

Series Editor: John M. Walker

TRANSMEMBRANE SIGNALING PROTOCOLS

Edited by

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Transmembrane Signaling Protocols brings together a collection of practical, cutting-edge techniques for the study of cell signaling. Written by acknowledged leaders in the field, the protocols provide detailed, step-by-step instructions, helpful notes, and troubleshooting tips that make even the most powerful of the latest techniques readily reproducible. The protocols presented include the use of peptide libraries to study transmembrane signaling, the use of single-cell assays to analyze signal transduction pathways, the reconstitution of signaling complexes, methods for analyzing protein-protein interactions, and more. Introductory reviews explain the basic theory and enable researchers new to the area to rapidly gain understanding, as well as command of the practical knowledge and expertise afforded by the protocols.

The time-tested techniques collected in *Transmembrane Signaling Protocols* make available to all researchers the many state-of-the-art techniques that have recently led to landmark discoveries in transmembrane signaling. The book is destined to become a standard resource for both conceptual information and the practical detail needed to carry out and interpret laboratory procedures in this dramatically advancing field.

FEATURES

- Features both standard and cutting-edge techniques for cell signaling studies
- Includes practical applications of the most powerful new technologies
- Provides introductory surveys for researchers new to the methodology
- Applies to a wide range of biological systems
- Contains highly successful, time-tested techniques by acknowledged leaders in the field
- Offers step-by-step instructions, along with helpful notes and troubleshooting tips

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