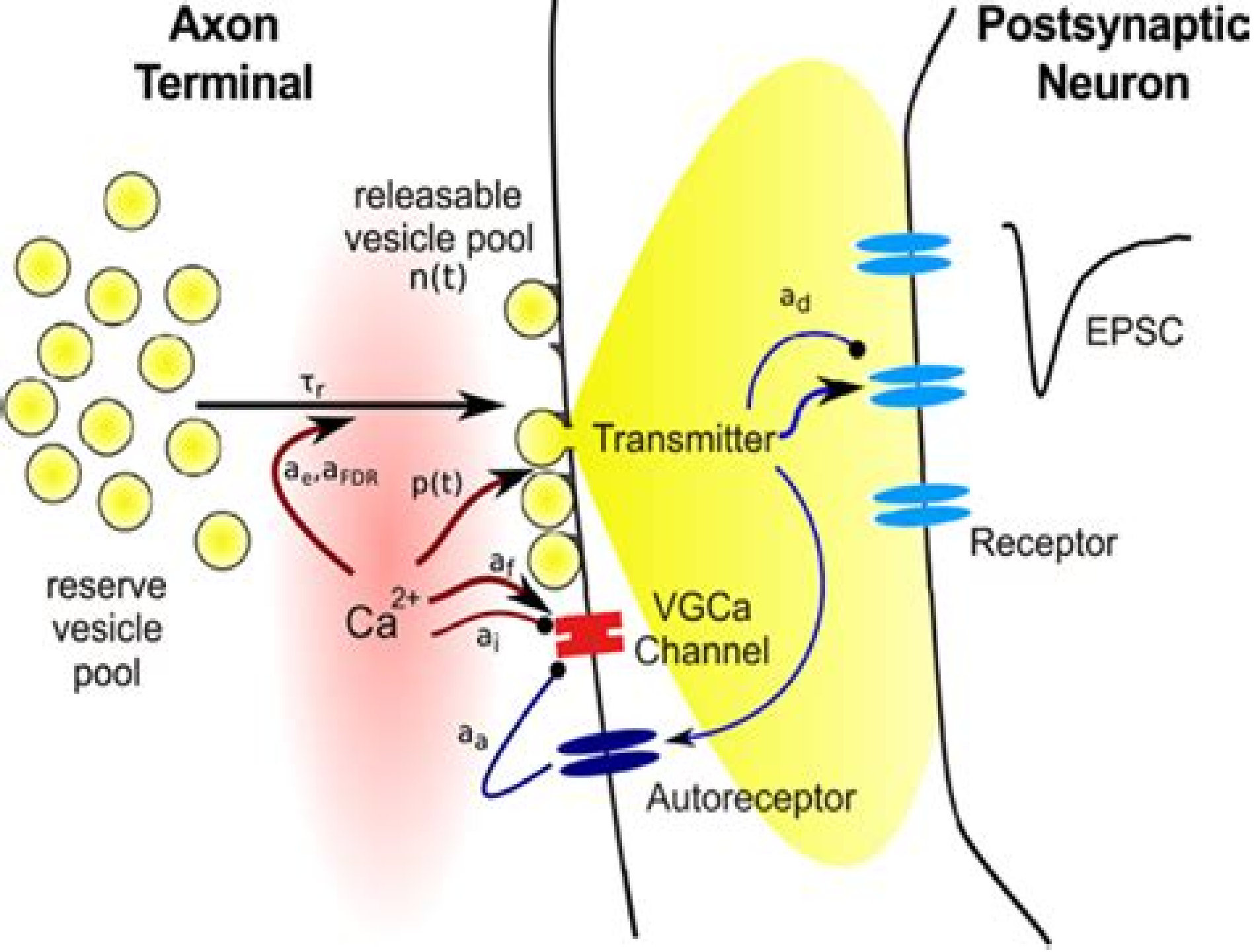




Theoretical Models Of Synaptic Short Term Plasticity

**Cristina Savin, Matthieu
Gilson, Friedemann Zenke**



Theoretical Models Of Synaptic Short Term Plasticity:

Neural Information Processing with Dynamical Synapses Si Wu, Michael K Y Wong, Misha Tsodyks, 2015-01-08

Synaptic Plasticity - Neurobiology, Neuroanatomy, and Clinical Neuroscience Ioannis Mavroudis, 2025-09-03

