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## Frontiers in Heart Failure Volume 2: Molecular Imaging and Related Topics

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### About the eBook

This volume of Frontiers in Heart Failure comprehensively covers the gap between clinical management of heart failure and advanced molecular imaging techniques (SPECT, PET, MRI etc.). These techniques provide valuable evidence to cardiologists for the evaluation and follow-up of heart failure patients. It brings forth established research data regarding the pathophysiology, clinical presentations and therapy of heart failure, in a balance between clinical items and molecular imaging modalities. Readers will also find additional chapters on hybrid cardiovascular imaging techniques as well as guidelines on imaging artifacts and radiation protection. This volume is a useful resource for radiologists, cardiologists, cardiac care nurses and medical physicists.

### Contents

- Computed Tomography in Heart Failure
- Magnetic Resonance Imaging in Heart Failure
- Myocardial Perfusion (SPECT) Imaging: Radiotracers and Techniques
- Radionuclide Assessment of Cardiac Function and Modeling: The Clinical Application of Gated- SPECT
- Evaluation of Heart Failure Patients Using PET Perfusion Imaging: Radiotracers and Techniques
- Hybrid Imaging (SPECT/ CT, PET/CT, PET/MR)
- Assessment of Myocardial Viability Using SPECT and PET Techniques
- Radioisotopic vs Non-Radioisotopic Methods for Myocardial Viability Identification
- Clinical Value of Cardiac Neurotransmission SPECT Imaging in Heart Failure Patients
- Applications of PET Cardiac Neurotransmission Imaging in Heart Failure
- Imaging of Radiolabelled Fatty Acid Metabolism
- Molecular Imaging of Apoptosis and Atheromatous Plaques: Current and Future Applications in Heart Failure
- Molecular Imaging Techniques of Gene and Cell Heart Failure Therapies: State of the Art and Future Perspectives
- Artifacts and Pitfalls in Cardiac Molecular Imaging
- Basics of Radiation Protection in Cardiac Imaging Studies
- Technical Advances in Hybrid Cardiac Imaging: Potential Applications in Heart Failure

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