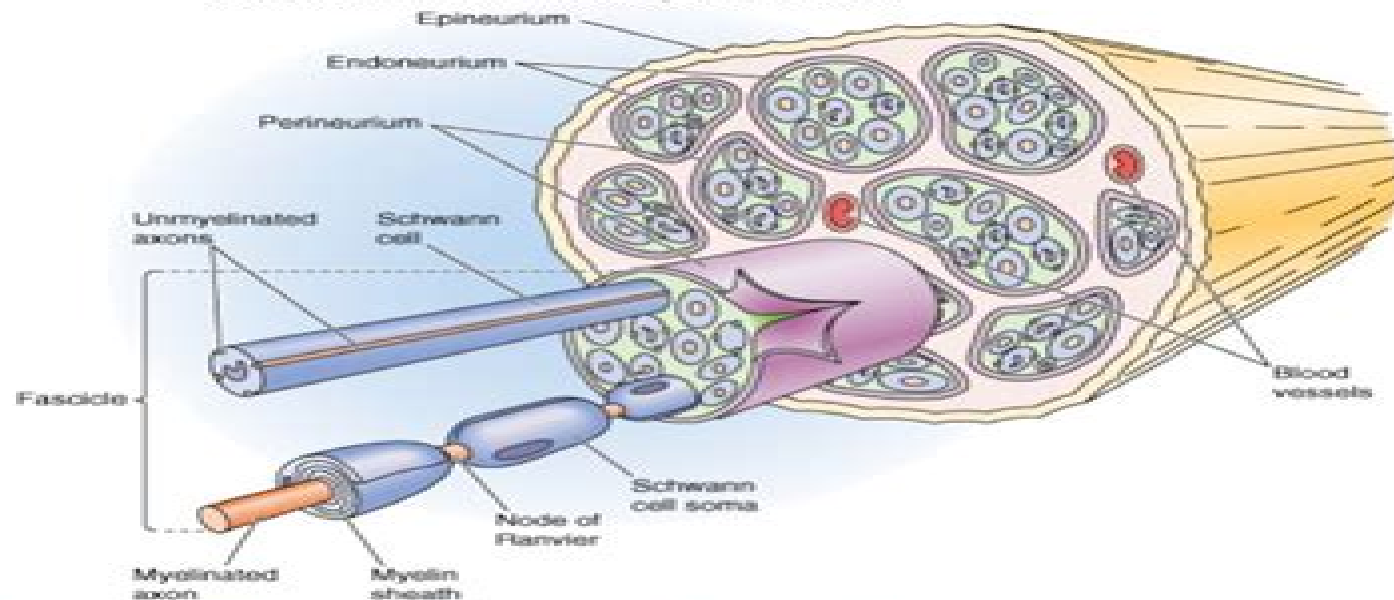


# Somatosensory Mechanisms

## Sensation

- All sensations involve:
  - Location – where the sensation was felt
  - Character – what the sensation was
  - Kinaesthesia – sense of movement
  - Proprioception – relation to other body parts
- Sensations depend on neurons:
  - Group I and group II neurons = large-diameter, myelinated afferent fibres associated with tactile, kinaesthetic and proprioceptive sensations
  - Group III and group IV neurons = small-diameter, unmyelinated afferent fibres associated with thermal and pain sensations



## Primary Afferent Fibres – “Sensory Detectors”

- Primary afferent fibres are primarily bipolar (they have two axonal processes)
  - 1<sup>st</sup> process = primary afferent terminal/receptor complex
  - 2<sup>nd</sup> process = central dendrites = termination point within the CNS
- Somatic sensations are those that are elicited by stimulation of body tissues other than those specialised for sight, balance, hearing and taste

# Somatosensory Mechanisms

**Aage R. Møller**



## **Somatosensory Mechanisms:**

Fundamental Neuroscience Larry Squire, James L. Roberts, Nicholas C. Spitzer, Michael J. Zigmond, Darwin Berg, Floyd E. Bloom, Sascha du Lac, Anirvan Ghosh, Larry R. Squire, Susan K. McConnell, 2002-11-19 With over 300 training programs in neuroscience currently in existence demand is great for a comprehensive textbook that both introduces graduate students to the full range of neuroscience from molecular biology to clinical science but also assists instructors in offering an in depth course in neuroscience to advanced undergraduates The second edition of Fundamental Neuroscience accomplishes all this and more The thoroughly revised text features over 25% new material including completely new chapters illustrations and a CD ROM containing all the figures from the text More concise and manageable than the previous edition this book has been retooled to better serve its audience in the neuroscience and medical communities Key Features Logically organized into 7 sections with uniform editing of the content for a one voice feel throughout all 54 chapters Includes numerous text boxes with concise detailed descriptions of specific experiments disorders methodological approaches and concepts Well illustrated with over 850 full color figures also included on the accompanying CD ROM

