

Information transferred  
(memory consolidation)

Neocortex

Thalamus

Hippocampus

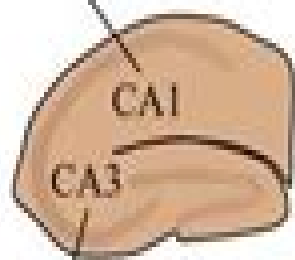
Slow Oscillation  
>1 Hz

Spindles  
12-14 Hz

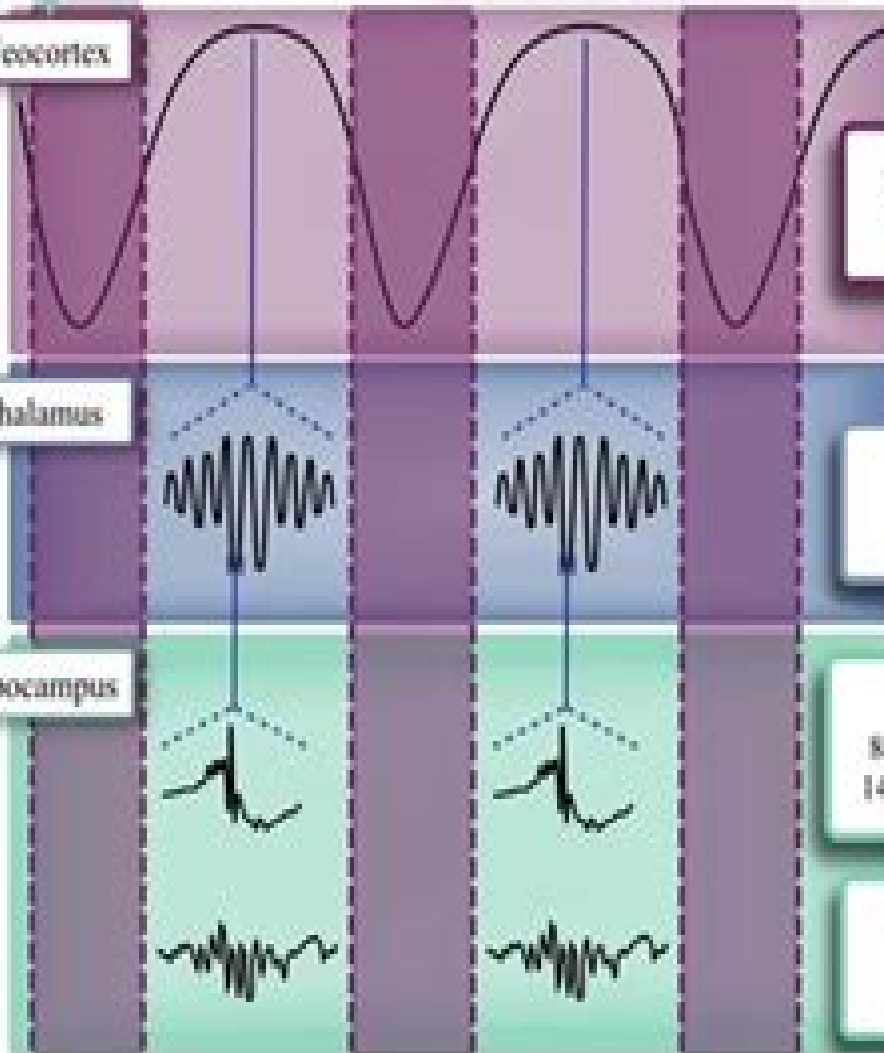
Ripples  
80 - 140 Hz (*humans*)  
140 - 200 Hz (*animals*)

