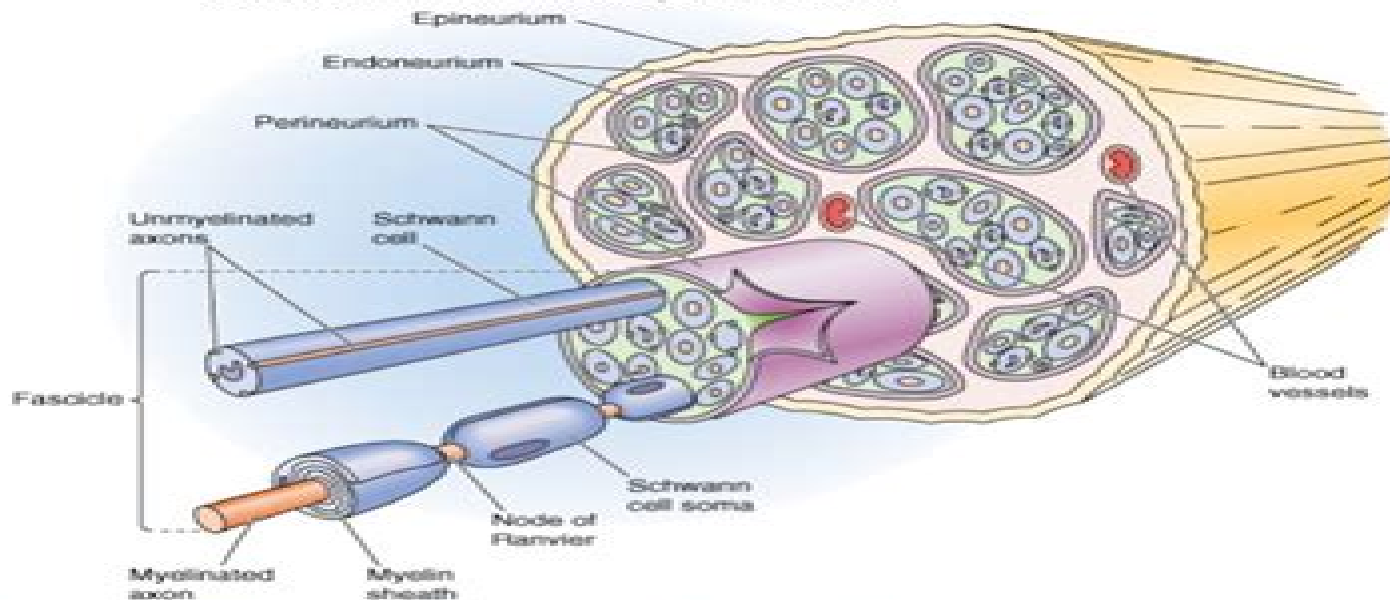


Somatosensory Mechanisms

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

Anders Björklund, Tomas Hökfelt

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

Somatosensory Mechanisms:

Cellular Mechanisms of Sensory Processing Laszlo Urban, 2013-06-29 The research field of somatosensory processing in mammals has experienced revolutionary changes in recent years Accumulation of basic and clinical data has greatly accelerated and new phenomena have emerged With the aid of new refined methods molecular and cellular changes have been described underlying the signal transduction transmission between the internal external environment and the central nervous system have been described The discovery of the interaction between the nervous and the immune system has for example changed our view on the development of inflammatory diseases while the cloning of genes encoding different trophic factors has boosted studies revealing profound changes in the regeneration of neurons and induction of changes in phenotype The study of the pre and postsynaptic modulation of transmitter release and the examination of the combined effects of amino acid and peptide transmitters has become recently possible by using cultured cell lines and in vitro techniques Although it is in embryonic state computational properties of single DRG cells under normal and pathological conditions are being investigated Results soon or later will have a great impact on pain research and consequently ultimately in clinical pain management This brief introduction indicates how our knowledge of the somatosensory system has increased dramatically recently However many investigators cultivate only a very specific field in the growing area of somatosensory research and find it difficult to integrate a more universal knowledge of their work *Somatosensory Mechanisms* Curt von Euler, 2016-06-03 The Somatosensory System Randall J. Nelson, 2001-11-13 Exploring new and past research in the understanding of how the brain deals with its own body image this book provides a review of pertinent literature and offers comprehensive descriptions of technical approaches The material includes new frameworks for the conceptualization of the system s representations scientific and clinical applications that stem from these approaches based on the new concepts and a discussion of tools used to study the interface of the brain and the body The book provides computational strategies for sensorimotor integration of the mammalian brain and includes algorithms for the design and implementation of haptic interfaces and tactile displacement **The Human Nervous System** Juergen K Mai, George Paxinos, 2011-12-13 The previous two editions of the Human Nervous System have been the standard reference for the anatomy of the central and peripheral nervous system of the human The work has attracted nearly 2 000 citations demonstrating that it has a major influence in the field of neuroscience The 3e is a complete and updated revision with new chapters covering genes and anatomy gene expression studies and glia cells The book continues to be an excellent companion to the Atlas of the Human Brain and a common nomenclature throughout the book is enforced Physiological data functional concepts and correlates to the neuroanatomy of the major model systems rat and mouse as well as brain function round out the new edition Adopts standard nomenclature following the new scheme by Paxinos Watson and Puelles and aligned with the Mai et al Atlas of the Human Brain new edition in 2007 Full color throughout with many new and significantly enhanced illustrations Provides

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Cellular Thalamic Mechanisms Marina Bentivoglio,Roberto Spreafico,1988

The Sensory Hand Vernon B. Mountcastle,2005-12-30 Vernon Mountcastle has devoted his career to studying the neurophysiology of sensation in the hand In The Sensory Hand he provides an astonishingly comprehensive account of the neural underpinnings of the rich and complex tactile experiences evoked by stimulation of the hand

Brain Mechanisms of Perception and Memory Taketoshi Ono,1993 Information about perception and memory is accumulating rapidly in both basic and clinical neuroscience and this progress has been made using a variety of approaches while drawing jointly on the traditions of neuroanatomy neurophysiology and neuropsychology In order to disseminate research occurring in leading laboratories around the world an international symposium on Brain Mechanisms of Perception and Memory From Neuron to Behavior was held in Toyama Japan in October 1991 Planned in conjunction with this important meeting this volume presents the work of over 40 eminent scientists from around the world Their research covers many topics including such core issues as the perception of form perception of motion memory and the limbic system the neocortex and neural plasticity A prominent area of discussion at the symposium and one which figures prominently in this volume is work with nonhuman primates especially

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perception and provides a picture of our present understanding of the neural representation of the external world relayed through the somatosensory system

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