

# **Cardiovascular Research**

**New Technologies,  
Methods, and  
Applications**



**Edited by  
Gerard Pasterkamp  
Dominique P.V. de Kleijn**

# Cardiovascular Research New Technologies Methods And Applications

**Vijai Singh,Ajay Kumar**



## **Cardiovascular Research New Technologies Methods And Applications:**

**Cardiovascular Research** Gerard Pasterkamp, Dominique de Kleijn, 2007-06-10 In the last decade technical improvements have changed the inventory of many research laboratories New techniques and discoveries continuously give rise to observations that result in the definition of new research objectives In the past search departments were clearly demarcated Nowadays technology that is shared by all lines of research stimulates convergence of research interests This also plies to cardiovascular research Vascular occlusive disease is now core business for researchers employed by cardiology vascular surgery vascular medicine diology cell biology chemistry physiology and many other areas Knowledge on actual research development is shared by researchers with different skills It is sometimes difficult to acquire expertise when a researcher feels his experimental work could be improved by introducing a new research technique In this book the investigator will find an overview of recent developments that are relevant for research in general but cardiovascular research in particular Genomics proteomics microarray RNAi stem cells and progenitor cells are just some phrases that have become increasingly prevalent in literature in the last few years and that are recognized by many but are fully understood by few In this book experts share the most appreciated new developments and techniques in cardiovascular research We hope that this book will help the reader who is working in the field of cardiovascular research to understand and critically appreciate current research and that it will help improve the quality of experimental work Dr G Advances in Bioinformatics Vijai Singh, Ajay Kumar, 2024-02-05 The second edition of Advances in Bioinformatics presents the latest developments in bioinformatics in gene discovery genome analysis genomics transcriptomics proteomics metabolomics metabolic flux analysis drug discovery and drug repurposing It includes advancements in the applications of bioinformatics in the analysis of non coding RNA next generation sequencing genome scale modelling high throughput drug screening precision medicine automation and artificial intelligence and machine learning The chapter also summarizes the technologies and concepts that form the basis of this functional genomics approach Additionally the book highlights some of the areas in which bioinformatics resources and methods are being developed to support the drug discovery pipeline The chapter also discusses the role of bioinformatics in modelling and simulations of molecular biology systems in pathways identification and design It is a valuable source of information for beginners in bioinformatics and students researchers scientists clinicians practitioners policymakers and stakeholders who are interested in harnessing the potential of bioinformatics in biomedical and allied sciences Cutting Edge Methodologies in Experimental Cardiovascular Research Gabriela Kania, Przemyslaw Blyszczuk, Kenneth Boheler, 2021-02-02 **Clinical Nuclear Cardiology: State of the Art and Future Directions E-Book** Barry L. Zaret, George A. Beller, 2010-04-13 Clinical Nuclear Cardiology now in its fourth edition covers the tremendous clinical growth in this field focusing on new instrumentation and techniques Drs Barry L Zaret and George A Beller address the latest developments in technology radiopharmaceuticals molecular imaging and perfusion imaging Thoroughly revised to include

20 new chapters Digital Fast SPECT Imaging in Revascularized Patients and more this new edition provides state of the art guidance on key areas and hot topics with stunning visuals Online access to the fully searchable text at expertconsult.com includes highly illustrated case studies that let you see the problem using a variety of imaging modalities In other words this is an invaluable resource no clinician or researcher in nuclear cardiology should be without Features an editorial and contributing team of worldwide leaders in nuclear cardiology to provide you with current and authoritative guidance Includes a section focusing on acute coronary syndromes to provide you with practical management tools for these conditions Presents a full color design that allows color images to be integrated throughout the text Includes access to the fully searchable contents of the book online at expertconsult.com along with highly illustrated case studies that let you see the problem using a variety of imaging modalities Features 20 new chapters including Cellular Mechanisms of Tracer Uptake and Clearance Attenuation Scatter Corrections Clinical Aspects Hybrid Imaging Digital Fast SPECT Imaging in Revascularized Patients and more Focuses on perfusion imaging in a section dedicated to this hot topic so you get all the information you need to stay current

**Principles of Molecular Cardiology** Marschall S. Runge, Cam Patterson, 2007-11-14 An easy to read survey of all the latest developments in molecular cardiologic research and therapy The authors explain in a readable style the complex process of the heart's development the molecular basis of cardiovascular diseases and the translation of these research advances to actual clinical treatments The expert information provided here serves as an invaluable building block for novel treatments of cardiovascular diseases and includes a comprehensive discussion of cardiac function and dysfunction coronary artery disease cardiac arrhythmias vascular diseases and risk factors for cardiovascular disease These state of the art approaches to molecular cardiologic research include critical discussion of such topics as the molecular events that regulate angiogenesis and the potential for angiogenic therapy emerging therapies for arrhythmias and a description of the molecular biology of aging and its impact on the cardiovascular system

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