Memory trace  
reactivation

2. Depolarisation instigates  
sharp-wave and ripple activity



1. CA3 excitation propagates  
via Schaffer collaterals



# Functional Memory And Brain Oscillation

**Mary Rudner, Carine Signoret**



## **Functional Memory And Brain Oscillation:**

### **Functional Aspects of Mesoscopic Brain Oscillations: Insights From in Vivo and in Vitro Studies** Gürsel

Caliskan, Sanja Mikulovic, Gabrielle Girardeau, 2022-08-01

*Brain Function and Oscillations* Erol Başar, 2012-12-06

Neuroscience is ripe for a paradigm change as Freeman and Mountcastle describe Brain Oscillations provide an important key to this change In this book the functional importance of the brain's multiple oscillations is treated with an integrative scope According to the author neurophysiology and cognition demand integrative approaches similar to those of Galilei and Newton in physics and of Darwin in biology Not only the human brain but also lower brains and ganglia of invertebrates are treated with electrophysical methods Experiments on sensory registration perception movement and cognitive processes related to attention learning and memory are described A synopsis on brain functions leads to a new neuron assemblies doctrine extending the concept of Sherrington and new trends in this field The book will appeal to scientists and graduate students

Memory and Brain Dynamics Erol Basar, 2004-06-23

Memory itself is inseparable from all other brain functions and involves distributed dynamic neural processes A wealth of publications in neuroscience literature report that the concerted action of distributed multiple oscillatory processes EEG oscillations play a major role in brain functioning The analysis of function related brain oscillation

### **Augmentation of Brain Function: Facts, Fiction and Controversy** Ioan

Opris, Manuel F. Casanova, Mikhail Lebedev, 2018-09-14

The Volume II is entitled Neurostimulation and pharmacological approaches This volume describes augmentation approaches where improvements in brain functions are achieved by modulation of brain circuits with electrical or optical stimulation or pharmacological agents Activation of brain circuits with electrical currents is a conventional approach that includes such methods as i intracortical microstimulation ICMS ii transcranial direct current stimulation tDCS and iii transcranial magnetic stimulation TMS tDCS and TMS are often regarded as noninvasive methods Yet they may induce long lasting plastic changes in the brain This is why some authors consider the term noninvasive misleading when used to describe these and other techniques such as stimulation with transcranial lasers The volume further discusses the potential of neurostimulation as a research tool in the studies of perception cognition and behavior Additionally a notion is expressed that brain augmentation with stimulation cannot be described as a net zero sum proposition where brain resources are reallocated in such a way that gains in one function are balanced by costs elsewhere In recent years optogenetic methods have received an increased attention and several articles in Volume II cover different aspects of this technique While new optogenetic methods are being developed the classical electrical stimulation has already been utilized in many clinically relevant applications like the vestibular implant and tactile neuroprosthesis that utilizes ICMS As a peculiar usage of neurostimulation and pharmacological methods Volume II includes several articles on augmented memory Memory prostheses are a popular recent development in the stimulation based BMIs For example in a hippocampal memory prosthesis memory content is extracted from hippocampal activity using a multiple input multiple output non linear