Synaptic Plasticity Neurobiology Neuroanatomy and Clinical Neuroscience explores the brain's remarkable capacity to adapt through changes in synaptic strength and connectivity. This volume brings together leading experts to examine the mechanisms that underlie learning, memory development, and recovery from injury. Spanning molecular biology, structural neuroanatomy, and clinical practice, the book offers an integrated perspective on how synaptic changes shape behavior and influence neurological and psychiatric conditions. Topics include long-term potentiation, synaptic remodeling, neurotransmitter systems, network-level plasticity, and emerging therapies targeting synaptic function. Designed for neuroscientists, clinicians, and advanced students, the book is divided into three parts: 1. Mechanisms of Synaptic Plasticity and Dysfunction; 2. Therapeutic Modulation of Plasticity; 3. Synaptic Plasticity in Specific Systems and Conditions. Whether you are conducting research, treating patients, or teaching the next generation of scientists, this book offers a comprehensive yet accessible resource on one of neuroscience's most dynamic fields. The book will help you understand how the brain changes, explore the foundations of neuroplasticity, and apply this knowledge to clinical care.

New Aspects in Analyzing the Synaptic Organization of the Brain Joachim H.R. Lübke, Astrid Rollenhagen, 2024-08-27. This volume looks at the latest methodological developments used in the field to investigate the synaptic organization of the brain from different viewpoints, including structural, functional, molecular, and computational methods. The chapters in this book are organized into five parts and cover topics such as preparation of brain tissue and techniques, connectivity, synaptic vesicles, phenomenological modeling, and dendritic spines. In the Neuromethods series style, chapters include the kind of detail and key advice from the specialists needed to get successful results in your laboratory. Authoritative and thorough, *New Aspects in Analyzing the Synaptic Organization of the Brain* is a valuable resource that will help students, post-docs, and even expert researchers learn more about the discipline of cellular and synaptic neuroscience.

Form Versus Function: Theory and Models for Neuronal Substrates Mihai Alexandru Petrovici, 2016-07-19. This thesis addresses one of the most fundamental challenges for modern science: how can the brain, as a network of neurons, process information, how can it create and store internal models of our world, and how can it infer conclusions from ambiguous data? The author addresses these questions with the rigorous language of mathematics and theoretical physics, an approach that requires a high degree of abstraction to transfer results of wet-lab biology to formal models. The thesis starts with an in-depth description of the state of the art in theoretical neuroscience, which it subsequently uses as a basis to develop several new and original ideas. Throughout the text, the author connects the form and function of neuronal networks. This is done in order to achieve functional performance of biological brains by transferring their form to synthetic electronics substrates, an approach referred to as neuromorphic.

computing The obvious aspect that this transfer can never be perfect but necessarily leads to performance differences is substantiated and explored in detail The author also introduces a novel interpretation of the firing activity of neurons He proposes a probabilistic interpretation of this activity and shows by means of formal derivations that stochastic neurons can sample from internally stored probability distributions This is corroborated by the author's recent findings which confirm that biological features like the high conductance state of networks enable this mechanism The author goes on to show that neural sampling can be implemented on synthetic neuromorphic circuits paving the way for future applications in machine learning and cognitive computing for example as energy efficient implementations of deep learning networks The thesis offers an essential resource for newcomers to the field and an inspiration for scientists working in theoretical neuroscience and the future of computing

Computational Neuroscience, 2014-02-18 Progress in Molecular Biology and Translational Science provides a forum for discussion of new discoveries approaches and ideas in molecular biology It contains contributions from leaders in their fields and abundant references This volume brings together different aspects of and approaches to molecular and multi scale modeling with applications to a diverse range of neurological diseases Mathematical and computational modeling offers a powerful approach for examining the interaction between molecular pathways and ionic channels in producing neuron electrical activity It is well accepted that non linear interactions among diverse ionic channels can produce unexpected neuron behavior and hinder a deep understanding of how ion channel mutations bring about abnormal behavior and disease Interactions with the diverse signaling pathways activated by G protein coupled receptors or calcium influx adds an additional level of complexity Modeling is an approach to integrate myriad data sources into a cohesive and quantitative model in order to evaluate hypotheses about neuron function In particular a validated model developed using in vitro data allows simulations of the response to in vivo like spatio temporal patterns of synaptic input Incorporating molecular signaling pathways into an electrical model allows a greater range of models to be developed ones that can predict the response to pharmaceuticals many of which target neuromodulator pathways Contributions from leading authorities Informs and updates on all the latest developments in the field

Methods for Synaptic Interrogation Dirk Feldmeyer, John F. Wesseling, P. Jesper Sjöström, 2020-07-14 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

