

# **Role Of Peptides In Neuronal Function**

**SB Merriam** 

# **Role Of Peptides In Neuronal Function:**

The Role of Peptides in Neuronal Function Jeffery L. Barker, Thomas Graves Smith, 1980 The Role of Peptides in Neuronal Function Jeffery L. Barker, Thomas Graves Smith, 1980 Extrasynaptic neurotransmission as a way of **modulating multiple neuronal functions** Francisco F. De-Miguel, Kjell Fuxe, Extrasynaptic transmission is a unifying term for a wide variety of cellular processes in which outside of synaptic terminals transmitter substances activate extrasynaptic receptors Whereas synaptic transmission immediately refers to a process occurring at nerve terminals in which the arrival of a presynaptic impulse evokes exocytosis followed by a postsynaptic response within a millisecond time scale extrasynaptic transmission has a wide diversity of ultrastructural and therefore mechanistic associated phenomena In comparison to synaptic extrasynaptic exocytosis may last for seconds or even minutes thus expanding the timing of neuronal signaling Extrasynaptic transmission has now been demonstrated in central and peripheral neurons of vertebrates and invertebrates and involves many different types of transmitter substances than include low molecular weight transmitters acetilcholine GABA glutamate ATP and biogenic amines and peptides substance P vasopressin and others It may occur when transmitters leak out from the synaptic cleft and activate extrasynaptic receptors in neighboring neurons or glial cells or when axonal varicosities dendrites or the somata release transmitters in the absence of postsynaptic counterparts. The release mechanisms also vary from one neuron type to another and from one neuronal compartment to another In some cases clear vesicles are apposed to the resting plasma membrane as in presynaptic terminals In other cases transmitters are packed onto dense core vesicles that rest at a distance from the release sites In between there are multiple morphological combinations that point to complementary mechanisms in different compartments of the same neuron and some times even in the same compartment For example serotonergic varicosities may combine clear and dense core vesicles in stereotyped arrays This diversity adds complexity to the nervous system and raises many questions that are waiting for answers Extrasynaptic transmission may be the main source of transmitter molecules causing volume transmission however this still lacks direct demonstration From the physiological point of view one may ask how does the neuronal firing pattern evokes synaptic or extrasynaptic transmitter release or what are the physiological effects of these modes of transmission From the behavioral point of view it becomes interesting to explore how circuits and therefore behaviors are modulated Some neurological disfunctions may also be related to deficiencies in extrasynaptic transmission however again direct studies are still lacking Developmental and evolutionary biologists may also find the topic inspiring Extrasynaptic transmission not only expands our view about how the nervous system works but also requires a change in the way we plan our research New technological and computational tools are now being applied to analyze intracellular and extracellular transmitter mobilizations or long term changes of neuronal circuits New definitions and mechanisms may become visible In the meanwhile this seems to be a good moment for a first common effort to analyze and discuss extrasynaptic transmission in different systems and from different

perspectives The Neuronal Functions of EF-hand Ca(2+)-binding Proteins 2nd Edition Michael R. Kreutz, José R. Naranjo, Karl-Wilhelm Koch, Beat Schwaller, 2016-11-01 Ca2 signaling in neurons is characterized by highly restricted and dynamic gradients called Ca2 waves spikes transients and puffs depending upon their corresponding spatial and temporal features Based on this strict segmentation the Ca2 ion provides a versatile basis for complex signaling in neuronal subcompartments with a spatial resolution of micro and nanodomains. The multitude of Ca2 regulated processes requires specialized downstream processing machinery translating the Ca2 signal into alterations of cellular processes The broad range of different Ca2 triggered phenomena in neurons ranging from neurotransmission to gene expression is reflected by the existence of a multitude of different Ca2 binding proteins CaBPs from which numerous belong to the EF hand super family EF hand proteins can be subdivided into Ca2 buffer and Ca2 sensor proteins Whereas the first group has a very high affinity for Ca2 exhibits little conformational change in the Ca2 bound state and is thought to mainly chelate Ca2 the second group has a lower affinity for Ca2 and shows considerable conformational changes upon Ca2 binding which usually triggers a target interaction Neuronal calcium sensor NCS proteins and the related Caldendrin CaBP Calneuron nCaBPs proteins are members of this latter group They resemble the structure of their common ancestor Calmodulin CaM with four EF hand Ca2 binding motifs of which not all are functional However despite their structural homology with CaM NCS as well as nCaBPs are quite diverse in amino acid sequence It is therefore surprising that relatively few binding partners have been identified that are not CaM targets and this raises the question of the specificity and function of these interactions In terms of function binding of NCS and nCaBP has frequently different consequences than binding of CaM which substantially increases the versatility of the Ca2 tool kit The general idea of this special issue is to provide an overview on the function of neuronal EF hand calcium binding proteins in health and disease But we will not just provide a mere collection of articles to stress the function of each protein The issue will mainly deal with emerging concepts on Ca2 signaling buffering mediated by EF hand Ca2 binding proteins This includes questions like features that define the functional role of a EF hand calcium sensor in neurons the conditions that make physiological relevance of a given interaction of a CaBP with its target plausible the emerging synaptic role of these proteins and mounting evidence for their role in the regulation of protein trafficking Structural aspects and biophysical studies will be covered Another aspect will be the role of CaBPs in brain disease states This aspect includes studies showing that CaBPs are targets of drugs in clinical use studies showing that expression levels of calcium binding proteins are frequently altered in brain disease states as well as reports on mutations in EF hand calcium **Neural Functions of the Delta-Opioid Receptor** Ying Xia, 2015-12-29 This book is the sensors linked to human disease first to summarize the progress of research on neural functions of the the delta opioid receptor DOR to date This receptor a member of the opioid receptor family was traditionally thought to be primarily involved in pain modulation Recent new findings have shown its unique role in neuroprotection and many other functions Many scientists from a number of