dynamical model As to the pharmacological approaches to augmenting memory and cognition the pros and cons of using nootropic drugs are discussed *Spatial Navigation: Memory Mechanisms and Executive Function Interactions* Thackery I. Brown, Elizabeth R. Chrastil, 2019-10-09 **Augmentation of Brain Function: Facts, Fiction and Controversy** Mikhail Lebedev, Ioan Opris, Manuel F. Casanova, 2018-09-14 Volume I entitled Augmentation of Brain Functions Brain Machine Interfaces is a collection of articles on neuroprosthetic technologies that utilize brain machine interfaces BMIs BMIs strive to augment the brain by linking neural activity recorded invasively or noninvasively to external devices such as arm prostheses exoskeletons that enable bipedal walking means of communication and technologies that augment attention In addition to many practical applications BMIs provide useful research tools for basic science Several articles cover challenges and controversies in this rapidly developing field such as ways to improve information transfer rate BMIs can be applied to the awake state of the brain and to the sleep state as well BMIs can augment action planning and decision making Importantly BMI operations evoke brain plasticity which can have long lasting effects Advanced neural decoding algorithms that utilize optimal feedback controllers are key to the BMI performance BMI approach can be combined with the other augmentation methods such systems are called hybrid BMIs Overall it appears that BMI will lead to many powerful and practical brain augmenting technologies in the future **Event-Related Dynamics of Brain Oscillations** Christa Neuper, Wolfgang Klimesch, 2006-12-03 Research on brain oscillations and event related electroencephalography EEG and event related desynchronization ERD ERS in particular became a rapidly growing field in the last decades A large number of laboratories worldwide are using ERD ERS to study cognitive and motor brain function and the importance of this tool in neurocognitive research is widely recognized This book is a summary of the most current research methods and applications of the study of event related dynamics of brain oscillations Facing the rapid progress in this field it brings together on the one side fundamental questions of the underlying events which still remain to be clarified and on the other side some of the most significant novel findings which point to the key topics for future research In particular the chapters of this volume cover the neurophysiological fundamentals and models Section I new methodological approaches Section II current ERD research related to cognitive Section III and sensorimotor brain function Section IV invasive approaches and clinical applications Section V and novel developments of EEG based brain computer interfaces and neurofeedback Section IV Sleep, Neuronal Plasticity and Brain Function Peter Meerlo, Ruth M. Benca, Ted Abel, 2015-05-18 This book reviews current knowledge on the importance of sleep for brain function from molecular mechanisms to behavioral output with special emphasis on the question of how sleep and sleep loss ultimately affect cognition and mood It provides an extensive overview of the latest insights in the role of sleep in regulating gene expression synaptic plasticity and neurogenesis and how that in turn is linked to learning and memory processes In addition readers will learn about the potential clinical implications of insufficient sleep and discover how chronically restricted or disrupted sleep may contribute to age related cognitive decline

and the development of psychiatric disorders such as schizophrenia and depression The book consists of 19 chapters written by experts in basic sleep research and sleep medicine which together cover a wide range of topics on the importance of sleep and consequences of sleep disruption This book will be of interest to students researchers and clinicians with a general interest in brain function or a specific interest in sleep

Augmentation of Brain Function: Facts, Fiction and Controversy  
Manuel F. Casanova, Mikhail Lebedev, Ioan Opris ,2018-09-14

The final volume in this tripartite series on Brain Augmentation is entitled From Clinical Applications to Ethical Issues and Futuristic Ideas Many of the articles within this volume deal with translational efforts taking the results of experiments on laboratory animals and applying them to humans In many cases these interventions are intended to help people with disabilities in such a way so as to either restore or extend brain function Traditionally therapies in brain augmentation have included electrical and pharmacological techniques In contrast some of the techniques discussed in this volume add specificity by targeting select neural populations This approach opens the door to where and how to promote the best interventions Along the way results have empowered the medical profession by expanding their understanding of brain function Articles in this volume relate novel clinical solutions for a host of neurological and psychiatric conditions such as stroke Parkinson s disease Huntington s disease epilepsy dementia Alzheimer s disease autism spectrum disorders ASD traumatic brain injury and disorders of consciousness In disease symptoms and signs denote a departure from normal function Brain augmentation has now been used to target both the core symptoms that provide specificity in the diagnosis of a disease as well as other constitutional symptoms that may greatly handicap the individual The volume provides a report on the use of repetitive transcranial magnetic stimulation rTMS in ASD with reported improvements of core deficits i e executive functions TMS in this regard departs from the present day trend towards symptomatic treatment that leaves unaltered the root cause of the condition In diseases such as schizophrenia brain augmentation approaches hold promise to avoid lengthy pharmacological interventions that are usually riddled with side effects or those with limiting returns as in the case of Parkinson s disease Brain stimulation can also be used to treat auditory verbal hallucination visuospatial hemispatial neglect and pain in patients suffering from multiple sclerosis The brain acts as a telecommunication transceiver wherein different bandwidth of frequencies brainwave oscillations transmit information Their baseline levels correlate with certain behavioral states The proper integration of brain oscillations provides for the phenomenon of binding and central coherence Brain augmentation may foster the normalization of brain oscillations in nervous system disorders These techniques hold the promise of being applied remotely under the supervision of medical personnel thus overcoming the obstacle of travel in order to obtain healthcare At present traditional thinking would argue the possibility of synergism among different modalities of brain augmentation as a way of increasing their overall effectiveness and improving therapeutic selectivity Thinking outside of the box would also provide for the implementation of brain to brain interfaces where techniques proper to artificial intelligence could allow us to surpass the limits of natural

