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Collana	Advances in Experimental Medicine and Biology, , 0065-2598 ; ; 1099
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Nota di contenuto	Molecular Mechanisms of the sense of touch: an overview of mechanical transduction and transmission in Merkel discs of whisker hair follicles and some clinical perspectives -- TRP Channels in Nociception and Pathological Pain -- Involvement of TRPV1-ANO1 interactions in pain enhancing mechanisms -- Roles of ASICs in Nociception and Proprioception -- Tackling pain associated with rheumatoid arthritis: Proton-sensing receptors -- Intra-Fascicular Local Anesthetic Injection damages Peripheral Nerve Induced Neuropathic Pain -- Microglia in the CNS and neuropathic pain -- Descending noradrenergic inhibition –an important mechanism of gabapentin analgesia in neuropathic pain -- Chronic neuropathic pain protects heart from ischemia reperfusion injury -- Knowing the neuronal mechanism of spontaneous pain to treat chronic pain in future -- Role of Neuroinflammation in Opioid Tolerance: Translational Evidence from Human-to-Rodent Studies -- Neural mechanisms of offset analgesia -- Cortical LTP: A synaptic model for chronic pain -- Pain-associated neural plasticity in the parabrachial to central amygdala circuit -- Electrophysiological signature of pain -- Neuroimaging Studies of Primary Dysmenorrhea -- Brain reward circuit and pain -- The Involvement of P2X7 Receptors

	and BDNF in the Pathogenesis of Central Post Stroke Pain -- Melatonin: A new-generation therapy for reducing chronic pain and improving sleep disorder-related pain -- Central poststroke pain, comorbidity, and associated symptoms in animal and human models .
Sommario/riassunto	This book summarizes the latest advances in pain research. All the chapters were contributed by speakers from Asian Pain Symposium (APS) on Acute and Chronic Pain, which was held in Taipei in 2017. Founded in Kyoto, Japan in 2000, the APS serves as a platform for scientists to present recent findings in pain research and discuss research orientation in this field. APS 2017 focused on novel strategies for pain treatment. Written by experts from various disciplines, from molecular to functional, and from basic to clinic studies, this book is composed of 19 review articles on the physiology and pathology of pain in these research fields. Specific topics include circuitry, neurotransmitter, physiology, behavior, neuropathology, pharmacology, and the treatments for neuropathic pain disorders. The book is a valuable resource for researchers and graduate students in pain medicine and neuroscience.