**Molecular mechanisms for reprogramming hippocampal development and function by early-life stress** Xiao-Dong Wang, Mathias V. Schmidt, 2016-04-06 The early postnatal period is a crucial stage for hippocampal development During this critical period the neonatal hippocampus is highly sensitive to the detrimental consequences of adverse environmental factors Extensive clinical and preclinical evidence has shown that traumatic events early in life have profound and persistent effects on hippocampal function and behavior This research topic focuses on the acute and lasting effects of early life stress on various developmental processes in the hippocampus and aims to uncover the molecules that are responsible for early life stress programmed effects and underlie resilience or vulnerability to stress related neuropsychiatric disorders later in life We hope the articles in this research topic will provide novel insights and stimulate future studies on the mechanisms of early life stress and brain development

*Essentials of Pathophysiology* Carol Porth, 2011 Porth Pathophysiology understanding made easy delivered however you need it Porth's Essentials of Pathophysiology 3e delivers exceptional student understanding and comprehension of pathophysiology An expanded robust and flexible suite of supplements makes it easy for you to select the best course resources so you can meet your students changing needs For both discrete and hybrid courses the flexibility and power of Porth allows you to customize the amount of pathophysiology that you need for effective teaching and learning Including a resource DVD with text

**Migraine Aura: Mechanisms, Symptoms, and Innovative Treatment Strategies** Dr. Spineanu Eugenia, 2025-02-19 Explore the comprehensive treatise on Migraine Aura a vital aspect of migraine pathology This detailed work delves into the intricate mechanisms behind migraine aura examining neurovascular dynamics symptomatology and the interplay with psychological factors It addresses the triggers associated with aura and offers insights into effective preventive and acute treatment strategies including both pharmacological and non pharmacological

approaches The treatise is designed for medical professionals researchers and individuals seeking a deeper understanding of migraine aura s impact on quality of life By integrating clinical evidence and holistic perspectives this resource aims to enhance the management of migraines improve patient outcomes and foster a greater awareness of this complex condition Discover the essential knowledge necessary to navigate the challenges of migraine aura and its implications for those affected

**Degeneration and Regeneration in the Nervous System** Norman Saunders,Katarzyna Dziegielewska,2003-09-02 Degeneration and Regeneration in the Nervous System brings together an international team of contributors to produce a series of critical reviews appraising key papers in the field The pace of research on brain and spinal cord injury quickened considerably in the last ten years and there is much that is new and important that is covered in this book However there is still a long way to go before our knowledge will explain fully why the central nervous system has such a limited capacity for regeneration and before experimental solutions can be applied to the patient With emphasis on actual and therapeutic importance of the work reviewed Degeneration and Regeneration in the Nervous System is a useful overview for graduate students their teachers and researchers working in this field

**Occupational Therapy for Physical Dysfunction** Mary Vining Radomski,Catherine A. Trombly Latham,2008 The definitive work on occupational therapy for physical dysfunction returns in its Sixth Edition with reputable co editors and clinical academic and consumer contributors This text provides a current and well rounded view of the field from theoretical rationale to evaluation treatment and follow up Through the Occupational Functioning Model OFM the Sixth Edition continues to emphasize the conceptual foundation and scientific basis for practice including evidence to support the selection of appropriate assessments and interventions NEW TO THIS EDITION Student DVD with video clips demonstrating range of motion manual muscle testing construction of hand splints and transferring patients Evidence Tables summarize the evidence behind key topics and cover Intervention Participants Dosage Type of Best Evidence Level of Evidence Benefit Statistical Probability and Reference Assessment Tables summarize key assessment tools and cover Instrument and Reference Description Time to Administer Validity Reliability Sensitivity and Strengths and Weaknesses

**The Human Locomotor System** Thompson Sarkodie-Gyan,Huiying Yu,2023-06-27 The textbook describes the complexity of the human dynamic behavior in space and its ability to produce coordinated adaptive dynamically stable movements under steady conditions while negotiating complex terrains and experiencing unexpected perturbations Applying fundamental theories of biomechanics and physiology the authors further consider the physical perceptual and motor aspects of the locomotor system towards the analysis of how humans can behave adaptively in space by virtue of their intelligent sensory motor functions and to illuminate our understanding of how this complexity in behavior can provide insight into the neural control of locomotion of the musculoskeletal system The text provides a foundation for describing the normal and abnormal human locomotor systems The Human Locomotor System Physiological and Technological Foundations is intended as a primary text for upper undergraduate and graduate level

courses in neuroscience gait analysis kinesiology physical therapy sports science and biomedical and rehabilitation engineering It is also a valuable professional reference for scientists and engineers at medical and pharmaceutical companies involved in bioengineering research and development     Regeneration and Plasticity in the Mammalian Visual System