selection or enable communications between several individual brains sharing memories or even a global brain capable of self organization Not all brains are created equal Brain stimulation studies suggest large individual variability in response that may affect overall recovery treatment or modify desired effects of a given intervention The subject's age gender hormonal levels may affect an individual's cortical excitability In addition this volume discusses the role of social interactions in the operations of augmenting technologies Finally augmenting methods could be applied to modulate consciousness even though its neural mechanisms are poorly understood Finally this volume should be taken as a debate on social moral and ethical issues on neurotechnologies Brain enhancement may transform the individual into someone or something else These techniques bypass the usual routes of accommodation to environmental exigencies that exalted our personal fortitude learning exercising and diet This will allow humans to preselect desired characteristics and realize consequent rewards without having to overcome adversity through more laborious means The concern is that humans may be playing God and the possibility of an expanding gap in social equity where brain enhancements may be selectively available to the wealthier individuals These issues are discussed by a number of articles in this volume Also discussed are the relationship between the diminishment and enhancement following the application of brain augmenting technologies the problem of mind control with BMI technologies free will the duty to use cognitive enhancers in high responsibility professions determining the population of people in need of brain enhancement informed public policy cognitive biases and the hype caused by the development of brain augmenting approaches

**High-Frequency Oscillations in the Hippocampus as Biomarkers of Pathology and Healthy Brain Function** Johannes Sarntinoran, Julia Jacobs, Maeike Zijlmans, 2021-11-23 **Music Training, Neural Plasticity, and Executive Function** Claude Alain, Assal Habibi, Paul J. Colombo, 2020-10-08

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Neurostimulation: Exploring Perceptual & Cognitive Enhancement Adam Joseph Toth, Mark J. Campbell, Adam Bruton, 2025-08-06 Research investigating the use of electrical or magnetic stimuli to alter the electrophysiology of the central and peripheral nervous systems has flourished in recent years The popularity of these techniques largely stems from their ability to create temporary lesions or enhancements in nervous system function To date a plethora of literature has emerged examining the role of neurostimulation for augmenting motor function due to the relative ease of objectively quantifying changes in behavior performance and even motor evoked potential amplitudes within individual muscles However the role of neurostimulation in enhancing perceptual and cognitive abilities is under examined and is an area that is

now continually gaining research attention Evaluating the role of various forms of neurostimulation on cognitive and perceptual abilities can be challenging due to the lack of control over the underlying neural activity in the central nervous system and the sensitivity with which current measurement tools and tasks quantify cognitive and perceptual functioning This research topic aims to facilitate the publication of high quality methodologically sound research that addresses the quantification and effect that various forms of neurostimulation have on cognitive and perceptual processes across the lifespan In doing so we endeavor to help advance the field of neurostimulation with respect to robustly mapping the effect of neurostimulation on cognitive and perceptual performance

