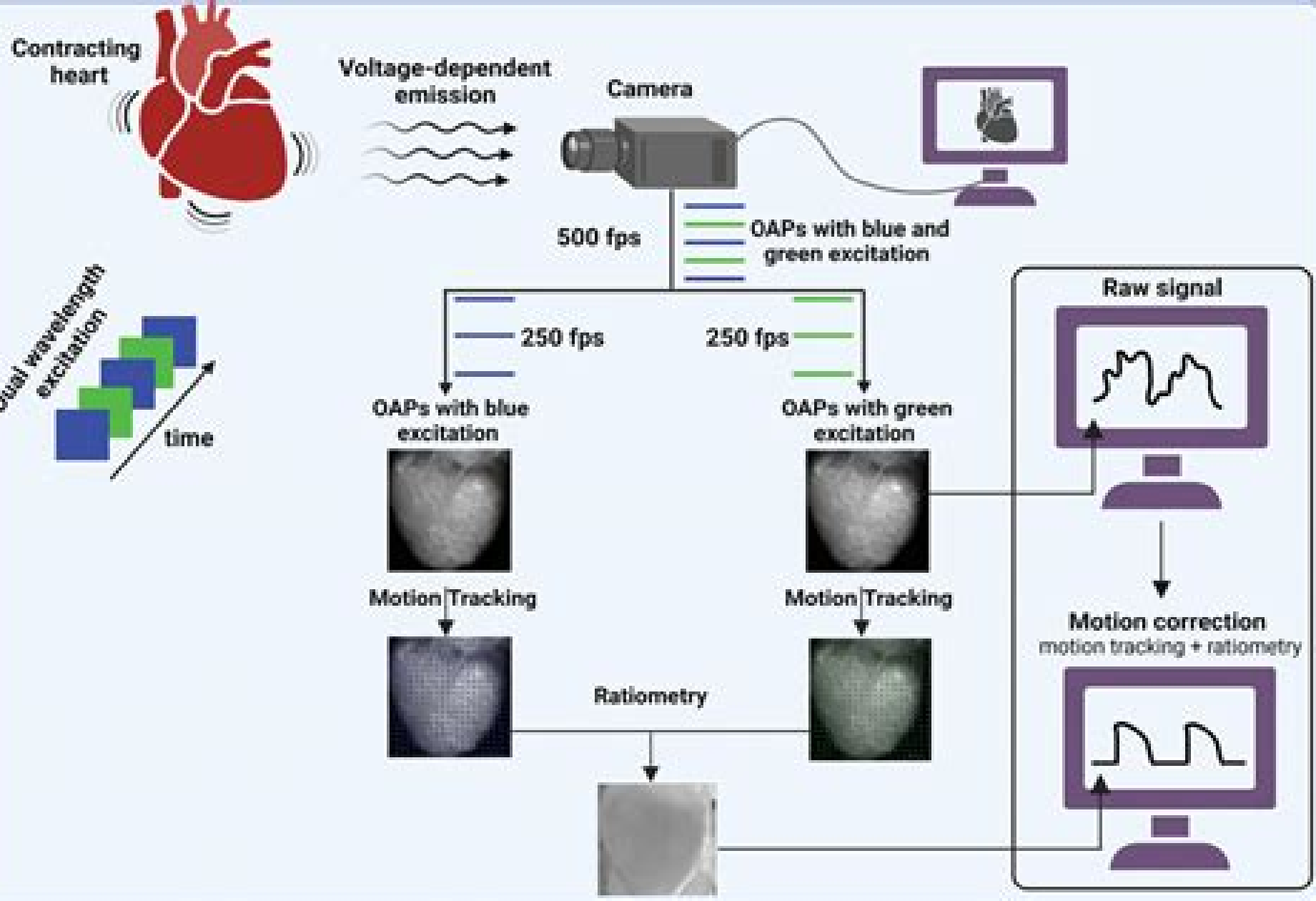




Contracting Hearts

J. L. Mackie



Contracting Hearts:

Mechano-Calcium, Mechano-Electric, and Mechano-Metabolic Feedback Loops: Contribution to the Myocardium Contraction in Health and Diseases Leonid Katsnelson, Gentaro Iribe, Remi Peyronnet, Olga Solovyova, 2021-06-01

Simulating Normal and Arrhythmic Dynamics: From Sub-Cellular to Tissue and Organ Level Hans Dierckx, Flavio H. Fenton, Simonetta Filippi, Alain Pumir, S. Sridhar, 2019-10-04 **The National Heart, Lung, and Blood Institute's Research Contracting Program** National Heart, Lung, and Blood Institute. Contract Operations Branch, 1977

Myofibrillogenesis Dipak K. Dube, 2012-12-06 Myofibrillogenesis has been studied extensively over the last 100 years. Until recently we have not had a comprehensive understanding of this fundamental process. The emergence of new technologies in molecular and cellular biology combined with classical embryology have started to unravel some of the complexities of myofibril assembly in striated muscles. In striated muscles the contractile proteins are arranged in a highly ordered three dimensional lattice known as the sarcomere. The assembly of a myofibril involves the precise ordering of several proteins into a linear array of sarcomeres. Multiple isoforms in many of these proteins further complicate the process making it difficult to define the precise role of each component. This volume has been compiled as a comprehensive reference on myofibrillogenesis. In addition the book includes reviews on myofibrillar disarray under various pathological conditions such as familial hypertrophic cardiomyopathy (FHC) and incorporates a section on the conduction system in the heart. Much of the information in this volume has not been described elsewhere. Presented in a manner to be of value to students and teachers alike. Myofibrillogenesis will be an invaluable reference source for all in the fields of muscle biology and heart development. **Heart Research News**, 1963 **Subject Index of Current Research Grants and Contracts**

