

Calcium Entry Channels in Non-Excitable Cells

Calcium Entry Channels in Non-Excitable Cells focuses on methods of investigating the structure and function of non-voltage gated calcium channels. Each chapter presents important discoveries in calcium entry pathways, specifically dealing with the molecular identification of store-operated calcium channels which were reviewed by earlier volumes in the *Methods in Signal Transduction* series. Crystallographic and pharmacological approaches to the study of calcium channels of epithelial cells are also discussed. Calcium ion is a messenger in most cell types. Whereas voltage gated calcium channels have been studied extensively, the non-voltage gated calcium entry channel genes have only been identified relatively recently. The book will fill this important niche.

Key Features

- Focuses on techniques and protocols in the non-voltage gated calcium entry channels
- Fills an important niche with respect to this recently discovered type of calcium channel
- Discusses the strengths and limitations of methods
- Provides basic background information on the structure and function of calcium channels
- Useful reference book for diverse approaches/techniques for ion channel researchers
- Can be used as a teaching aid for advanced graduate level courses

Related Titles

Putney, J. W., Jr. *Calcium Signaling, 2nd edition* (ISBN 978-0-8493-2783-4)

Marks, F. et al. *Cellular Signal Processing: An introduction to the Molecular Mechanisms of Signal Transduction* (ISBN 978-0-8153-4534-3)

Cheng, X., ed. *Cyclic Nucleotide Signaling* (ISBN 978-1-4822-3556-2)



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Abingdon, Oxon OX14 4RN, UK

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