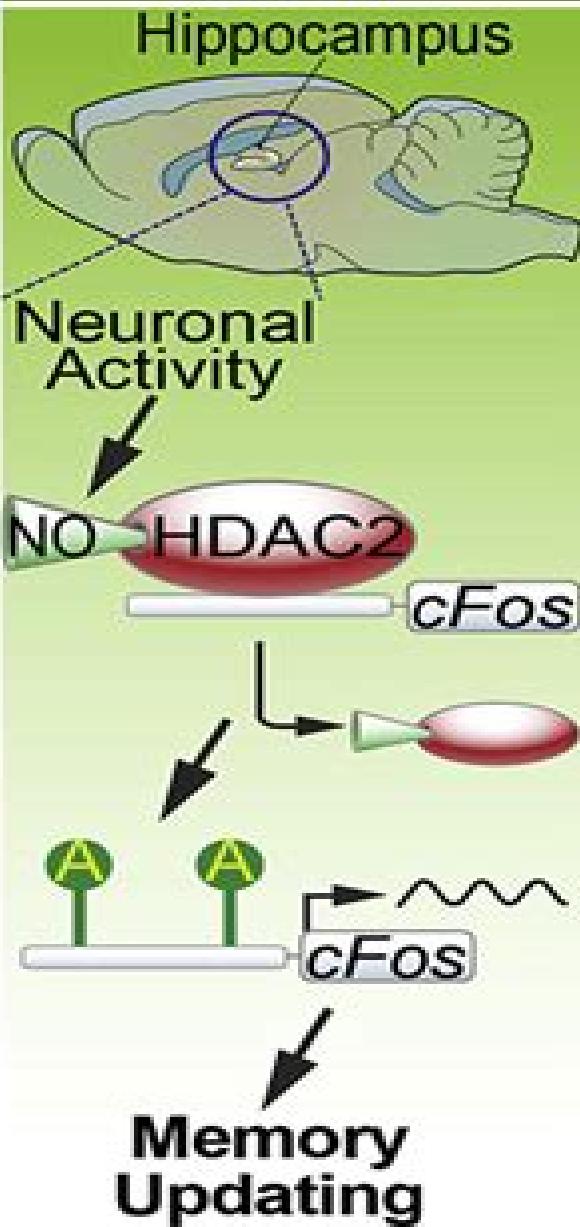
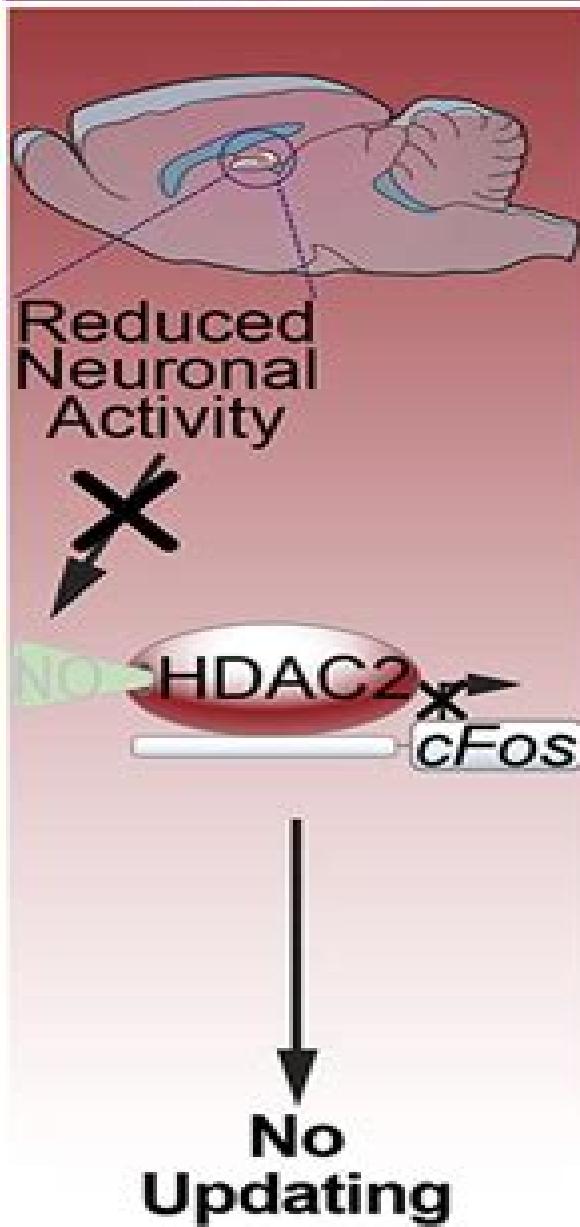


