

前 言

科研工作者在过去几年对离子通道越来越感兴趣,离子通道的研究快速增长,这一切都彰显了离子通道在生命活动中的重要性。本书的主旨在于提供对离子通道研究具有重大价值和意义的分子和物理方法。

本书的作者均是《酶学方法》(*Methods in Enzymology*)系列丛书中的撰稿者,之所以选择他们来阐述不同的主题,是因为他们在其领域内有卓越的研究贡献。我们鼓励他们多利用图表,将某种方法和其他方法作对比,并提供有用的技巧和实用的途径,以期能简单地应用于其他体系。

我们鼓励本书的作者采取一种既容易被这个领域的入门者所模仿,又能为经验丰富的研究者提供有价值的信息的方式来介绍这些研究方法。

本人由衷感谢撰稿者对稿件的修订,以及 Academic Press 的工作人员的帮助和为保持卓越的产品标准所付出的努力。

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PREFACE

PART I

The rapid growth of interest and research activity in ion channels is indicative of their fundamental importance in the maintenance of the living state. This volume was prepared with a view to providing a sampling of the range of molecular and physical methods that are significant for the study of ion channels.

The authors were selected from the contributors of previous *Methods in Enzymology* volumes on that topic on the basis of their significant research contributions in the area about which they have written. They have been encouraged to make use of graphics and comparisons with other methods, and to provide tricks and approaches that make it possible to adapt methods to other systems.

The authors were encouraged to present these methods in a fashion that allows their replication by individuals new to the field, yet providing valuable information for seasoned investigators.

I express my appreciation to the contributors for revising their contributions and to the staff of Academic Press for helpful input and maintaining outstanding production standards.

P. Michael Conn