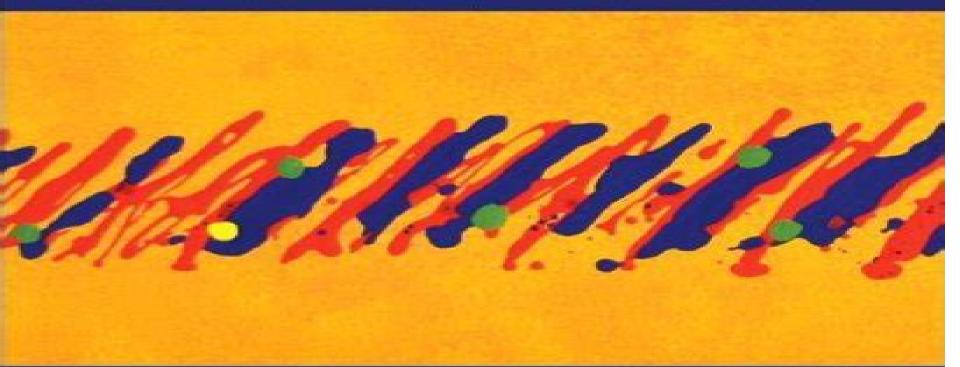
EPIGENETIC REGULATION IN THE NERVOUS SYSTEM

BASIC MECHANISMS AND CLINICAL IMPACT



Edited by

J. David Sweatt, Michael J. Meaney, Eric J. Nestler, and Schahram Akbarian



Epigenetic Regulation In The Nervous System Basic Mechanisms And Clinical Impact

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Epigenetic Regulation In The Nervous System Basic Mechanisms And Clinical Impact:

Epigenetic Regulation in the Nervous System J. David Sweatt, Michael J. Meaney, Eric J. Nestler, Schahram Akbarian, 2012-12-31 Epigenetic Regulation in the Nervous System addresses current understanding of the roles of epigenetic processes at the molecular cellular level their impact on neural development and behavior and the potential roles of these mechanisms in neurological and psychiatric disorders This award winning volume spans molecular epigenetics development cellular physiology and biochemistry synaptic and neural plasticity and behavioral models and is unique in covering epigenetically based disorders of the central nervous system Behavioral epigenetics is the study of how environmental factors alter behavior addressing the fundamental mechanisms that shape development and individual vulnerability resilience to adverse behavioral outcomes By understanding the molecular mechanisms involved in epigenetic modulation researchers may be able to develop targeted therapies for those individuals in whom it malfunctions Edited by the most highly regarded leaders in the field this book offers a comprehensive review of behavioral epigenetics and a balanced treatment of the strengths and weaknesses in experimentation in this area Covering background material as well as topics of current interest it serves both as a cutting edge resource and a foundational reference The book will benefit neuroscience researchers and graduate students with an interest in the links between gene regulation and behavior as will clinicians dealing with disorders such as addiction depression and schizophrenia BMA Medical Book Awards 2014 Highly Commended Neurology British Medical Association BMA Medical Book Awards 2014 First Prize Neurology British Medical Association 2013 PROSE Award winner for Best in Reference Works and Best Single Volume Reference in Science from the Association of American Publishers Presents a unified view of epigenetic mechanisms from behavior to genes and everything in between Discusses clinically relevant disorders in the context of epigenetics research making the volume appealing to clinicians as well as basic scientists Provides numerous practical examples for the new investigator to facilitate implementation of research in neuroepigenetics **Epigenetic Regulation in the Nervous System** Weston T. Powell, Janine M. LaSalle, 2012-12-31 **Epigenetic Regulation in the Nervous System** Jeremy J. Day, J. David Sweatt, 2012-12-31 Epigenetic Regulation in the Nervous System Alexi Nott, Daniel M. Fass, Stephen J. Haggarty, Li-Huei **Epigenetic Regulation in the Nervous System** Jenny Hsieh, Hongjun Song, 2012-12-31 Tsai,2012-12-31 *Epigenetic* Regulation in the Nervous System Alfred J. Robison, Jian Feng, Eric J. Nestler, 2012-12-31 Epigenetic Regulation in the Nervous System Quan Lin, Yi E. Sun, 2012-12-31 **Epigenetic Regulation in the Nervous System** Isabelle M. Mansuy, Rahia Mashoodh, Frances A. Champagne, 2012-12-31 *Epigenetic Regulation in the Nervous System* Junjie U. Guo, Guo-li Ming, Hongjun Song, 2012-12-31 **Epigenetic Regulation in the Nervous System** Morgan Bridi, Ted Abel,2012-12-31 Epigenetic Regulation in the Nervous System Rahul Bharadwaj, Cyril J. Peter, Schahram Akbarian.2012-12-31 **Epigenetic Regulation in the Nervous System** Michael J. Meaney, Schahram Akbarian, Eric J.

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the nervous system that arise through defects in neural development The Neurobiology of Schizophrenia Ted Abel, Thomas Nickl-Jockschat, 2016-07-08 The Neurobiology of Schizophrenia begins with an overview of the various facets and levels of schizophrenia pathophysiology ranging systematically from its genetic basis over changes in neurochemistry and electrophysiology to a systemic neural circuits level When possible the editors point out connections between the various systems The editors also depict methods and research strategies used in the respective field The individual backgrounds of the two editors promote a synthesis between basic neuroscience and clinical relevance Provides a comprehensive overview of neurobiological aspects of schizophrenia Discusses schizophrenia at behavioral cognitive clinical electrophysiological molecular and genetic levels Edited by a translational researcher and a psychiatrist to promote synthesis between basic neuroscience and clinical relevance Elucidates connections between the various systems depicted when possible

Introduction to Social Neuroscience Stephanie Cacioppo, John T. Cacioppo, 2020-08-11 Humans like many other animals are highly social species But what exactly makes us social How do our biological systems implement social behavior And in turn how do these social processes impact our brain and biology These are the questions that define the young field of social neuroscience a field that combines the study of animal models and humans in order to understand the neural hormonal cellular and genomic mechanisms underlying social processes and behaviors such as imitation loneliness empathy and cooperation Intended for advanced undergraduates and graduate students this is the first textbook to provide a synthetic approach to social neuroscience Here students and scholars are introduced to the field by examining a growing body of evidence that shows that the nervous system cannot be understood without consideration of the social environments in which humans and many animal species live The first three chapters introduce readers to the neurological basis for social behavior and the concept of the social brain Chapters four through six discuss how mental states are communicated between people And chapters seven through nine cover the neural roots of social interactions and group thought patterns Ultimately this book demonstrates how the brain mediates social behaviour and provides a foundational textbook for this nascent field

Shared Representations Sukhvinder S. Obhi, Emily S. Cross, 2016-11-17 A collection of cutting edge contributions on the idea of shared representations information sharing between the brains of those involved

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