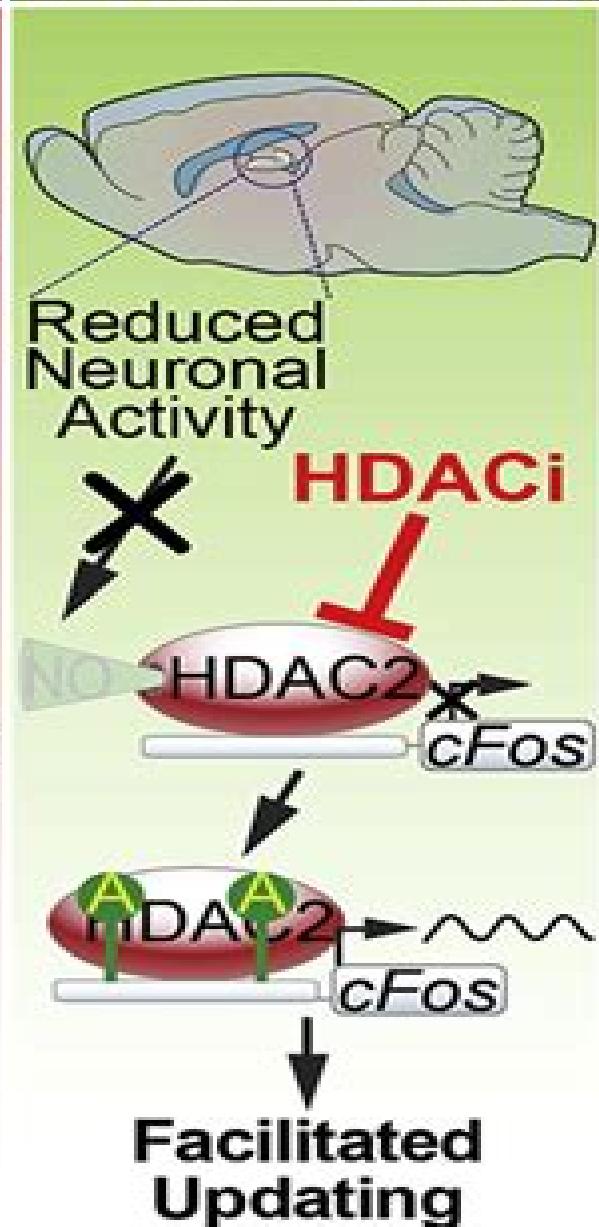
Recent memory recall



Remote memory recall



Remote memory recall + HDACi



Memory Reconsolidation

**Tania L Roth, David M
Diamond, Karestan C Koenen**

Memory Reconsolidation:

Memory Reconsolidation Cristina M. Alberini, Sarah A. Johnson, Xiaojing Ye, 2013-03-18 The rediscovery of memory reconsolidation has brought the attention of many investigators to this field because the findings that a stabilized memory can return to a labile state have changed the way we view long term memory formation and storage. Furthermore, it has provided important information for potentially developing novel therapeutic interventions for psychopathologies as well as cognitive impairments. As with all discoveries that change previous beliefs, many conclusions and interpretations about the novel data have been subjected to a great deal of debates and controversies. However, the studies on memory reconsolidation have undoubtedly led to the understanding that the processes of memory formation and storage are exquisitely dynamic. Elucidating the mechanisms and temporal dynamics of the biological changes that accompany memory encoding, storage, and retrieval is key to understanding many brain functions. In this chapter, we summarize studies from our laboratory that investigated the mechanisms and functions of memory reconsolidation using the inhibitory avoidance task in rats. Based on the results of these studies, we propose the conclusions that memory reconsolidation contributes to a lingering consolidation process and that memory is a highly dynamic process. We then discuss how we can use the knowledge acquired about memory reconsolidation to develop new therapies for weakening maladaptive memories and enhancing memories to combat cognitive decline.