independent laboratories have now confirmed that DOR can provide neuroprotection against hypoxic ischemic injuries They have also found that it plays a role in a variety of physiological and pathophysiological events such as hypoxic encephalopathy epilepsy acupuncture Parkinson's disease etc by regulating ionic homeostasis glutamate transportation and signaling and balancing intracellular survival death signals The book will provide a comprehensive overview of the current state of DOR research and provide a blueprint for future directions **Biomedical Index to PHS-supported Research**, 1991 **Gut Microbiota-Brain Axis in Enteric and Central Neuronal Functions in Health and Neuropsychiatric Disorders** Francesca Ronchi, Raffaella Gozzelino, Lloyd Kasper, 2022-06-28 Topic Editor Dr Kasper is co founder of Symbiotix Biotherapeutics The other Topic Editors declare no competing interests with regards to the Research Topic theme

**Neurochemical Systems** Abel Lajtha, 2013-03-14 **Structure and Function of the Neural Cell Adhesion** Molecule NCAM Vladimir Berezin, 2009-12-17 This book describes recent developments concerning structural functional and possible therapeutic aspects of one particular CAM the neural cell adhesion molecule NCAM Published Scientific Papers of the National Institutes of Health National Institutes of Health (U.S.),1982 Each issue lists papers published during Adaptive Capabilities of the Nervous System ,2011-09-22 Adaptive Capabilities of the Nervous the preceding year System Biomedical Index to PHS-supported Research: pt. A. Subject access A-H, 1992 **Neuron Signaling in** Metabolic Regulation Qingchun Tong, 2021-06-07 This book focuses on neuron signaling in the regulation of metabolism and body weight and especially on methods used in these studies Obesity and related metabolic syndromes have reached epidemic status but still are no effective strategies for prevention and treatment Body weight homeostasis is maintained by balanced food intake and energy expenditure both of which are under the control of brain neurons In the recent years significant progress has been made in identifying specific neurons neural pathways and non neuron cells in feeding regulation as well as in delineating autonomic nervous systems targeting peripheral metabolic tissues in the regulation of energy expenditure and metabolism This book reviews recent progress on important neuron signaling for body weight and metabolic regulation and the state of the art methods that has been applied in this field ranging from animal models with neuron specific manipulations pharmacology optogenetics in vivo Ca2 imaging and viral tracing Readers will be exposed to latest research frontiers on neuron regulation of metabolism Key Features Explores the role signaling between neurons plays with respect to metabolism Documents how neurotransmitters affect the regulation of feeding Describes various methods and technologies used to study the neuronal control of metabolism Includes contributions from an international team of leading researchers Related Titles Lim W B Mayer Cell Signaling Principles and Mechanisms ISBN 978 0 8153 4244 1 Feltz A Physiology of Neurons ISBN 978 0 8153 4600 5 Zempleni J K Dakshinamurti eds Nutrients and Cell Signaling ISBN 978 0367 **Research Awards Index** .1987 **Nutritional Modulation of Neural Function** John E. Morley, 2012-12-02 393076 Nutritional Modulation of Neural Function probes into the mechanisms by which ingested foods can exert such influences

and modulate neuronal function The compendium is based on the meeting held in Santa Barbara California in March 1986 under the aegis of the Brain Research Institute of the University of California Los Angeles The papers in the book examines topics such as the effects of food on the release of peptide hormones from the gastrointestinal tract and the effect of these peptides on central nervous system function the mechanisms by which mammals regulate ingestive behaviors food myths and the effects of various nutritional components to behavior and mental functioning the evidence that glucose can modulate opioid receptors and alter a number of opioid dependent behaviors and the role of zinc metabolism in limbic system structures in the pathogenesis of seizures Neurologists pathologists and researchers in the field of medicine will find the text Metabolic Disorders Associated with Autism Spectrum Disorders: Approaches for Intervention very insightful Joana M. Gaspar, Humberto M. Carvalho, Alberto Camacho-Morales, 2022-01-20 Handbook of Biologically Active Peptides Abba Kastin, 2013-01-26 Handbook of Biologically Active Peptides Second Edition is the definitive indispensable reference for peptide researchers biochemists cell and molecular biologists neuroscientists pharmacologists and endocrinologists Its chapters are designed to be a source for workers in the field and enable researchers working in a specific area to examine related areas outside their expertise Peptides play a crucial role in many physiological processes including actions as neurotransmitters hormones and antibiotics Research has shown their importance in such fields as neuroscience immunology pharmacology and cell biology The second edition of Handbook of Biologically Active Peptides presents this tremendous body of knowledge in the field of biologically active peptides in one single reference. The section editors and contributors represent some of the most sophisticated and distinguished scientists working in basic sciences and clinical medicine Presents all aspects of biologically active peptides in one resource Features more than 20 sections spanning plant bacterial fungal venom and invertebrate peptides to general peptides Includes immunological inflammatory cancer vaccine and neurotrophic peptides Discusses peptide precursors mRNA distribution processing and receptors not just pathophysiological implications

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