

Ion Channels: Methods and Protocols, Springer Science & Business Media, 2006, 212 pages, James D. Stockand, Mark S. Shapiro, 2006, 9781597450959

15. Ion Channels As Tools to Monitor Lipid Bilayer-Membrane Protein Interactions: Gramicidin Channels As Molecular Force O. S. Andersen, C. Nielsen, A. M. Maer, J. A. Lundbäck, M. Goulian, and R. E. Koeppe I. PART VII. Purification and Reconstitution 16. As part of the Reliable Lab Solutions series, Essential Ion Channel Methods brings together chapters from volumes 293 and 294 of Methods in Enzymology. The chapters have been selected by the editor and updated, when possible, by their original authors to include new research and references. The result is a set of chapters which make use of graphics, comparisons to other methods, and provide tricks and approaches that make it possible to adapt methods to other systems. Buy Ion Channels (9781588295767): Methods and Protocols: NHBS - Edited By: James Stockand and Mark Shapiro, Humana Press. Part I. Methods for Exogenous Expression of Ion Channels in Cells Functional Reconstitution of the Human Epithelial Na⁺ Channel in a Mammalian Expression System Alexander Staruschenko, Rachell E. Booth, Oleh Pochynyuk, James D. Stockand, and Qiusheng Tong Overexpression of Proteins in Neurons Using Replication-Deficient Virus Richard M. Ahlquist and Jane M. Sullivan Exogenous Expression of Proteins in Neurons Using the Biolistic Particle. Methods for Studying Channel Regulation and Physiological Function 7 Probing the Effects of Phosphoinositides on Ion Channels Chou-Long Huang . 81. ix. Figure 3A shows a representative voltage ramp protocol. Macroscopic currents are filtered at 1000 Hz, digitized at 2 kHz, and elicited/ recorded in episodic fashion using the clampex program to drive the patch clamp amplifier (pClamp software). Macroscopic current through ENaCs is identified by adding amiloride (10 μ M) to the extracellular bath solution.