

Since the first TRP ion channel was discovered in *Drosophila melanogaster* in 1989, the progress made in this line of research has yielded findings that offer the potential to dramatically impact human health and wellness. Involved in gateway activity for all five of our senses, TRP channels have been shown to respond to a wide range of stimuli from both within and outside the cell body. How we sense heat and cold, how we taste food, how eggs become fertilized, and how the heart expands and contracts are all dependent on the function of these channels.

TRP Ion Channel Function in Sensory Transduction and Cellular Signaling Cascades presents the most advanced compilation of work in this area to date. Offering 31 chapters written by the world's leading researchers, this cutting-edge work—

- Explores the pivotal function and behavior of these exquisitely tuned channels
- Discusses research leading to the development of novel pharmaceuticals for the treatment of cancer, heart disease, inflammation, and other immune system dysfunctions
- Examines signal transduction in axonal path-finding, and in vascular, renal, and auditory function, as well as pain
- Delves into subjects as diverse as mating and fertilization, inflammatory pain, and mechanisms of pheromone detection in mammals
- Highlights progress in the elucidation of the *in vivo* function of the various members of the TRP ion channel family

While this landmark work explores findings that will be of interest to those involved with advanced research, it also includes significant background material for those looking to familiarize themselves with this exceptionally promising path of inquiry.



Taylor & Francis

Taylor & Francis Group
an informa business

A CRC
www.crcpress.com

GBP 85.00
R741



Sound Parkway, NW
Raton, FL 33487
venue
016
Wilton Park
Oxon OX14 4RN, UK

4048

ISBN 0-8493-4048-9
90000



www.crcpress.com