Memory Reconsolidation Cristina M. Alberini, 2013-03-18 As little as 10 years ago, it was believed that memory went from short to long term via one consolidation practice that made that memory intractable. Since then, research has shown that long term memories can be activated, modified, and reconsolidated in their new form. This research indicates that memories are more dynamic than once believed. And, understanding how this process works and helping people to redefine established memories can be clinically useful if those memories lead to problems, as is the case in post-traumatic stress disorder. This book provides a comprehensive overview of research on memory reconsolidation, what this has to say about the formation, storage, and changeability of memory, and the potential applications of this research to treating clinical disorders. Presents both neuroscience and psychological research on memory reconsolidation. Discusses what findings mean for understanding memory formation, storage, and retrieval. Includes treatment applications of these findings.

Memory Reconsolidation Elizabeth A. Phelps, Daniela Schiller, 2013-03-18 This chapter provides a comprehensive review of research on reconsolidation in humans to date. It examines the different techniques that have been used to explore memory reconsolidation in humans and highlights some of the unique challenges that arise when investigating reconsolidation in human participants. Through this survey of existing studies, we explore some of the reasons why this science has been slow to emerge and we suggest some potential avenues for future research.

Memory Reconsolidation Michelle H. Lonergan, Alain Brunet, Lening A. Olivera-Figueroa, Roger K. Pitman, 2013-03-18 Background: Considering the pivotal role of negative emotional experiences in the development and persistence of mental disorders, effectively interfering with the consolidation

reconsolidation of such experiences would open the door to a novel treatment approach in psychiatry Objective We assessed the current evidence regarding the capacity of the blocker propranolol to block the consolidation reconsolidation of emotional memories by means of a meta analytic review Data sources An extensive multilingual literature search from 1994 to 2011 yielded 189 potential articles Study selection Selected studies consisted of randomized double blind experiments assessing long term memory for emotional material in adults and involving at least one propranolol and one placebo condition Of 189 potential studies 13 consolidation n 310 and 9 reconsolidation n 327 experiments with adults met inclusion criteria for statistical analysis Data extraction Two independent reviewers extracted outcome and descriptive data from each study Effect sizes were calculated using a random effects model Data synthesis Compared to placebo propranolol given before memory consolidation reduced subsequent recall for negatively valenced stories pictures word lists and the expression of cue elicited fear responses Hedge s_g 0.47 95% CI 0.22 0.72 Moreover compared to placebo propranolol before memory reconsolidation reduced subsequent recall for negatively valenced emotional words as well as the expression of cue elicited fear responses g 0.59 95% CI 0.16 1.01 Splitting the results according to episodic retention and physiological responding did not yield a significant difference in effect size for consolidation or reconsolidation blockade Removing the clinical studies from the larger group of nonclinical studies did not impact the statistical significance of the results either Conclusions Propranolol shows promise in reducing subsequent memory for new or recalled emotional material in healthy subjects Studies of clinical populations however have yet to independently demonstrate that such findings can translate into powerful clinical effects

Memory Reconsolidation Cristina M. Alberini, 2013 As little as ten years ago it was believed that memory went from short to long term via one consolidation practice that made that memory intractable Since then research has shown that long term memories can be activated modified and reconsolidated in their new form This research indicates that memories are more dynamic than once believed And understanding how this process works and helping people to redefine established memories can be clinically useful if those memories lead to problems as is the case in post traumatic stress disorder This book provides a comprehensive overview of research on memory reconsolidation what this has to say about the formation storage and changeability of memory and the potential applications of this research to treating clinical disorders Presents both neuroscience and psychological research on memory reconsolidation Discusses what findings mean for understanding memory formation storage and retrieval Includes treatment applications of these findings

Memory Reconsolidation Cristina M. Alberini, Francois Ansermet, Pierre Magistretti, 2013-03-18 Memory traces can become labile when retrieved This has intrigued not only neuroscientists psychologists and cognitive scientists but also clinicians who work with memories to treat psychopathologies such as psychotherapists and psychoanalysts Psychotherapists and psychoanalysts question whether the treatments based on re evoking memories engage reconsolidation and how treatments may work and be effective with reconsolidation processes However reconsolidation may not easily occur in older or very strong

consolidated memories which are in fact those deeply rooted in most maladaptive behaviors and most animal reconsolidation studies have been done on memories that are only days old. Hence the questions deepen into many more complex layers asking the following: How are memories formed and retrieved and in part become unconscious? How does retrieval in a therapeutic setting change those traces? Here we propose some hypotheses based on neuroscientific knowledge to begin explaining the bases of Freudian unconscious and speculate on how memory traces and Freudian unconscious intersect.

