

Gap Junction Channels and Hemichannels

Gap junction channels are a group of intercellular channels expressed in tissues and organs to synchronize many physiological processes. A gap junction channel is formed by the docking of two hemichannels, and each hemichannel is a hexamer of connexins. The field of gap junction channel and hemichannel research has recently exploded and became one of the most active areas of cell biology. Numerous novel approaches and techniques have been developed, but there is no single book dedicated to the unique techniques and protocols employed for the research on these large pore channels. This book fills the gap and focuses on protocols, approaches and reviews of gap junction channels and connexin hemichannels. It will be a useful reference for graduate students, postdoctoral fellows and researchers. Anyone with an interest in gap junction channels and hemichannels will need this summary of state-of-the-art techniques and protocols.

Key Features

- Focuses on the newest and most useful techniques and protocols for gap junction channels and hemichannels
- Provides readers new to the discipline with basic knowledge in this emerging research field
- Discusses both the strengths and limitations of currently available methods

Related Titles

Oviedo-Orta, E. et al., eds. *Connexin Cell Communication Channels: Roles in the Immune System and Immunopathology* (ISBN 978-1-4398-6257-5)



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