
Understanding Calcium Dynamics Experiments And Theory

calcium dynamics: analyzing the ca regulatory network in ... - calcium dynamics: analyzing the ca^{2+} regulatory network in intact cells david d. friel¹ and hillel j. chiel² ¹department of neurosciences, case western reserve university, 10900 euclid avenue, cleveland, oh 44106-4975, usa ²department of biology, case western reserve university, 10900 euclid avenue, cleveland, oh 44106-4975, usa calcium signaling is critical for all cells. **functional connectivity structure of cortical calcium ...** - connectivity and delay topographies in spontaneous cortical calcium transients. in this paper, we report concurrent imaging of hemoglobin and *gcamp6* dynamics in a *thy1/gcamp6* trans-genic mouse model [17]. an optical imaging system and algorithms were developed to image wide-field calcium and hemoglobin dynamics concurrently over three decades of ... **calcium dynamics - sc.fsu** - calcium dynamics calcium dynamics: why we care new experimental approaches that enable the study of astrocyte physiology at higher spatiotemporal resolution in intact brain preparations are beginning to reveal an unexpected level of compartmentalization and sophistication in astrocytic ca^{2+} dynamics. this newly revealed complexity needs to be ... **linearized models of calcium dynamics: formal equivalence ...** - linearized models of calcium dynamics: formal equivalence to the cable equation anthony zador^{1,a} and christof koch² ¹neuroscience program, yale university school of medicine, new haven, connecticut 06520 and ²computation and neural systems program, california institute of technology, pasadena, california 91125 **impact of spatiotemporal calcium dynamics within ...** - sity of voltage-gated calcium channels (vgccs) as well as the concentration of calcium buffering proteins can play a large role in the timing, magnitude, and plasticity of release by shaping the ca^{2+} profile. however, a high-resolution understanding of the role of ca^{2+} structure in spatiotemporal calcium dynamics and how it may **calcium sparks in the heart: dynamics and regulation** - spark dynamics has proven to be a useful tool to understand ca^{2+} spark dynamics. this review this review addresses our current understanding of ca^{2+} sparks and how synchronized $sr\ ca^{2+}$ release, **linearized models of calcium dynamics: formal equivalence ...** - our intuitive understanding of calcium dynamics by drawing upon experience from electrical cable theory. materials and methods we simulated two nonlinear models of calcium dynamics to illustrate the validity of the linearization. the two models differed primarily in geometry. the first was an infinite cylinder of radius $a = 0.5\ \mu m$. the **complex rria calcium dynamics and its function in ...** - complex calcium dynamics in the rria interneuron, which has been implicated in several navigational behaviors in *c. elegans*. here, we review our findings on the compartmentalized and global calcium events in rria and propose functional consequence as well as potential regulatory mechanisms of these intriguing calcium signals. introduction **spontaneous calcium release in cardiac myocytes: store ...** - spontaneous calcium release in cardiac myocytes: store overload and electrical dynamics authors amanda m. alexander, erin k. denardo, eric frazier iii, michael mccauley, nicholas rojina, zana **principles of invasive hemodynamics - rn** - calcium, increases potassium o_2 & co_2 hypoxemia, acidosis, hypercapnia myocardial infarction/cardiomyopathy "stunned" heart, scar tissue, hypertrophied muscle hr & rhythm increased hr sustained tachycardia leads to decompensation autonomic nervous system sympathetic stimulation parasympathetic stimulation **calcium dynamics: spatio temporal organization from the ...** - to the intercellular calcium wave spreading through an entire organ. a detailed understanding of calcium dynamics thus requires a link between observations at different scales. it appears that some regulations such as calcium-induced calcium release or plc activation by calcium, as well as the weak diffusibility of calcium **ion electrodiffusion for calcium dynamics in myocytes** - abstract intracellular ca^{2+} dynamics is a field of basic research in biology since calcium signaling determines the functional behaviour of the principal cells in the body, including those of the nervous system and of the heart. **time-scales in the interplay between calcium and voltage ...** - dynamics [9] are the two main results of these studies. in spite of several modelling efforts, the role of calcium dynamics in shaping membrane potential dynamics is still largely unknown. to further our understanding of the interplay between calcium and voltage dynamics, we have performed a statistical analysis of 50–100s long recordings **gpu-enabled spatiotemporal model: stochastic cardiac ca^{2+} ...** - understanding ca^{2+} -dependent cardiac arrhythmias • as cardiac myocyte calcium dynamics are essential for the contraction of the heart, the dysfunction of normal calcium dynamics is often a major factor in cardiac arrhythmias. • computational models are an essential tool to understand the **dynamics and calcium association to the n-terminal ...** - simulations of tnc structure and dynamics in various states of calcium and tni switch peptide association are necessary for understanding the binding processes involved. as elucidation of the dynamics of the tnc regulatory domain in response to calcium binding is integral for estimating ca^{2+} affinity, this work

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