or two rats at once. Our systems are capable of fluorescent and bioluminescent imaging and can all be configured with x-ray to expand their functionality. Our state of the art systems combine a -90°C CCD camera with spectrally discrete LEDs for excitation which limit "polluting" light for maximum sensitivity. With your choice of up to twenty emission filters our systems have the flexibility you need to satisfy all of your experimental needs all at a very affordable price.

S-Sharp Corporation

www.s-sharp.com

S-Sharp is dedicated to providing cutting edge solutions to preclinical and clinical research ultrasound. Our core competence is the ability to leverage rapid advancement of electronics technologies and powerful software computations into biomedical ultrasound and to address our customer's needs. Our preclinical ultrasound imaging product, Prospect, in an open platform designed to streamline the workflow and enhance the quality of small animal research. In addition, Prospect's unique imaging technologies, including shear wave elasticity measurements and Analog Doppler, assist users to perform high quality preclinical research that was not possible before. Our array ultrasound imaging product, Prodigy, shares the same core technologies and innovations. It is aimed to provide the highest research values to most people in need.

UVP LLC

www.uvp.com

UVP LLC, An Analytik Jena Company, manufactures iBox systems which are designed for fluorescence in vivo imaging in cancer research. iBox® Explorer™ Imaging Microscope enables macro to micro in vivo detection of fluorescence markers from whole animal to individual cells. Pre-clinical applications include tumor shedding, tumor angiogenesis, biodistribution monitoring, micro/macro metastases, hematogenous trafficking, tumor/host margins/interactions. iBox® Scientia™ Imaging System permits non-invasive, macro fluorescence in vivo detection and imaging of whole mice. Applications include tumor studies, heart disease, cancer research and metastasis. Analysis software provides tools such as multiplex image compositing, measurement of linear dimensions of tumor growth and volume of mouse tumors. UVP's gel/blot imaging systems include BioSpectrum® System (fully featured) and ChemiDoc-It@TS2 Imager (integrated computer/touch screen) for chemiluminescence Western blots (and Northern/Southern), fluorescence, multiplex and colorimetric imaging and quantitative analysis. Systems are available through world-wide dealer network.

VisualSonics, Inc.

www.visualsonics.com

The Vevo Imaging Systems by FUJIFILM VisualSonics empowers scientists with high resolution molecular imaging in in vivo models for research in cardiovascular, cancer, neurobiology and nanotechnology. Over 1000+ peer reviewed publications have demonstrated the strengths of VisualSonics' high-frequency micro-imaging and photoacoustic platforms. The Vevo Imaging Systems allow you to not only visualize cellular and molecular events but also quantify these events in 3D by fusing functional and molecular images to anatomical structures in real time. Learn more about FUJIFILM VisualSonics at www.visualsonics.com.

Zevacor Molecular

www.zevacor.com

Zevacor Molecular manufactures radiopharmaceuticals and radiochemicals for use in both clinical and pre-clinical settings. We have a network of PET Cyclotrons throughout the United States with our sister company IBA Molecular U.S. Our new manufacturing plant can produce a wide range of products through our 70 MeV Cyclotron.

MEDISO INDUSTRY WORKSHOP

Thursday, September 4, 2015

08:00-09:30

Room 311, Hawaii Convention Center

**High-end Solutions for Translational Imaging:
from SPECT/CT to PET/MRI**

Mediso is one of the World's largest manufacturers and suppliers of multimodality hybrid imaging devices. Behind the success is the constant technological innovation, which makes Mediso nanoScan® family the first-line choice for preclinical imaging. The wide range in portfolio includes the world's first integrated PET/MRI preclinical equipment, which has since been installed in four continents over the past four years. Combinations of SPECT/CT; PET/CT and the newest member SPECT/MRI Mediso can tailor the configuration to meet the requirements of advanced research institutes and start-up laboratories simultaneously, while maintaining the highest image quality standard on the market.

AGENDA

08:00 am **Welcome Breakfast and Introduction to the pre-clinical imaging portfolio**

08:30 am **nanoScan SPECT-CT at GRU Cancer Center: application overview**

Ali S Arbab, MD, PhD, Georgia Regents University, Augusta, GA, US

09:00 am **The PET/MRI strategy: Combination of functional and anatomical imaging in hepatocellular carcinoma (HCC)**

Eva J Koziolok, PhD, Charite Universitätsmedizin Berlin, Germany

09:30 am **Close**

PERKINELMER INDUSTRY WORKSHOP

Friday, September 4, 2015

08:00-9:30

Room 311, Hawaii Convention Center

**Seeing Disease in a New Light:
Multimodality Molecular Imaging for Translational Research**

PerkinElmer is a global leader in the development of instrumentation and imaging agents for preclinical small animal non-invasive optical, PET and microCT imaging. PerkinElmer's workshop will cover the latest innovative imaging technologies enabling the clearest path for researchers to impact the clinic.

In the two decades since the seminal publication from Stanford University showing that disease events can be tracked non-invasively in living hosts using bioluminescence, researchers have utilized a plethora of optical reporters (bioluminescent, fluorescent, chemiluminescent and Cherenkov) to gain further understanding of complex diseases and their therapeutic treatment. The complementarity of optical imaging with clinically translational imaging modalities, such as PET and microCT, has led to the development of multimodality imaging techniques enabling the researcher to co-register data from multiple imaging platforms. This session will highlight how optical imaging and 3D multimodality imaging can enable the preclinical researcher to gain insights into disease progression and drug response across a wide range of disease models.

AGENDA

8:00 am **Welcome Breakfast and Introduction**

8:15am **Role in Multimodality Imaging in emerging applications and Translational Disease Research.**

Kevin P. Francis, Ph.D., Fellow, PerkinElmer

8:45am **Impact of Non-invasive Optical Imaging on Research at Stanford, twenty years after its inception.**

Timothy C. Doyle, D.Phil., Director, Stanford Small Animal Imaging Service Center

9:30am **Close**

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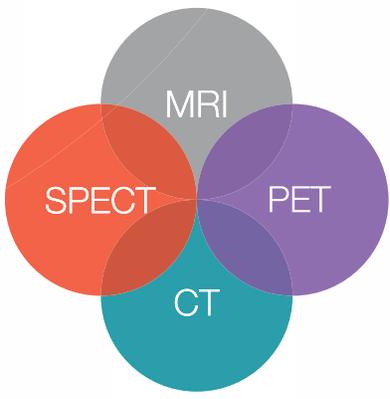
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