Memory Reconsolidation Jonathan L.C. Lee, 2013-03-18. Memory reconsolidation is the process that serves to restabilize a memory that has been destabilized through memory retrieval. This retrieval induced plasticity has been extensively studied in the hippocampus among other neural loci. A focus on hippocampal memory reconsolidation for contextual fear pure contextual and spatial memories reveals interesting constraints on when a retrieved memory undergoes reconsolidation. Moreover, the emergence of dissociable mechanisms of hippocampal contextual fear memory consolidation and reconsolidation has allowed the demonstration that reconsolidation serves to update both the strength and the content of hippocampal memories. This provides compelling evidence that at least in the hippocampus reconsolidation exists in order to modify memories. However, whether or not these hippocampal findings can be generalized to nonhippocampal memories remains to be determined.

Cognitive Sciences at the Leading Edge Miao-Kun Sun, 2008. This new book focuses on new research on cognitive science which is most simply defined as the scientific study either of mind or of intelligence. It is an interdisciplinary study drawing from relevant fields including psychology, philosophy, neuroscience, linguistics, anthropology, computer science, biology and physics. There are several approaches to the study of cognitive science. These approaches may be classified broadly as symbolic, connectionist and dynamic systems. Symbolic holds that cognition can be explained using operations on symbols by means of explicit computational theories and models of mental but not brain processes analogous to the workings of a digital computer. Connectionist subsymbolic holds that cognition can only be modelled and explained by using artificial neural networks on the level of physical brain properties. Hybrid systems holds that cognition is best modelled using both connectionist and symbolic models and possibly other computational techniques.

Epigenetic pathways in PTSD: how traumatic experiences leave their signature on the genome Tania L Roth, David M Diamond, Karestan C Koenen, 2015-04-14. This research topic focuses on epigenetic components of PTSD. Epigenetic mechanisms are a class of molecular mechanisms by which environmental influences including stress can interact with the genome to have long term consequences for brain plasticity and behavior. Articles herein include empirical reports and reviews that link stress and trauma with epigenetic alterations in humans and animal models of early or later life stress. Themes present throughout the collection include: DNA methylation is a useful biomarker of stress and treatment outcome in humans; epigenetic programming of stress sensitive physiological systems early in development confers an enhanced risk on disease development upon re exposure to trauma or stress; and long lived fear memories are associated with epigenetic alterations in

fear memory and extinction brain circuitry

Neurological Functions of the Masterswitch Protein Kinase - GSK-3

Oksana Kaidanovich-Beilin, Jean-Martin Beaulieu, Richard S. Jope, Jim R. Woodgett, The functions of the brain that allow us to think feel move and perceive the world are the result of an exchange of information within a network composed of millions of specialized cells called neurons and glia. Neurons use neurotransmitters and other extracellular messengers to communicate with each other and to constantly update and reorganize their network of connections in a process known as neural plasticity. In order to respond to these extracellular signals, neurons are equipped with specialized receptors that can recognize a single neurotransmitter a bit like a lock would recognize a key. They do this by activating or inhibiting a class of specialized signaling proteins and second messengers. Typically, signaling proteins are themselves organized in networks or pathways in which they activate or inhibit each other in order to integrate the mass of information received by a single cell and to regulate the biological functions of this cell. As we can see, rather than simply being a network of neurons, the brain can be seen as a sort of Russian doll in which each neuron is at the same time a part of networks with other neurons and the receptacle of many networks composed of signaling proteins. Two individual genes encode two paralogous signaling proteins: Glycogen Synthase Kinase 3 alpha and beta (GSK 3 α and GSK 3 β), named for its ability to phosphorylate a key metabolic enzyme of glycogen synthesis, glycogen synthase. This unique glamour and gloom protein kinase has been intriguing many researchers for over 30 years by its unusual features, still unknown mechanisms of its activation, its regulation by multiple key intracellular pathways and its capacity to influence the functions of many substrates. Since GSK 3 was discovered, there has been significant progress in elucidating its regulatory roles in the neuron and the structure and functions of the brain. Lithium has been used as a gold standard in the treatment of bipolar disorder for 60 years and GSK 3's renaissance in psychiatry began with the discovery of GSK 3 as lithium's intracellular target. Since then, GSK3 has been implicated in the pathogenesis of mood disorders, schizophrenia, Alzheimer's disease, ADHD, multiple sclerosis, Fragile X syndrome, and Huntington disease. Connections to these and other diseases have led over the last 10 years to the generation of multiple types of GSK 3 inhibitors as promising therapeutic treatments for the aforementioned pathological conditions. During the last couple of years, new genetic models have been generated, including conventional and conditional mouse models, allowing the discovery of new roles of GSK 3 in the mechanism of neurotransmitter action, neurodevelopment, learning and memory formation. GSK 3's gene effect on mouse behavior and other functions. Thus, GSK 3 has been well established as an intracellular second messenger for several neurotransmitter systems and as an important therapeutic target of mood stabilizers, antipsychotics, and psychomimetic drugs. The proposed Specific Topic for Frontiers in Neuroscience will be focused on the latest advances from leading laboratories in this area, subdivided into 5 topics: 1) GSK 3 history, mechanism of regulation, substrate specificity and comparison between the brain function of two GSK 3 genes through new animal models and cell biology approaches; 2) role of GSK 3 in neurodevelopment and neuronal structure; 3) involvement of GSK 3 in synaptic functions, learning and

