
Biophysical Aspects Cardiac Muscle Proceedings Symposium

the role of myocardial gap junctions in electrical ... - the role of myocardial gap junctions in electrical conduction and arrhythmogenesis shigeto kannoa,1, ... biophysical properties of gap junction channels are important determinants of the conduction properties of cardiac muscle. gap junction ... aspects of the structure and function of gap junction **curriculum vitae martin morad - cbasc** - 1996-1999 president, cardiac muscle society . 1993-95 secretary, treasurer, cardiac muscle society ... biophysical society . society of general physiology . international society for heart research "biophysical aspects of cardiac muscle," shiraz, iran, may 14-16, 1977 . **biophysical regulation during cardiac development and ...** - we first discuss biophysical regulation during cardiac development and the factors of interest for application in tissue engineering of the myocardium. then we focus on the biomimetic approach to cardiac tissue engineering which involves the use of culture systems designed to recapitulate some aspects of the actual in vivo environment. **defibrillation in models of cardiac muscle - researchgate** - defibrillation in models of cardiac muscle ... here i consider mathematical aspects of defib- ... empirical biophysical excitation equations derived **measurement of cardiac troponins - journalsgepub** - influences the analytical aspects of the currently ... are found in cardiac muscle, fast twitch muscle and slow twitch muscle, respectively, and are ~ncoded by individual genes. there is only one ... biophysical measurements suggest that ctni has an extended conformation when complexed with ctnc. figure 2 shows the amino acid sequence **myofilament acetylation and cardiac muscle contraction** - aspects: recruitment (relationship between the number of cross- ... the exact biophysical mechanisms of cardiac ... mechanisms of cardiac muscle contraction is important in improving heart failure treatments because if we know how the force production could be affected we can determine a better **modeling the actinomyosin cross-bridge cycle for ...** - cycle for skeletal and cardiac muscle ... 2017 biophysical society. compare it with the closely related faster isoforms, i.e., the ... different aspects of muscle contraction from the molecular interaction of individual proteins through to the contracting muscle fiber. here, the atpase cycle is modeled as a first **review article poorly understood aspects of striated ...** - poorly understood aspects of striated muscle contraction ... , sweden department of kinesiology and physical education, mcgill university, montreal, qc, canada ha t institute for biophysical chemistry, medizinische hochschule hannover, hannover, germany ... a cardiac muscle contracting against closed valves. further, **the heart by numbers - biophysics** - biophysical models of the fibrillating atria: fibrosis and electrophysiological considerations ... allosteric aspects of ryanodine receptor gating david j. christini, cornell university, usa * ... myosin off-state can contribute to length-dependent activation in cardiac muscle 10:30 - 10:50 lorenzo marcucci, university of padova, italy * ... **bioreactors as engineering support to treat cardiac muscle ...** - bioreactors as engineering support to treat cardiac muscle and vascular disease diana massai, phd*; giulia cerino, ms*; diego gallo, phd; francesco ... with emphasis on bioreactors and biophysical stimuli adopted for ... contractility as well as mechanical and electrical properties of native heart muscle, leading to ventricle wall remodeling ... **place of birth education - ucla** - 3 . 8) bezanilla, f., and vergara, j. fluorescence signals from frog skeletal muscle fibers. in: biophysical aspects of cardiac muscle. m. morad, ed., academic press ... **review cardiac tissue engineering** - tain aspects of the environment present in vivo during normal development, ... bioreactor. together, the scaffold and bioreactor provide biophysical regulation of the cell environment. cardiac muscle is unique in many respects, and represents a major challenge to ... contraction of the cardiac muscle is driven by the waves of electrical excitation- **biophysical and biomolecular determination of cellular age ...** - biophysical and biomolecular determination of cellular age in humans jude m. phillip1,2,3, ... ditions that result in phenotypes that show aspects of premature ageing. our findings suggest that the quantification of cellular ... such as changes in muscle physiology and cardiac function. paradoxically, changes at the intermediate length ... **review role of wavefront curvature in propagation of ...** - cardiac muscle defined by the tissue micro-architecture, ... from the biophysical point of view, cardiac tissue belongs to the class of so-called 'reaction- ... as an action potential, propagates through a medium due to the release of stored biochemical energy. it shares important aspects of its biophysical behavior with a variety of other

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