An Introductory Course in Computational Neuroscience Paul Miller, 2018-10-09 A textbook for students with limited background in mathematics and computer coding emphasizing computer tutorials that guide readers in producing models of neural

behavior This introductory text teaches students to understand simulate and analyze the complex behaviors of individual neurons and brain circuits It is built around computer tutorials that guide students in producing models of neural behavior with the associated Matlab code freely available online From these models students learn how individual neurons function and how when connected neurons cooperate in a circuit The book demonstrates through simulated models how oscillations multistability post stimulus rebounds and chaos can arise within either single neurons or circuits and it explores their roles in the brain The book first presents essential background in neuroscience physics mathematics and Matlab with explanations illustrated by many example problems Subsequent chapters cover the neuron and spike production single spike trains and the underlying cognitive processes conductance based models the simulation of synaptic connections firing rate models of large scale circuit operation dynamical systems and their components synaptic plasticity and techniques for analysis of neuron population datasets including principal components analysis hidden Markov modeling and Bayesian decoding Accessible to undergraduates in life sciences with limited background in mathematics and computer coding the book can be used in a flipped or inverted teaching approach with class time devoted to hands on work on the computer tutorials It can also be a resource for graduate students in the life sciences who wish to gain computing skills and a deeper knowledge of neural function and neural circuits

Emergent neural computation from the interaction of different forms of plasticity Cristina Savin, Matthieu Gilson, Friedemann Zenke, 2016-03-22 From the propagation of neural activity through synapses to the integration of signals in the dendritic arbor and the processes determining action potential generation virtually all aspects of neural processing are plastic This plasticity underlies the remarkable versatility and robustness of cortical circuits it enables the brain to learn regularities in its sensory inputs to remember the past and to recover function after injury While much of the research into learning and memory has focused on forms of Hebbian plasticity at excitatory synapses LTD LTP STDP several other plasticity mechanisms have been characterized experimentally including the plasticity of inhibitory circuits Kullmann 2012 synaptic scaling Turrigiano 2011 and intrinsic plasticity Zhang and Linden 2003 However our current understanding of the computational roles of these plasticity mechanisms remains rudimentary at best While traditionally they are assumed to serve a homeostatic purpose counterbalancing the destabilizing effects of Hebbian learning recent work suggests that they can have a profound impact on circuit function Savin 2010 Vogels 2011 Keck 2012 Hence theoretical investigation into the functional implications of these mechanisms may shed new light on the computational principles at work in neural circuits This Research Topic of Frontiers in Computational Neuroscience aims to bring together recent advances in theoretical modeling of different plasticity mechanisms and of their contributions to circuit function Topics of interest include the computational roles of plasticity of inhibitory circuitry metaplasticity synaptic scaling intrinsic plasticity plasticity within the dendritic arbor and in particular studies on the interplay between homeostatic and Hebbian plasticity and their joint contribution to network function

Thalamic Function - Beyond a Simple Relay

Vincenzo Crunelli, William Martin Connelly, W. Martin Usrey, 2016-05-20 The thalamus is often described as a relay. Typified by sensory pathways, this concept leads to thalamic nuclei being viewed as areas that passively stream information from a single source to the cortex without affecting the nature of that information. However, diverse intrathalamic connections, the varying synaptic and membrane properties of thalamic neurons, and the large number of inputs from non-sensory sources make the idea that the thalamus is just a passive relay unlikely. Furthermore, a large number of thalamic nuclei are not primarily driven by sensory signals nor do they exclusively target the cortex, meaning the thalamus must do more than simply pass sensory signals to the cortex. Finally, there is a wealth of research demonstrating that the thalamus does indeed function in ways that are not captured by the concept of a simple relay. So why, given all of this, is the primary paradigm for describing the thalamus a relay? This Research Topic covers original research, reviews, and hypotheses on thalamic function that explore the concept that the thalamus performs computational tasks other than simply passively relaying information. *Neural Computation in Embodied Closed-Loop Systems for the Generation of Complex Behavior: From Biology to Technology*

Poramate Manoonpong, Christian Tetzlaff, 2018-10-11 How can neural and morphological computations be effectively combined and realized in embodied closed-loop systems, e.g., robots, such that they can become more like living creatures in their level of performance? Understanding this will lead to new technologies and a variety of applications. To tackle this research question, here we bring together experts from different fields, including Biology, Computational Neuroscience, Robotics, and Artificial Intelligence, to share their recent findings and ideas and to update our research community. This eBook collects 17 cutting-edge research articles covering neural and morphological computations as well as the transfer of results to real-world applications like prosthesis and orthosis control and neuromorphic hardware implementation.

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