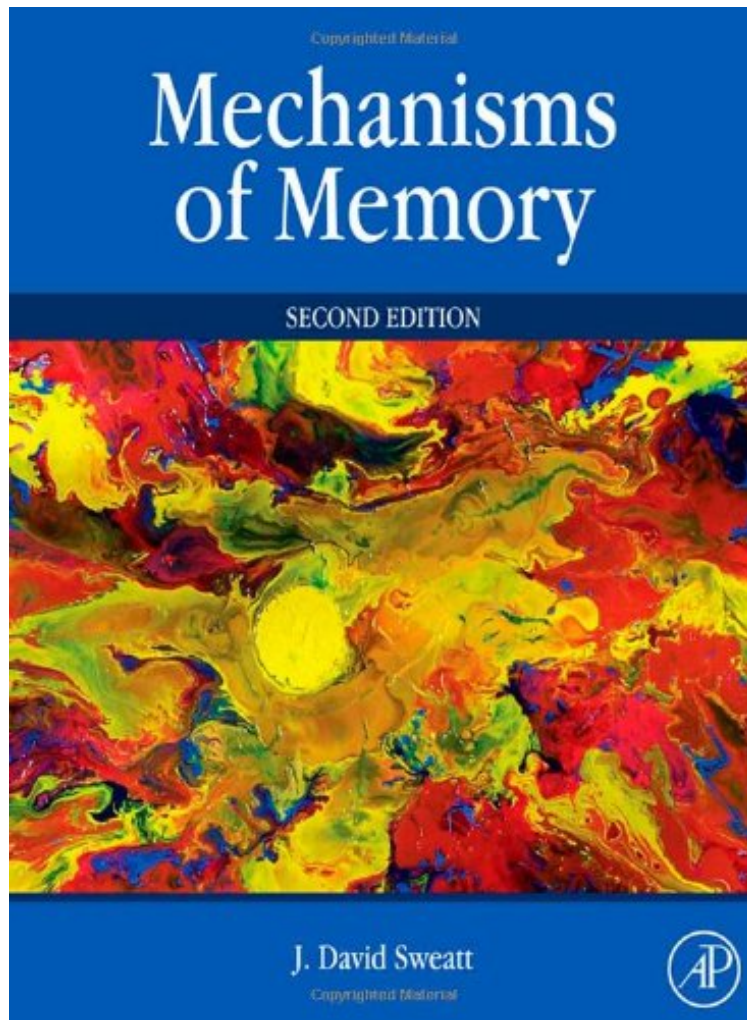


[Download] Mechanisms of Memory, Second Edition

Mechanisms of Memory, Second Edition

J. David Sweatt

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2 of 2 people found the following review helpful. Mechanisms of Memory By The Rubes Intermediate level introduction to concepts in learning and memory, and long term potentiation of the hippocampus. Written in a clear and personal style, covers many of the major topics and contributors to the field. David Sweatt is certainly a leading authority on the topic and his presentation of the varied aspects of memory research is enjoyable as it is informative. Although this edition (2003) is now superseded by the 2009 edition, the issues are still relevant - making this edition a good buy for those who wish to save money. 0 of 0 people found the following review helpful. The book meets my need. By xuefu zhong The book has been translated in Chinese. The Chinese version was published in 2012. The book

meets my need, I am now working on the subject which is related to the memory of human being.

This fully revised second edition provides the only unified synthesis of available information concerning the mechanisms of higher-order memory formation. It spans the range from learning theory, to human and animal behavioral learning models, to cellular physiology and biochemistry. It is unique in its incorporation of chapters on memory disorders, tying in these clinically important syndromes with the basic science of synaptic plasticity and memory mechanisms. It also covers cutting-edge approaches such as the use of genetically engineered animals in studies of memory and memory diseases. Written in an engaging and easily readable style and extensively illustrated with many new, full-color figures to help explain key concepts, this book demystifies the complexities of memory and deepens the readers understanding. More than 25% new content, particularly expanding the scope to include new findings in translational research. Unique in its depth of coverage of molecular and cellular mechanisms Extensive cross-referencing to Comprehensive Learning and Memory Discusses clinically relevant memory disorders in the context of modern molecular research and includes numerous practical examples

