



# Ion Channels: From Atomic Resolution Physiology to Functional Genomics

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## DESCRIPTION

Ion channels provide a unique opportunity to use computational approaches to attempt an understanding of the function of a membrane protein, starting with an atomic resolution structure and progressing through a hierarchy of theoretical descriptions until one can account quantitatively for their physiological function. This book brings together physiologists, structural biologists and theorists who came together to help define the direction of the field in the immediate future.

Topics covered include:

- the x-ray structure of channels and pores
- computer simulation of channel function
- detailed data on potassium channels, chloride and calcium channels, and ligand-gated ion channels

## ABOUT THE AUTHOR

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