

Maria de los Angeles Robinson-
Agramonte *Editor*

Translational Approaches to Autism Spectrum Disorder



Springer

Translational Approaches To Autism Spectrum Disorder

**Michael J. Schmeisser, Tobias M.
Boeckers**



Translational Approaches To Autism Spectrum Disorder:

Translational Approaches to Autism Spectrum Disorder Maria de los Angeles Robinson-Agramonte, 2015-06-10 This book addresses and synthesizes recent basic translational and clinical research with the goal of understanding the mechanisms behind autism spectrum disorder ASD and how they lead to altered brain function and behavior Bringing clarity to these mechanisms will lead to more effective therapies for the various heterogeneous pathologies that comprise ASD Currently there are few if any proven therapies for the majority of the disorders Among the topics addressed are neural plasticity neuroimmunology neuroinflammation neuroimaging and appropriate animal and genetic models *Translational Anatomy and Cell Biology of Autism Spectrum Disorder* Michael J. Schmeisser, Tobias M. Boeckers, 2017-05-25 Autism spectrum disorder ASD affects approximately 1 % of the human population and is characterized by a core symptomatology including deficits in social interaction and repetitive patterns of behaviour plus various co morbidities Although a lot of progress has been made to uncover underlying causes and mechanisms throughout the last decade we are still at the very beginning to understand this enormously complex neurodevelopmental condition This special volume is focused on translational anatomy and cell biology of ASD International experts from the field including several members of the EU AIMS initiative launched by the European Union to develop novel treatments for ASD have contributed chapters on several topics covering all crucial aspects of translational ASD research with a special emphasis on ASD model systems including stem cells and animals Primary objective is to clarify how anatomical and cell biological phenotypes of ASD will help to translate basic mechanisms to clinical practice and to efficiently treat affected individuals in the near future **Textbook of Autism Spectrum Disorders, Second Edition** Eric Hollander, M.D., Randi Hagerman, M.D., Casara Ferretti, M.S., 2022-03-15 More than 40 years after the official recognition of infantile autism in DSM III advances continue to be made in our understanding of the possible causes assessment and evaluation and treatment of autism spectrum disorder ASD With contributions by dozens of experts in the field this second edition of the Textbook of Autism Spectrum Disorders has been updated to reflect the latest research in ASD Unrivaled in its thoroughness this volume discusses issues of assessment and evaluation examines the etiology of ASD and its recognized associations with other medical conditions analyzes standard and experimental treatments and delves into social policy issues pertinent to individuals with ASD and those who treat them With summary points in each chapter and copious lists of recommended readings this is an indispensable resource for psychiatrists psychologists neurologists social workers speech therapists educators and all others in the continuum of care New treatment perspectives in autism spectrum disorders Roberto Canitano, Yuri Bozzi, 2015-04-17 Developing novel and more effective treatments that improve quality of life for individuals with autism spectrum disorders is urgently needed To date a wide range of behavioral interventions have been shown to be safe and effective for improving language and cognition and adaptive behavior in children and adolescents with ASD However many people with ASD can receive additional benefit from

targeted pharmacological interventions One of the major drawback in setting up therapeutics intervention is the remarkable individual differences found across individuals with ASD As a matter of fact the medications that are currently available address only symptoms associated with ASD and not the core domains of social and communication dysfunction The pathogenesis paradigm shift of ASD towards synaptic abnormalities moved the research to pathway to disease that involve multiple systems and that are becoming the forefront of ASD treatment and are pointing toward the development of new targeted treatments Some new therapeutics have been tested and others are being studied In this context single gene disorders frequently associated with ASD such as Rett Syndrome Fragile X and Tuberous Sclerosis have been of significant aid as neurobiology of these disorders is more clear and has a potential to shed light on the altered signaling in ASD However much research is needed to further understand the basic mechanisms of disease and the relationship to idiopathic ASD Clinical trials in children are underway with agents directed to core symptoms and to the associated disorders in the search of new therapeutics and progress are expected with possible new option for therapeutics in ASD in the upcoming future Children and Adolescents with ASD and their families can provide important information about their experience with new treatments and this should be a priority for future research In addition research performed on genetic mouse models of ASD will keep on providing useful information on the molecular pathways dysrupted in the disease thus contributing to identify novel drug targets

