

<<实验病理性痛>>

图书基本信息

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内容概要

Experimental Pathological Pain: From Molecules to Brain Functions is the first academic monograph of English version introducing advancing knowledge about pain mechanisms and its control published by the Chinese publishers. The book is composed of 3 parts (22 chapters): (1) Neurobiology of pathological pain; (2) Neuromodulation of pathological pain and motor dysfunctions; (3) Neuroimaging of experimental human pain. It mainly concentrates on the underlying mechanisms and control strategies of experimental pathological pain with the contents ranging from molecular basis to brain functions and from animals to human beings. The book will be useful to scientific researchers, clinicians, graduate and undergraduate students in the fields of biology, basic medicine and clinical medicine to get good understanding about advances in the study of pain and its management.

书籍目录

List of Contributing Authors Foreword Foreword Preface Acknowledgments Part Neurobiology of Pathological Pain 1. Genetic Basis of Pain Induction and Modulation 2. Gene Expression in Naturopathic Pain Models 3. Peripheral Mechanisms and Modulation in Inflammatory Pain 4. A Contribution of Dorsal Root Reflexes to Neurogenic Inflammation and Pain 5. Signal Molecules and Receptors in Primary Afferent Components of Nociceptive Processing and Plastic Changes 6. The Bee Venom Test : A Novel Useful Animal Model for Study of Spinal Coding and Processing of Pathological Pain Information 7. Trigeminal Mechanisms of Orofacial Pain 8. Application of Adult Rat Spinal Slice Patch-clamp Recording Technique in the Study of Nociceptive Transmission and Modulation 9. Temporal Firing Patterns and Responsiveness of Injured Sensory Neurons 10. Temporal Decoding of Persistent Pain Signal Processing in the Spinal Dorsal Horn : Application of Non-linear Dynamic Analytical Methods 11. Thalamo-Cortical System of Nociception in Animals Part Neuromodulation of Pathological Pain and Motor Dysfunctions 12. Physiopharmacological Aspects of Pathological Pain States 13. Novel Pharmacology for Control of Chronic Pain 14. The Roles of 5-HT_{1A} Receptor in Modulating Spinal Nociceptive Transmission in Inflammatory Rats 15. Low- and High-Frequency Electroacupuncture : Difference in Neural Pathways and Therapeutic Effects 16. Restitution of Upper-Limb Movement Promoted with Functional Electrical Therapy (FET) 17. Intranasal Morphine for Pain Management Part Neuroimaging of Experimental Human Pain 18. Experimental Human Pain 19. EEG/MEG Brain Mapping of Human Pain 20. Principles of Human Pain Imaging with PET 21. The Application of Source Modelling to Functional Imaging of the Brain Based on EEG and MEG 22. Near-infrared Optical Imaging of the Human Brain

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