



NEURON

The Neuron

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The Neuron :

The Neuron in Context Vanessa Lux, 2024-09-17 Neuroscience has largely abandoned its localizationist and mechanistic framework of the 20th century. The plastic embodied and network character of our nervous system is widely acknowledged and systems theory approaches to consciousness dominate the field. However, the underlying neuron theory has not changed. The neuron doctrine conceptualizing the single neuron as atomistic one directional source of neural function still provides the template for our understanding of these basic elements of our nervous system and the material foundation of consciousness. Yet the single neuron does not exist as an isolated unit. It is embedded within multiple cellular structural and functional contexts and highly depends on them for its development, neural activity and survival. The book discusses the constraints of the neuron doctrine and its pragmatic reductionism in the light of the growing knowledge about the brain's connectivity, plasticity and systemic and embodied nature. To overcome these constraints, the author argues for a new neuron theory depicting the neuron as bidirectional hub which is at the same time source and product of neural function. This bidirectionality is further characterized by spatial and time dimensions placing the neuron within a multi level pathway model of psychobiological development from the perspective of Developmental Embodiment Research. Furthermore, the author discusses the potential of neuroepigenetic markers to characterize the neuron and its range of plasticity within this developmental perspective. With its focus on neuroepigenetics, the book addresses a knowledge gap in the current study of the neural foundations of psychological functions. The multi level and bidirectional perspective is already realized in approaches coming from developmental systems theory which model neural function at the connectome level and it also fits with approaches investigating feedback loops underlying neural activity at the single cell level. At both these levels, the spatial and the time dimensions are well characterized either as changing connectivity patterns across different age groups or as synaptic feedback loops underlying neural activation patterns. However, for the intermediate level of small neural populations which is currently the main target for studies investigating the neural basis of specific psychological functions, this characterization turned out to be more challenging. Multi cell recordings have provided a first glimpse into the complex interaction patterns of these small neural networks but they are limited to the recording period and do not provide information about the long term developmental and activation history. Here neuroepigenetic markers could be of use. Due to their relative stability and at the same time environmental sensitivity, neuroepigenetic markers represent an additional layer of information in which to a certain degree, the cell's metabolic and activation history is aggregated over time. This information is available at the single neuron level but could also be modeled as aggregated information for small neural populations and the supporting cellular context. Looking through this epigenetic lens adds to our understanding of the neuron as bidirectional hub by emphasizing the molecular correlates of functional stabilization and their contextual prerequisites. These prerequisites reach from the immediate cellular context to the social cultural contexts which shape the culturally

specific modes of acquisition of psychological functions throughout the lifespan Accounting for this multilayered contextuality of the neuron and its function affords to repositions the relationship between neuroscience and psychology in their joint effort to unravel the material basis of consciousness This provides new challenges but also new perspectives for theoretical psychology The book presents these current developments and debates to researchers graduate students and interested professionals and practitioners working in neuroscience epigenetics psychiatry psychology and psychotherapy It also provides a basic introduction into neuroepigenetics its mechanisms and first findings for graduate students as well as interested professionals and practitioners working in psychiatry psychology and psychotherapy

Foundations of the Neuron Doctrine Gordon M Shepherd, 2015-10-06 The neuron doctrine first formulated in 1891 states that the brain is constructed of individual neurons organized into functioning circuits that mediate behavior It is the fundamental principal that underlies all of neuroscience and clinical neurology *Foundations of the Neuron Doctrine* gives an authoritative account of how this theory was the product of an explosion of histological studies and vigorous debates near the end of the nineteenth century by an extraordinary group of scientists led by Santiago Ramon y Cajal of Spain using a selective stain discovered by Camillo Golgi of Italy They were the first to describe the distinctive branching patterns of nerve cells providing evidence that the cells interact as individual units to form circuits opposed however by Golgi who held out for a view that the nerve cells form syncytial networks Studies in the 1950s appeared to confirm the nerve cell as an individual unit as embodied in the neuron doctrine which became the basis for the rise of concepts of normal and disordered neural function since then This 25th Anniversary Edition is timely Recent studies are showing a much greater degree of complexity in neuronal organization so that the debate of neuron versus network is again coming to the fore in neuroscience research Unique to this Anniversary Edition is the inclusion of commentaries by distinguished international leaders Marina Bentivoglio Xavier De Felipe Sten Grillner Paolo Mazzarello Larry Swanson and Rafael Yuste on the continuing relevance of the neuron doctrine for modern studies of the brain at all levels from genes and molecules to microcircuits neural networks and behavior As this new wave of modern studies expands our concepts of nervous function as the basis of behavior *Foundations of the Neuron Doctrine* will be a unique source providing conceptual continuity from classical times to the present and into the future With commentaries from Marina Bentivoglio Paolo Mazzarello Javier DeFelipe Larry Swanson Sten Grillner Rafael Yuste

Cognitive Phase Transitions in the Cerebral Cortex - Enhancing the Neuron Doctrine by Modeling Neural Fields Robert Kozma, Walter J. Freeman, 2015-10-30 This intriguing book was born out of the many discussions the authors had in the past 10 years about the role of scale free structure and dynamics in producing intelligent behavior in brains The microscopic dynamics of neural networks is well described by the prevailing paradigm based in a narrow interpretation of the neuron doctrine This book broadens the doctrine by incorporating the dynamics of neural fields as first revealed by modeling with differential equations K sets The book broadens that approach by application of random graph theory neuropercolation The

book concludes with diverse commentaries that exemplify the wide range of mathematical conceptual approaches to neural fields This book is intended for researchers postdocs and graduate students who see the limitations of network theory and seek a beachhead from which to embark on mesoscopic and macroscopic neurodynamics *Archives of Neurology and Psychopathology* George Alder Blumer,Ira Van Gieson,1899 The New International Encyclopædia Frank Moore Colby,Talcott Williams,1917 **The New International Encyclopaedia** ,1929 **New International Encyclopedia** ,1916 Correlation of sciences in the investigation of nervous and mental diseases Ira Van Gieson,1899 Journal of the American Medical Association American Medical Association,1896 Includes proceedings of the Association papers read at the annual sessions and list of current medical literature Medical Record George Frederick Shrady,Thomas Lathrop Stedman,1902 *A Manual of therapeutic exercise, and massage, designed for the use of physicians, students, and massuers* Carl Hermann Bucholz,1917 **The Encyclopaedia Britannica** ,1902 **The Anatomy of the Nervous System** Stephen Walter Ranson,1920 The Anatomy of the Nervous System from the Standpoint of Development and Function Stephen Walter Ranson,1923 Progress of Science in the Century John Arthur Thomson,1903 *Medical Times* ,1919 **New York Journal of Homœopathy** ,1919 **British Medical Journal** ,1921 **The Westminster Review** ,1910 Clinical Journal ,1898

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