Administered by the National Heart, Lung and Blood Institute National Heart, Lung, and Blood Institute, 1975

Immunomodulatory Biomaterials Weiwei Wang, Zujian Feng, Pingsheng Huang, 2025-06-13 The ability to modulate the body's immune system can greatly assist the treatment of diseases and repair of injured tissues. Immunomodulatory biomaterials can promote adaptive immunity without the need for drugs, cytokines, or cell therapies. Their design can be targeted towards specific applications including cancer and inflammatory disease. Exploring the latest research, the authors present their philosophy for the design of immunomodulatory biomaterials and aim to close the gap between materials scientists, engineers, and biologists. The book includes an overview of the immune system, the immune response, biomaterials may create, and various design strategies across a range of biomedical contexts. The book concludes with an outlook on the future of this topic and how it will translate to the clinic. **Cardiac Mapping** Mohammad Shenasa, Gerhard Hindricks, Martin Borggrefe, Gunter Breithardt, Mark E. Josephson, 2012-10-17 Cardiac Mapping is the cardiac electrophysiologist's GPS. It will guide you to new places in the heart and help you find the old places more easily, a valuable addition to your bookshelf. Douglas P. Zipes from the Foreword: Over the course of three previous editions, this book has

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Artificial Heart Program Conference; National Heart Institute, Artificial Heart Program... Proceedings, Washington, D.C., June 9-13, 1969 National Heart Institute (U.S.),1969 **Dublin quarterly journal of medical science** ,1852 **The Dublin Quarterly Journal of Medical Science** ,1852 **The Dublin Journal of Medical Science** ,1852 Zipes and Jalife's Cardiac Electrophysiology: From Cell to Bedside, E-Book Jose Jalife,William Gregory Stevenson,2021-12-16 Fully updated from cover to cover Zipes and Jalife s Cardiac Electrophysiology From Cell to Bedside 8th Edition provides the comprehensive multidisciplinary coverage you need from new knowledge in basic science to the latest clinical advances in the field Drs Jos Jalife and William Gregory Stevenson lead a team of global experts who provide cutting edge content and step by step instructions for all aspects of cardiac electrophysiology Packs each chapter with the latest information necessary for optimal basic research as well as patient care Covers new technologies such as CRISPR protein research improved cardiac imaging optical mapping and wearable devices Contains significant updates in the areas of molecular biology and genetics iPSCs induced pluripotent stem cells embryonic stem cells precision medicine antiarrhythmic drug therapy cardiac mapping with advanced techniques and ablation technologies including stereotactic radioablation Includes 47 new chapters covering both basic science and clinical topics Discusses extensive recent progress in the understanding diagnosis and management of arrhythmias including new clinical insights on atrial fibrillation and stroke prevention new advances in the understanding of ventricular arrhythmias in genetic disease and advances in implantable devises and infection management Features 1 600 high quality photographs anatomic and radiographic images electrocardiograms tables algorithms and more with additional figures tables and videos online Recipient of a 2018 Highly Commended award from the British Medical Association Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices *The Thorax: Applied physiology* Charis Roussos,1995 This book provides a comprehensive authoritative and contemporary discussion of the physiology and pathophysiology of the chest wall as well as an overview of the diagnostic and therapeutic modalities It is an invaluable aid to clinical investigators *The*

Thorax, ---Part B Charis Roussos,Theodoros Vassilakopoulos,2018-04-20 This timely Second Edition of a landmark reference furnishes in depth examinations of the latest developments in the physiology pathophysiology and clinical relevance of the respiratory muscles and chest wall reflecting the explosion of information that has occurred since the publication of the previous edition

The Cement of the Universe J. L. Mackie,1980-09-18 Studies causation both as a concept and as it is in the objects Offers new accounts of the logic of singular causal statements the form of causal regularities the detection of causal relationships the asymmetry of cause and effect and necessary connection and it relates causation to functional and statistical laws and to teleology

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Vaillant,Chris Jopling,Yoram Etzion,Bianca J. J. M. Brundel,Jolanda Van Der Velden,Flavien Charpentier,2023-10-05

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Regulation of Cardiac Function Hiroshi Abe,1984-12 This book gives a consensus of views and research trends in the regulation of cardiac function and metabolism Emphasis is given to the elucidation of fundamental concepts and principles of clinically relevant issues The aim is that the clinician should be able to approach a particular aspect of any given problem logically thereby gaining insights into the fundamental pathophysiological mechanism underlying diseases states Regulation of Cardiac Function is organized within six principle areas from the molecular and cellular aspects to more clinically applied problems of heart disease This book gives pertinent guidelines and summarizes knowledge on basic research relevant to cardiac function and metabolism in health and disease

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- Chapter 1: Introduction to Contracting Hearts
- Chapter 2: Essential Elements of Contracting Hearts
- Chapter 3: Contracting Hearts in Everyday Life
- Chapter 4: Contracting Hearts in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Contracting Hearts. The first chapter will explore what Contracting Hearts is, why Contracting Hearts is vital, and how to effectively learn about Contracting Hearts.
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6. In chapter 5, this book will draw a conclusion about Contracting Hearts. This chapter will summarize the key points that have been discussed throughout the book.

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