memory and in serotonin and dopamine pathways 4 role of GSK 3 in neuroinflammation and application to the pathogenesis of multiple sclerosis AD schizophrenia Fragile X brain tumors stroke and bipolar disorder 5 development of GSK 3 inhibitors and their application in psychiatry including special discussion about the mechanism of lithium action **Memory**

Reconsolidation María Eugenia Pedreira,2013-03-18 The idea that memories are immutable after consolidation has been challenged The reconsolidation process offers the possibility of modifying previously stored information This process has been described in different animal models and in human memory paradigms This chapter revisits findings obtained with a declarative memory paradigm developed in our laboratory Our research demonstrates the existence of the reconsolidation process for declarative memory characterizes its boundary conditions and studies its functions The study of this process in a memory type that is a hallmark of humans supports the idea that some mechanisms are conserved across evolution Moreover this profound description of the features of reconsolidation affords the opportunity to apply our current knowledge to the development of new therapies for traumatic memories with the goal of modifying undesirable memories **Memory**

Reconsolidation Karim Nader,2013-03-18 Research on reconsolidation has demonstrated that consolidated memories may again enter states of transient instability following reactivation from which they must restabilize in order to persist contradicting the previously dominant view describing memory and its associated plasticity mechanisms as progressively and irreversibly declining with time We are now witness to an exciting time as diverse fields begin embracing a position long held in cognitive psychology that recognizes memory as a principally dynamic process This chapter discusses the history of this exciting field which has been discovered twice Today there has been an explosion of research on the topic and

demonstrations of reconsolidation across species behavioral tasks and amnesic treatments **Memory Reconsolidation**

María Eugenia Pedreira,Arturo Romano,2013-03-18 The finding of memory reconsolidation in invertebrates has provided important insight into evolutionary conservation and the adaptive value of the mechanisms involved in memory reprocessing Furthermore due to the characteristics of some memory models important aspects of reconsolidation were initially found in invertebrates and were then confirmed in vertebrates In the present chapter we revisit the findings obtained using the context signal memory model in crabs These studies were performed both at the behavioral level to describe the parametrical conditions for memory labilization and reconsolidation and at the mechanistic level to describe the molecular features involved in memory reconsolidation and extinction We then review comparative studies in rodents in which the role of the molecular mechanisms described in invertebrates was evaluated in the contextual memory paradigm of fear conditioning Comparative studies in humans on the nature of the reminder for reconsolidation are described in another chapter of this book **Memory Reconsolidation** Jacek Dębiec,Joseph E. LeDoux,2013-03-18 The ability to learn about adverse events has a special significance for survival A body of work established the key role of the amygdala in acquisition consolidation and extinction of defense fear responses that protect the organism in the presence of learned threats More than a decade ago our

lab showed that exposure to a learned threat leading to the retrieval or reactivation of the memory leads to a reconsolidation re storage of the memory in the amygdala This finding reinvigorated interest in the role of memory retrieval in memory stability and change In this chapter we summarize research on the role of the amygdala in defense learning and memory and then discuss memory reconsolidation in the amygdala and its theoretical and clinical implications **Memory**

