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   Nota di contenuto   Chapter 1. Pain physiology (defining acute and chronic pain) -- Chapter
                       2. Neurobiology of nociception (anatomy of ascending and descending
                       systems) -- Chapter 3. Genetics of pain and co-occuring symptoms --
                       Chapter 4. Sex differences and pain genomics -- Chapter 5. Systems
                       biology/multi-omis approaches to pain and co-occuring symptoms --
                       Chapter 6. Pre-clinical rodent models of pain for genomics studies --
                       Chapter 7. Clinical models of experimental pain for genomics studies
                       -- Chapter 8. Clinical pain genomics research -- Chapter 9. Pain
                       phenotyping (methods, measures) -- Chapter 10. Precision health and
                       pain genomics -- Chapter 11. Exemplars of pain genomics studies
                       (could be multiple chapters) -- Chapter 12. Roadmap to translation of
                       pain genomics.

Sommario/riassunto

This book provides an overview of the field of pain genomics and the genomics of related, or co-occuring, symptoms, the current state-of-the-science, and challenges that remain. It brings differing views in the field together and provides examples of translational science from using cellular and rodent models to human clinical trials. This book's structure leads the reader through the physiology of pain and genomics into how pain is studied, mechanisms of acute and chronic pain, various protocols that are used throughout the field along with the pros/cons of the current methods used, and project into the future of pain genomics. This work is intended for classroom teaching, for nurses, for novice researchers in symptom science and pain research as well as students and postdoctoral fellows.