"The book is well written and includes interesting and illustrative text inserts as well as colorful figures with detailed explanations. Mechanisms of Memory is a successful integration of recent discoveries and technological advances applied to learning and memory at many different levels that will appeal to its target audience of advanced undergraduates and graduates across a number of disciplines."--AMERICAN JOURNAL OF PSYCHIATRY (November 2005, 162:11)"This is an exceptional book in more than one aspect. David Sweatt has written a monograph in which long term potentiation (LTP) is central issue. However, this book is not an endless presentation of all the numerous experiments into a context of learning and memory...the book presents a real opportunity for the advanced student, and the interested scientists, to learn more about LTP and how to put it into a perspective...The illustrations in the book are of high quality, informative and to the point. Every chapter is introduced at an abstract level, the last item I wanted to mention which makes this a special book, bringing long term reminiscences of Rothko and Pollock." - Journal of Chemical Neuroanatomy (2005)About the AuthorDavid Sweatt obtained his B.S. in Chemistry from the University of South Alabama before attending Vanderbilt University, where he was awarded a Ph.D. for studies of intracellular signaling mechanisms. He then did a post-doctoral Fellowship at the Columbia University Center for Neurobiology and Behavior, working on memory mechanisms in the laboratory of Nobel laureate Eric Kandel. From 1989 to 2006 he was a member of the Neuroscience faculty at Baylor College of Medicine in Houston, Texas, rising through the ranks there to Professor and Director of the Neuroscience Ph.D. program. Dr. Sweatts laboratory studies biochemical mechanisms of learning and memory. In addition, his research program also investigates mechanisms of learning and memory disorders, such as mental retardation and aging-related memory dysfunction. He is currently the Evelyn F. McKnight endowed Chairman of the Department of Neurobiology at UAB Medical School, and the Director of the Evelyn F. McKnight Brain Institute at the University of Alabama in Birmingham. He also is a Professor the Departments of Cell Biology, Genetics, and Psychology at UAB. Dr. Sweatt has won numerous awards and honors, including an Ellison Medical Foundation Senior Scholar Award, and election as a Fellow of the American Association for the Advancement of Science. This year he won (along with Michael Meaney and Catherine Dulac) the Ipsen Foundation International Prize in Neural Plasticity, one of the most prestigious awards in his scientific field. From 1998 until 2002 he attended drawing and painting classes at the Glassell School of Art of the Museum of Fine Arts, Houston. As an artist he explores the use of painting as a medium for expressing topics of interest in contemporary biomedical research. In 2009 he published a textbook, Mechanisms of Memory, which is illustrated with original paintings and describes current models for the molecular and cellular basis of memory formation.David Sweatt obtained his B.S. in Chemistry from the University of South Alabama before attending Vanderbilt University, where he was awarded a Ph.D. for studies of intracellular signaling mechanisms. He then did a post-doctoral Fellowship at the Columbia University Center for Neurobiology and Behavior, working on memory mechanisms in the laboratory of Nobel laureate Eric Kandel. From 1989 to 2006 he was a member of the Neuroscience faculty at Baylor College of Medicine in Houston, Texas, rising through the ranks there to Professor and Director of the Neuroscience Ph.D. program. Dr. Sweatts laboratory studies biochemical mechanisms of learning and memory. In addition, his research program also investigates mechanisms of learning and memory disorders, such as mental retardation and aging-related memory dysfunction. He is currently the Evelyn F. McKnight endowed Chairman of the Department of Neurobiology at UAB Medical School, and the Director of the Evelyn F. McKnight Brain Institute at the University of Alabama in Birmingham. He also is a Professor the Departments of Cell Biology, Genetics, and Psychology at UAB. Dr. Sweatt has won numerous awards and honors, including an Ellison Medical Foundation Senior Scholar Award, and election as a Fellow of the American Association for the Advancement of Science. This year he won (along with Michael Meaney and Catherine Dulac) the Ipsen Foundation International Prize in Neural Plasticity, one of the most prestigious awards in his scientific field. From 1998 until 2002 he attended drawing and painting classes at the Glassell School of Art of the Museum of Fine Arts, Houston. As an artist he explores the use of painting as a medium for expressing topics of interest in contemporary biomedical research. In 2009 he published a textbook, Mechanisms

of Memory, which is illustrated with original paintings and describes current models for the molecular and cellular basis of memory formation. Excerpt. Reprinted by permission. All rights reserved. Provides an overview of the cellular and molecular mechanisms involved in learning and memory.