Reconsolidation Philip R. Corlett,Jane R. Taylor,2013-03-18 Memories represent a means through which we bring to bear past experience on current processing in order to respond adaptively and predict the future One process that reflects this utility is reconsolidation When memories are retrieved they sometimes return into a labile state so that they can be updated and consolidated anew This represents a potential therapeutic window for illnesses in which memory processing has gone awry that is it might be possible to render memories labile and excise the aberrant and maladaptive In this chapter we discuss this opportunity with regard to serious mental illnesses such as post traumatic stress disorder psychosis and drug addiction Although the preclinical data are promising that preclinical potential has yet to be realized We discuss some of the ethical implications of memory erasure as well as some of the practical impediments to this approach **Memory**

Reconsolidation Karim Nader,Oliver Hardt,Einar Örn Einarsson,Peter S.B. Finnie,2013-03-18 This chapter highlights the connections between research on memory reconsolidation and central ideas in memory research considering the substantial body of work produced within the neurosciences as well as cognitive psychology two fields that at the beginning of our science in the past century were not as separated as they are now We advance the basic idea that the reconsolidation phenomenon indicates that memory systems are inherently flexible based on processes that constantly adapt existing memory representations to improve behavioral performance These mechanisms are likely of meta plastic nature and they will play out on the levels of cognition and behavior We discuss possible meta plastic mechanisms that mediate reconsolidation We then briefly discuss how reconsolidation might explain certain cognitive memory malleability phenomena such as the misinformation effect and memory interference *Cognitive Neuroscience of Memory Consolidation* Nikolai

Axmacher,Björn Rasch,2017-02-09 This edited volume provides an overview the state of the art in the field of cognitive neuroscience of memory consolidation In a number of sections the editors collect contributions of leading researchers The topical focus lies on current issues of interest such as memory consolidation including working and long term memory In particular the role of sleep in relation to memory consolidation will be addressed The target audience primarily comprises research experts in the field of cognitive neuroscience but the book may also be beneficial for graduate students **Memory**

Reconsolidation Almut Hupbach,Rebecca Gomez,Lynn Nadel,2013-03-18 In contrast to the study of memory reconsolidation in animals research in humans is still in the early stages This reflects the challenge to directly target memory reconsolidation without the use of pharmacological interventions that are often not safe for humans Most studies therefore use paradigms in which new material is presented soon after memory reactivation These studies show that human memories can be modified

contingent upon their reactivation. Specifically the novel material leads to interference in the original memories. This chapter reviews research on episodic memory reconsolidation that uses this approach in an object learning paradigm. Learning a new set of objects after reactivation of a previous object set memory causes the new objects to become integrated into the reactivated memory. We present studies that assess different types of reminders and the effects of memory strength and time delays and we evaluate different theoretical accounts of our findings. Unlocking the Emotional Brain Bruce Ecker, Robin Ticic, Laurel Hulley, 2012. *Unlocking the Emotional Brain* offers psychotherapists and counselors methods at the forefront of clinical and neurobiological knowledge for creating profound change regularly in day to day practice.

Computational Explorations of Memory Consolidation, Memory Reconsolidation, and Related Phenomena Peter Helfer, 2019. The term memory consolidation is used to describe two different groups of phenomena on the one hand a family of fast intra cellular processes believed to stabilize new memory traces and on the other hand larger scale and slower processes whereby new memory traces initially hippocampus dependent are reorganized and gradually become independent of the hippocampus. To avoid confusion the former type is referred to as synaptic consolidation and the latter as systems consolidation. A related term memory reconsolidation refers to a temporary instability that memories undergo after retrieval. Like consolidation reconsolidation has also been observed at both the synaptic and the systems level. An enormous effort has been channeled into understanding these phenomena and a large volume of data has been collected. Nevertheless the underlying mechanisms are only partially understood and different explanations have been suggested for many findings. In this dissertation I present two computational models designed to investigate proposed mechanisms of memory consolidation and reconsolidation. The first model concerns mechanisms at the synaptic level and the second addresses systems consolidation and reconsolidation. Both models incorporate mechanisms inspired by recent neuroscience discoveries allowing them to capture findings not covered by previously published works. Predictions are derived from the models suggesting experiments that may test their correctness.

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