

Mechanosensitivity Of The Heart

[DOWNLOAD HERE](#)

Foreword by Vadim Fedorov; Editorial, Andre Kamkin and Irina Kiseleva; List of Contributors; Part I: Molecular Mechanisms of Mechanotransduction in Cardiac Cells - 1 Titin and Titin-associated Proteins in Myocardial Stress-sensing and Mechanical Dysfunction, Wolfgang A. Linke; 2 Mechanical Stretch-Induced Reorganization of the Cytoskeleton and the Small GTPase Rac-1 in Cardiac Fibroblasts, Wayne Carver and John W. Fuseler; 3 Molecular Signaling Mechanisms of Myocardial Stretch: Implications for Heart Disease, Hind Lal, Suresh K. Verma, Honey B. Golden, Donald M. Foster, April M. Holt and David E. Dostal; 4 Mechanical Stress Induces Cardiomyocyte Hypertrophy through Agonist-independent Activation of Angiotensin II Type 1 Receptor, Hiroshi Akazawa and Issei Komuro; Part II: Mechanically Induced Potentials and Currents of the Cardiac Cells in Healthy and Diseased Myocardium - 5. Mechanotransduction in Cardiac and Stem-Cell Derived Cardiac Cells, Jeffrey G. Jacot, Anna J. Raskin, Jeffrey H. Omens, Andrew D. McCulloch and Leslie Tung; 6 Stretch-activated Channels in the Heart: Contribution to Cardiac Performance, Marie-Louise Ward and David G. Allen; 7 Effects of Applied Stretch on Native and Recombinant Cardiac Na⁺ Currents, Umberto Banderali, Robert B. Clark, Catherine E. Morris, Martin Fink and Wayne R. Giles; 8 Mechanosensitive alterations of action potentials and membrane currents in healthy and diseased cardiomyocytes: Cardiac tissue and isolated cell, Ilia Lozinsky and Andre Kamkin; 9 The Role of Mechanosensitive Fibroblasts in the Heart: Evidence from Acutely Isolated Single Cells, Cultured Cells and from Intracellular Microelectrode Recordings on Multicellular Preparations from Healthy and Diseased Cardiac Tissue, Andre Kamkin, Irina Kiseleva and Ilia Lozinsky; 10 Scanning Ion Conductance Microscopy for Imaging and Mechanosensitive Activation of Selected Areas of live cells, Max J Lab; Part III: Mechanoelectrical Feedback in the Whole Heart and A Computer Simulation Study - 11 The contribution of MEF to electrical heterogeneity and arrhythmogenesis, David A Saint, Douglas Kelly and Lorraine Mackenzie; 12 Mechanical modulation of a reentrant arrhythmia: the atrial flutter case, Flavia Ravelli and Michela Mase; 13 Early hypertrophic signals after myocardial stretch. Role of reactive oxygen species and the sodium/hydrogen exchanger, Horacio E Cingolani et al.; 14 Stretch-induced inotropy in atrial and ventricular myocardium, Dirk von

Lewinski, Jens Kockskemper, Mounir Khafaga, Robert Gasser, Burkert Pieske; 15 Effects of Wall Stress on the Dynamics of Ventricular Fibrillation. A computer simulation study of mechanoelectric feedback, Satoko Hirabayashi, Masashi Inagaki, Toshiaki Hisada, Masaru Sugimachi; 16 Electromechanical modelling of cardiac tissue, Christian Cherubini, Simonetta Filippi, Paola Nardinocchi, Luciano Teresi; 17 Specific mechanotransduction signaling involved in myogenic responses of the cerebral arteries, Koichi Nakayama, Kazuo Obara, Tomohisa Ishikawa, Shigeru Nishizawa; Index EAN/ISBN : 9789048128501
Publisher(s): Springer Netherlands Discussed keywords: Herz (Anatomie) Format: ePub/PDF Author(s): Kamkin, Andre - Kiseleva, Irina

[DOWNLOAD HERE](#)

Similar manuals:

[Mechanosensitivity Of The Heart](#)