Epileptic Seizure Disorders in Animal Models: Advances in Translational Approaches Evgenia Sitnikova, Gilles van Luijtelaa, Filiz Onat, 2024-04-29

Translational Research Methods in Neurodevelopmental Disorders Stéphane Martin, Frédéric Laumonnier, 2022-09-29 This volume explores the latest techniques used to study neurodevelopmental diseases NDD that range from molecular aspects to integrated research approaches and brain imaging in living rodents Chapters in this book cover topics such as protocols to deliver shRNA in vitro and in vivo using lentiviral particles to knock down specific protein expression experimental procedures to use recombinant fluorescent probes to visualize endogenous proteins at the mammalian synapse CRISPR Cas9 toolkit to assess either gain or loss of gene function in brain organoids detailed protocols to use in vivo manipulations to correct the behavioral phenotypes in cognitive disorder mouse lines and experimental approaches to genetically engineer macaque models of NDDs and investigate how genetic predisposition may cause neural and functional alterations 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 Cutting edge and practical *Translational Research Methods in Neurodevelopmental Disorders* is a valuable resource for all researchers who want to learn more about this important and developing field

Behavior Analysis Henry S. Roane, Andrew R. Craig, Valdeep Saini, Joel E. Ringdahl, 2024-01-12 Throughout this text many of the research paradigms and methodologies across experimental analysis of behavior EAB and applied behavior analysis ABA are presented within the bench to bedside approach of translational research described by the National Institutes of Health The first few chapters of the text introduce

underlying core tenets of behaviorism as well as core characteristics and methods that define the field of behavior analysis. The next several chapters of the book introduce the reader to some of the foundational principles of behavior analysis with coverage from both the EAB and ABA perspectives. The final chapters of the book cover topics for which there has been ample basic applied and translational research conducted. The text concludes with a chapter on ethics which includes content related to ethical issues in research, ethical issues in clinical practice, and the ethical use of nonhuman animals and special populations in research.

Comorbidity and Autism Spectrum Disorder, 2021-01-07 **Translational Neuroimaging**

Robert A. McArthur, 2012-10-26. This book covers methodical issues in human and animal neuroimaging, translational research as well as detailed applied examples of the use of neuroimaging in neuropsychiatric disorders and the development of drugs for their treatment. Offering an accompanying website with illustrations and text available for further knowledge and presentations, *Translational Neuroimaging Tools for CNS Drug Discovery: Development and Treatment* appeals to non-clinical and clinical neuroscientists working in and studying neuropsychiatric disorders and their treatment as well as providing the novice researcher or researcher outside of his/her expertise the opportunity to understand the background of translational research and the use of imaging in this field. Provides a background to translational research and the use of brain imaging in neuropsychiatric disorders.

Geeks, Genes, and the Evolution of Asperger Syndrome Dean Falk, Eve Penelope

Schofield, 2018-03. In this unusual book, an evolutionary anthropologist and her coauthor, granddaughter who has Asperger syndrome, examine the emergence and spread of Asperger syndrome and other forms of high-functioning autism. The authors speak to readers with autism, parents, teachers, clinicians, psychologists, psychiatrists, other health care providers, autism researchers, evolutionary biologists, geneticists, paleoanthropologists, and people who simply enjoy reading about science. Using the latest findings regarding brain evolution and the neurological, genetic, and cognitive underpinnings of autistic individuals at the high end of the spectrum, Falk theorizes that many characteristics associated with Asperger syndrome are byproducts of the evolution of advanced mental processing. She explores the origins of autism, whether it is currently evolving, how it differs in males and females, and whether it is a global phenomenon. Additionally, Eve Schofield, who was diagnosed with Asperger syndrome as a child, provides firsthand accounts of what it is like to grow up as an Aspie.

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