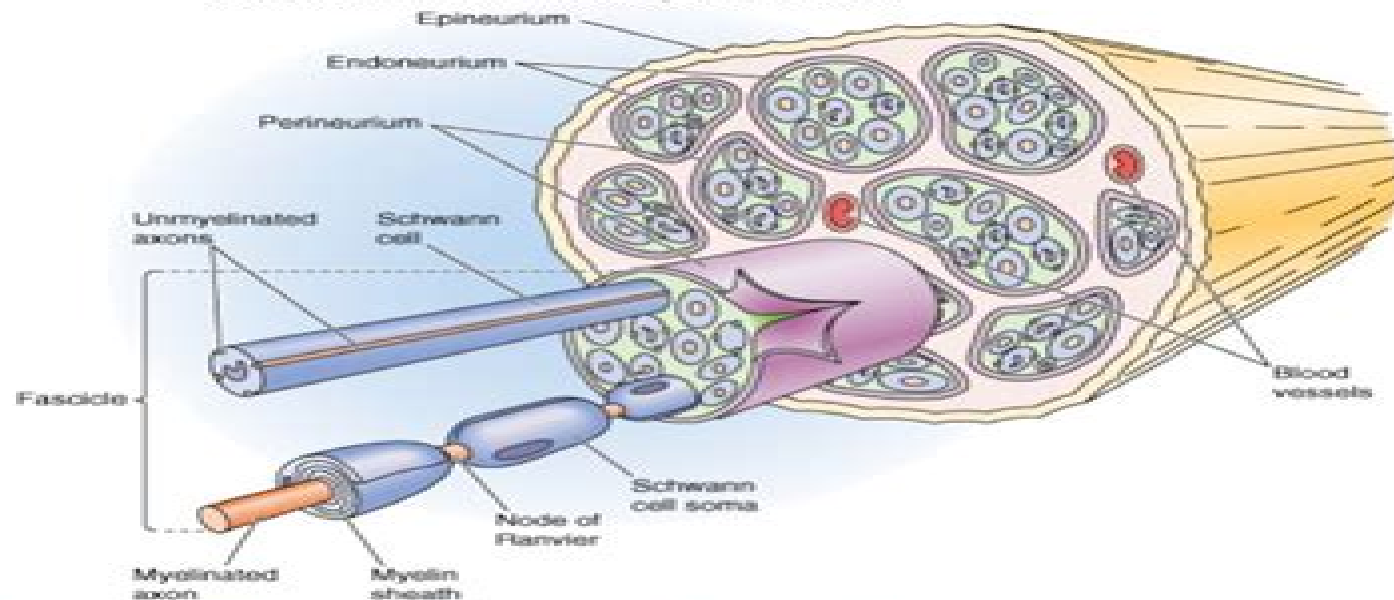


Somatosensory Mechanisms

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)
 - 1st process = primary afferent terminal/receptor complex
 - 2nd 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

Per Brodal



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

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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

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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

The Central Nervous System Per Brodal, 2016 The fifth edition of The Central Nervous System has been thoroughly updated and revised to better equip students with essential information in the field of clinical neuroscience This text is revised to reflect new information as well as an understanding of student needs for critical thinking This text seamlessly integrates data from all fields of neuroscience as well as clinical neurology and psychology and presents the functional properties of clinically relevant disorders by incorporating data from molecular biology to clinical neurology Back cover

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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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