The Cognitive Neurosciences, sixth edition David Poeppel, George R. Mangun, Michael S. Gazzaniga, 2020-04-21 The sixth edition of the foundational reference on cognitive neuroscience with entirely new material that covers the latest research experimental approaches and measurement methodologies Each edition of this classic reference has proved to be a benchmark in the developing field of cognitive neuroscience The sixth edition of The Cognitive Neurosciences continues to chart new directions in the study of the biological underpinnings of complex cognition the relationship between the structural and physiological mechanisms of the nervous system and the psychological reality of the mind It offers entirely new material reflecting recent advances in the field covering the latest research experimental approaches and measurement methodologies This sixth edition treats such foundational topics as memory attention and language as well as other areas including computational models of cognition reward and decision making social neuroscience scientific ethics and methods advances Over the last twenty five years the cognitive neurosciences have seen the development of sophisticated tools and methods including computational approaches that generate enormous data sets This volume deploys these exciting new instruments but also emphasizes the value of theory behavior observation and other time tested scientific habits Section editors Sarah Jayne Blakemore and Ulman Lindenberger Kalanit Grill Spector and Maria Chait Tom s Ryan and Charan Ranganath Sabine Kastner and Steven Luck Stanislas Dehaene and Josh McDermott Rich Ivry and John Krakauer Daphna Shohamy and Wolfram Schultz Danielle Bassett and Nikolaus Kriegeskorte Marina Bedny and Alfonso Caramazza Liina Pylkk nen and Karen Emmorey Mauricio Delgado and Elizabeth Phelps Anjan Chatterjee and Adina Roskies

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 streams 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

### **The Role of Working Memory and Executive Function in Communication under Adverse Conditions** Mary Rudner,Carine

Signoret,2016-06-20 Communication is vital for social participation However communication often takes place under suboptimal conditions This makes communication harder and less reliable leading at worst to social isolation In order to promote participation it is necessary to understand the mechanisms underlying communication in different situations Human communication is often speech based either oral or written but may also involve gesture either accompanying speech or in the form of sign language For communication to be achieved a signal generated by one person has to be perceived by another person attended to comprehended and responded to This process may be hindered by adverse conditions including factors that may be internal to the sender e g incomplete or idiosyncratic language production occur during transmission e g background noise or signal processing or be internal to the receiver e g poor grasp of the language or sensory impairment The extent to which these factors interact to generate adverse conditions may differ across the lifespan Recent work has shown that successful speech communication under adverse conditions is associated with good cognitive capacity including efficient working memory and executive abilities such as updating and inhibition Further frontoparietal networks associated with working memory and executive function have been shown to be activated to a greater degree when it is harder to achieve speech comprehension To date less work has focused on sign language communication under adverse conditions or the role of gestures accompanying speech communication under adverse conditions It has been proposed that the role of working memory in communication under such conditions is to keep fragments of an incomplete signal in mind updating them as appropriate and inhibiting irrelevant information until an adequate match can be achieved with lexical and semantic representations held in long term memory Recent models of working memory highlight an episodic buffer whose role is the multimodal integration of information from the senses and long term memory It is likely that the episodic buffer plays a key role in communication under adverse conditions The aim of this research topic is to draw together multiple perspectives on communication under adverse conditions including empirical and theoretical approaches This will facilitate a scientific exchange among individual scientists and groups studying different aspects of communication under adverse conditions and or the role of cognition in communication As such this topic belongs firmly within the field of Cognitive Hearing Science Exchange of ideas among scientists with different perspectives on these issues will allow researchers to identify and highlight the way in which different internal and external factors interact to make communication in different modalities more or less successful across the lifespan Such exchange is the forerunner of broader dissemination of results which ultimately may make it possible to take measures to reduce adverse conditions thus facilitating communication Such



measures might be implemented in relation to the built environment the design of hearing aids and public awareness

**The Oxford Handbook of Human Memory, Two Volume Pack** Michael J. Kahana, Anthony D. Wagner, 2024 The Oxford Handbook of Human Memory provides an authoritative overview of the science of human memory its application to clinical disorders and its broader implications for learning and memory in real world contexts Organized into two volumes and eleven sections the Handbook integrates behavioral neural and computational evidence with current theories of how we learn and remember Overall The Oxford Handbook of Human Memory documents the current state of knowledge in the field and provides a roadmap for the next generation of memory scientists established peers and practitioners Brain

