Molecular and Cell Biology of Pain, Vol 131. Progress in Molecular Biology and Translational Science

Description: Pain is the number one reason that people seek medical attention but pain is still under- and poorly-treated world-wide. The purpose of this book is to give an up to date picture of what causes pain, how pain becomes chronic and what pharmacological targets might be manipulated to alleviate acute and chronic pain. The book will cover a wide array of topics from gene polymorphisms to voltage-gated ion channels moving from cellular biology to whole animal physiology.

- Written by future leaders in the pain field
- Covers a wide range of targets
- Contains provocative ideas about the future direction of the pain field.

Contents: An Introduction to Pain Pathways and Pain "Targets? Vaskar Das
Peripheral Scaffolding and Signaling Pathways in Inflammatory Pain Nathaniel A. Jeske
Contribution of Mechanosensitive Ion Channels to Somatosensation Reza Sharif-Naeini
Sensory TRP Channels: The Key Transducers of Nociception and Pain Aaron D. Mickle, Andrew J. Shepherd and Durga P. Mohapatra
The Contribution of Mitochondria to Sensory Processing and Pain Sarah J. L. Flatters
Regulation of Gene Expression and Pain States by Epigenetic Mechanisms Sandrine M. Géranton and Keri K. Tochiki
Translation Control of Chronic Pain Ohannes K. Melemedjian and Arkady Khoutorsky
MicroRNA Biology and Pain Marguerite K. McDonald and Seena K. Ajit
Role of Extracellular Damage-Associated Molecular Pattern Molecules (DAMPS) as Mediators of Persistent Pain Jungo Kato and Camilla I. Svensson
mGluRs Head to Toe in Pain Benedict J. Kolber
Non-neuronal Central Mechanisms of Pain: Glia and Immune Response E. Alfonso Romero-Sandoval and Sarah Sweitzer
Synaptic Inhibition and Disinhibition in the Spinal Dorsal Horn Steven A. Prescott
Dendritic Spine Dysgenesis in Neuropathic Pain Andrew Michael Tan
Commonalities between Pain and Memory Mechanisms and their Meaning for Understanding Chronic Pain Theodore J. Price and Kufreobong E. Inyang
Dietary Influence on Pain via the Immune System Stacie K. Totsch, Megan E. Waite and Robert E. Sorge
Chemotherapy-Induced Peripheral Neuropathy Jill C. Fehrenbacher
Stress and Chronic Pelvic Pain Angela N. Pierce and Julie A. Christianson
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