Dominic Man-Kit Lam, Garth M. Bray, 1992 This fourth volume in the Retina Research Foundation Symposia Proceedings highlights several of the strategies and experimental paradigms that are currently used to exploit and amplify the regenerative capacity of the adult mammalian visual system and reviews the exciting advances being made in understanding the molecular basis of central nervous system regeneration Because loss of neurons or interruptions of their connective pathways in the mammalian visual system can in contrast to certain amphibians and fish lead to permanent loss of vision studies of regeneration and plasticity in this system serve as valuable models for the reconstitution of other parts of the nervous system and as potential approaches to the diverse disorders that lead to visual loss Dominic Man Kit Lam is Director of the Center for Biotechnology and Professor of Biotechnology Cell Biology and Ophthalmology at Baylor College of Medicine Garth M Bray is Professor in the Centre for Research in Neuroscience at McGill University Partial Contents and Contributors I Introduction Harold J Sheedo James E Turner II Cells and Molecules that Influence Neuronal Survival Susan O Meakin Eric M Shooter Garth M Bray Lamberto Maffei et al III Molecular Mechanisms of Axonal Regeneration Louis F Reichardt Greg E Lemke Randall N Pittman Susan Spencer Mark B Willard et al IV Retinal Responses to Injury and Transplantation Kwok Fai So Raymond D Lund Harold J Sheedlo Manuel P delCerro et al V Plasticity of Connectivity in the Visual System Edward G Jones Douglas O Frost Torsten N Wiesel Albert J Aquayo et al     The Human Nervous System

George Paxinos, 2012-12-02 The Human Nervous System is a definitive account of human neuroanatomy with a comprehensive coverage of the brain spinal cord and peripheral nervous system The cytoarchitecture chemoarchitecture connectivity and major functions of neuronal structures are examined by acknowledged authorities in the field such as Alheid Amaral Armstrong Beitz Burke de Olmos Difiglia Garey Gerrits Gibbins Holstege Kaas Martin McKinley Norgren Ohye Paxinos Pearson Pioro Price Saper Sasaki Schoenen Tadork Voogd Webster Zilles and their associates Large clearly designed 8 1 2 x 11 format 35 information packed chapters 500 photomicrographs and diagrams 6 200 bibliographic entries Table of contents for every chapter Exceptionally cross referenced Detailed subject index Substantial original research work Mini atlases of some brain regions     Sensory Mechanisms of the Spinal Cord William D. Willis Jr., Richard E.

Coggeshall, 2013-06-29 The third edition of this monograph continues to have the goal of providing an overview of current thought about the spinal cord mechanisms that are responsible for sensory processing We hope that the book is of value to both basic and clinical neuroscientists Several changes have been made in the presentation as well as additions because of the research advances that have been made during the past decade Chapters 3 and 4 in the previous edition have been subdivided and now the morphology of primary afferent neurons of the dorsal root ganglia is described in Chapter 3 and the

chemical neuroanatomy of these neurons in Chapter 4 The description of the dorsal horn in the previous Chapter 4 is now included in Chapter 5 and the chemical neuroanatomy of the dorsal horn in Chapter 6 Furthermore discussions of the descending control systems have now been consolidated at the end of Chapter 12 The authors would like to express their appreciation for the help provided by several individuals R E C wishes to acknowledge the many things he learned about primary afferent neurons from conversations with Dr S N Lawson He also thanks Lyn Shilling for her assistance with the typing WDW thanks Dr Nada Lawand for her critical reading of parts of the manuscript Rosaline Leigh for help with the manuscript and Griselda Gonzales for preparing the illustrations

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**Systems** Ford F. Ebner, 2005-05-26 Synthesizing current information about sensory motor plasticity Neural Plasticity in Adult Somatic Sensory Motor Systems provides an up to date description of the dynamic processes that occur in somatic sensory motor cortical circuits or somatic sensory pathways to the cortex due to experience learning or damage to the nervous system The book e **The Rat Nervous System** George Paxinos, 2014-07-01 The previous editions of The Rat Nervous System were indispensable guides for those working on the rat and mouse as experimental models The fourth edition enhances this tradition providing the latest information in the very active field of research on the brain spinal cord and peripheral nervous system The structure connections and function are explained in exquisite detail making this an essential book for any graduate student or scientist working on the rat or mouse nervous system Completely revised and updated content throughout with entirely new chapters added Beautifully illustrated so that even difficult concepts are rendered comprehensible Provides a fundamental analysis of the anatomy of all areas of the central and peripheral nervous systems as well as an introduction to their functions Appeals to researchers working on other species including humans

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*Human Pain System* Frederick A. Lenz, 2010-01-21 Pain is a subject of significant scientific and clinical interest This has resulted both from realistic rodent models and the publication of imaging psychological and pharmacological studies in humans Investigators studying rodents refer to anatomical and physiological studies in non human primates to make their results relevant to humans Psychophysical and pharmacological studies in humans are interpreted in terms of anatomical and

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