Oscillations and Predictive Coding: What We Know and What We Should Learn Roumen Kirov, 2017-04-28 Predictive coding PC is a neurocognitive concept according to which the brain does not process the whole qualia of external information but only residual mismatches occurring between incoming information and an individual inner model of the world At the time of issue initiation I expected an essential focus on mismatch signals in the brain especially those captured by neurophysiologic oscillations This was because one most plausible approach to the PC concept is to identify and validate mismatch signals in the brain Announcing the topic revealed a much deeper consideration of intelligible minds of researchers It turned out that what was of fundamental interest was which brain mechanisms support the formation maintenance and consolidation of the inner model determining PC Is PC a dynamic construct continuously modulated by external environmental or internal mental information The reader will be delighted to get acquainted with the current views and understanding of eminent scholars in the field It will be challenging to discover the realm of sleep where both physiological energy preserving and mental qualia principles build on the inner models to shape and transform the self And where neurophysiologic oscillations may both transmit external information and translate inner models from state to state to preserve the self continuity and compactness

Oscillatory brain activity as a marker of brain function and dysfunction in aging and in neurodegenerative disorders Aneta Kielar, Priyanka Shah-Basak, Lars Meyer, Takako Fujioka, 2023-03-20 *Brain-Body-Mind in the Nebulous Cartesian System: A Holistic Approach by Oscillations* Erol Başar, 2010-12-06 Brain Body Mind in the Nebulous Cartesian System A Holistic Approach by Oscillations is a research monograph with didactical features on the mechanisms of the mind encompassing a wide spectrum of results and analyses The book should appeal to scientists and graduate students in the fields of neuroscience neurology psychiatry physiology psychology physics and philosophy Its goals are the development of an empirical analytical construct denoted as Reasonings to Approach the Mind and the comprehension of 20 principles for understanding the mind This book amalgamates results from work on the brain vegetative system brains in the evolution of species the maturing brain dynamic memory emotional processes and cognitive impairment in neuro psychiatric disorders Alzheimer Schizophrenia Bipolar disorders The findings are comparatively evaluated within the framework of brain oscillations and neurotransmitters Further a holistic approach links the brain to the cardiovascular system and overall

myogenic coordination of the vegetative system The results emphasize that EEG oscillations ultraslow oscillations and neurotransmitters are quasi invariant building blocks in brain body mind function and also during the evolution of species The temporal domain is where the importance of research on neural oscillators is indispensable The core holistic concept that emerges is that the brain spinal cord overall myogenic system brain body oscillations and neurotransmitters form a functional syncytium Accordingly the concept of Syncytium Brain Body Mind replaces the concept of Mind P **Memory and motivational/emotional processes** Antonella Gasbarri, Carlos Tomaz, It is well established that memory for emotional information is generally better than for neutral information This Research Topic comprises a set of papers focusing on memory and its relation with motivational and emotional processes ranging from electroencephalographic evidences of emotional modulation of memory systems to the role of neurotransmitters neuromodulators i e endocannabinoid glucocorticoid serotonin noradrenergic dopaminergic systems and second messengers on emotional memory and the specific involvement of cerebral areas on the relation between memory and motivational emotional processes i e prefrontal cortex amygdala accumbens In particular some of the topics discussed in this Research Topic will include cortical activity correlates of emotional modulation of memory systems interactions between ascending vagal fibers and central noradrenergic systems in modulating memory for emotionally arousing events involvement of prefrontal accumbal catecholamine system in processing emotional and motivational salience role of both negative and positive emotional arousal in increasing persistence of consolidated memories through modulation of second messengers and the involvement of emotional arousal in the activation of amygdala projections that can then modulate different types of memory

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