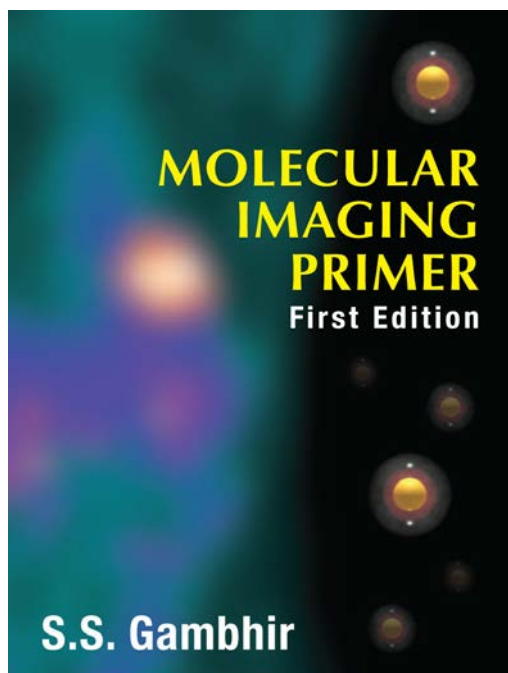


# Molecular Imaging Primer

S.S. Gambhir

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The [Molecular Imaging Primer](#) introduces clinicians and researchers to the expanding field of Molecular Imaging (MI) of living subjects. Students at all levels (e.g., undergraduates, graduates, medical students, residents, post-doctoral fellows, as well as research scientists) who are entering the field, or are already in the field but needing a booster shot, should find this book useful. Where past imaging was directed at the gross physical and anatomical levels, MI is shifting imaging to the molecular and cellular levels, opening up new pathways of discovery to expand MI applications in basic science research, and clinical diagnosis and treatment.

## TABLE OF CONTENTS

*Chapters:* 1. Molecular Imaging. 2. Basic Cell & Molecular Biology. 3. Overview of Imaging Modalities. 4. Molecular Imaging Strategies. 5. Assays. 6. Nanoparticle Imaging. 7. Clinical Applications. 8. Future of Molecular Imaging. 9. Molecular Imaging Examples. 10. Frequently Asked Questions. 11. Useful Tables. 12. Probe Structures Table.

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## ABOUT THE AUTHOR

[Dr. Gambhir](#) is the Chair of [Radiology](#), and Director of the [Molecular Imaging Program](#) at Stanford University. He is also Head of the [Canary Center at Stanford for Cancer Early Detection](#), and has been a leader and innovator in the field of molecular imaging for nearly 20 years.