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Be Painless: Molecular Genetic Analysis of Nociception in Drosophila  
Chapter 17. TRPV Family Ion Channels and Other Molecular Components Required for Hearing and Proprioception in Drosophila  
Chapter 18. The TRPV Channel in C. elegans Serotonergic Neurons;  
Chapter 19. TRP Channel Functioning in Mating and Fertilization;  
Chapter 20. The Role of TRP Channels in Thermosensation; Chapter 21. Voltage and Temperature Gating of ThermoTRP Channels; Chapter 22. TRPV Channels' Function in Osmo- and Mechanotransduction; Chapter 23. TRP Channel Trafficking; Chapter 24. Protein-Protein Interactions in TRPC Channel Complexes  
Chapter 25. Structural Insights into the Function of TRP Channels  
Chapter 26. Functional Significance of Transient Receptor Potential Channels in Vascular Function; Chapter 27. Role of TRPV4 in the Mechanotransduction of Shear Stress in Endothelial Cells; Chapter 28. A New Insight into the Function of TRPV2 in Circulatory Organs; Chapter 29. The Role of TRPV 4 in the Kidney; Chapter 30. The TRPV4 Channel in Ciliated Epithelia; Chapter 31. Protease-Activated Receptors: Mechanisms by Which Proteases Sensitize TRPV Channels to Induce Neurogenic Inflammation and Pain; Index; Back Cover

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Sommario/riassunto

Since the first TRP ion channel was discovered in Drosophila melanogaster in 1989, the progress made in this area of signaling 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 are fertilized, how the heart expands and contracts is each dependent on the function of these channels. While no single book could

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