



Translational Pain Research: From Mouse to Man (Frontiers in Neuroscience)

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One of the Most Rapidly Advancing Fields in Modern Neuroscience

The success of molecular biology and the new tools derived from molecular genetics have revolutionized pain research and its translation to therapeutic effectiveness. Bringing together recent advances in modern neuroscience regarding genetic studies in mice and humans and the practicality of clinical trials, **Translational Pain Research: From Mouse to Man** effectively bridges the gap between basic research and patient care by humanely examining rodent models for pain associated with bone cancer, osteoarthritis, fibromyalgia, and cardiac episodes.

Distinguished Team of International Contributors

In addition to addressing the groundbreaking technical advances in tract tracing, endocannabinoids, cannabis, gene therapy, siRNA gene studies, and the role of glia, cytokines, P2X receptors and ATP, this book also presents cutting-edge information on:

- Nociceptor sensitization
- Muscle nociceptors and metabolite detection
- Visceral afferents in disease
- Innovative rodent model for bone cancer pain
- Highly specific receptor cloning
- Modular molecular mechanisms relevant to painful neuropathies

This sharply focused work also discusses unexpected discoveries derived from brain-imaging studies related to thalamic pain. **Translational Pain Research** covers the progress made toward bringing laboratory science (much of it at the molecular level) to our understanding of pain phenomena in humans, with the ultimate goal of reducing the suffering that often accompanies pain and its indirect consequences.

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