Maria de los Angeles Robinson-Agramonte *Editor*

Translational Approaches to Autism Spectrum Disorder



Translational Approaches To Autism Spectrum Disorder

Eric Hollander, M.D., Randi Hagerman, M.D., Casara Ferretti, M.S.

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 topic addressed are neural plasticity neuroimmunology neuroinflammation neuroimaging and appropriate animal and genetic models 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 Luijtelaar, 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 Autism Spectrum Disorder ,2021-01-07 <u>Translational Neuroimaging</u> 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 by products 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 **Neurodevelopmental Pediatrics** David D. Eisenstat, Dan Goldowitz, Tim F. Oberlander, Jerome Y. Yager, 2023-02-22 This book explores the interrelationship of genetics the environment or both in the causation of three neurodevelopmental disorders autism autism spectrum disorder ASD fetal alcohol spectrum disorder FASD and cerebral palsy CP It links common clinical problems in developmental pediatrics and pediatric neurology to current concepts and translational research advances in developmental neurosciences medical genetics and related disciplines The first section of the book provides a comprehensive and up to date overview of development of the brain including topics such as neuronal stem cells epigenetics and the influence of the prenatal environment The next three sections analyze the epidemiology diagnosis interventions and controversies and research

directions associated with each of the three neurodevelopmental disorders It also examines co morbidities common to all three disorders such as disturbed sleep seizures behavioral disorders and pain It concludes by highlighting the impact of ASD FASD and CP on family dynamics and provides tools and resources based on foundational concepts such as neuroethics bioinformatics community engagement and advocacy Learning objectives key points clinical vignettes and multiple choice questions are incorporated throughout the book With its comprehensive treatment of disease mechanisms genetics and pathophysiology associated with these disorders and its discussion of potential therapies and novel treatments Neurodevelopmental Pediatrics Genetic and Environmental Influences is an essential resource for developmental pediatricians child neurologists fellows residents and graduate students Selected Papers from CUBANNI 2017—"The Fourth International Workshop of Neuroimmunology" Maria De los Angeles Robinson Agramonte, Carlos Alberto Gonçalves, Dario Siniscalco, 2019-02-04 This book is a printed edition of the Special Issue Selected Papers from CUBANNI 2017 The Fourth International Workshop of Neuroimmunology that was published in Behavioral Sciences Brainstem and Cerebellum in Autism and Related Neurodevelopmental Disorders (DD) Eric London, Patricia Gaspar, Luis Puelles, Rubin Eduardo Jure, Randy J. Kulesza, 2022-10-11 The Routledge International Handbook of Learning with Technology in Early Childhood Natalia Kucirkova, Jennifer Rowsell, Garry Falloon, 2019-03-04 The Routledge International Handbook of Learning with Technology in Early Childhood focuses specifically on the most cutting edge innovative and international approaches in the study of children's use of and learning with digital technologies. This edited volume is a comprehensive survey of methods in children's technologies and contains a rich repertoire of studies from diverse fields and research including both educational and developmental psychology post humanist literacy applied linguistics language and phenomenology and narrative approaches For ease of reference the Handbook s 28 chapters are divided into four thematic sections introduction and opening reflections studies answering ontological questions which theorize how children take on original identities in becoming literate with technologies studies answering epistemological guestions which focus on how children's knowledge and learning are co constructed with a diverse range of technologies studies answering practice related questions which explore the resources and conditions that create the most powerful learning opportunities for children Expertly edited this interdisciplinary and international compendium is an ideal introduction to such a diverse multi faceted Translational Neuroscience Karoly Nikolich, Steven E. Hyman, 2015-08-21 Experts from academia and industry field discuss how to create a new more effective translational neuroscience drawing on novel technology and recent discoveries Today translational neuroscience faces significant challenges Available therapies to treat brain and nervous system disorders are extremely limited and dated and further development has effectively ceased Disinvestment by the private sector occurred just as promising new technologies in genomics stem cell biology and neuroscience emerged to offer new possibilities In this volume experts from both academia and industry discuss how novel technologies and reworked translation concepts can

create a more effective translational neuroscience. The contributors consider such topics as using genomics and neuroscience for better diagnostics and biomarker identification new approaches to disease based on stem cell technology and more careful use of animal models and greater attention to human biology and what it will take to make new therapies available for clinical use They conclude with a conceptual roadmap for an effective and credible translational neuroscience one informed by a disease focused knowledge base and clinical experience Contributors Tobias M B ckers Thomas Bourgeron Karl Broich Nils Brose Bruce N Cuthbert Ilka Diester G l D len Guoping Feng Richard Frackowiak Raquel E Gur Stephan Heckers Franz Hefti David M Holtzman Steven E Hyman Nancy Ip Cynthia Joyce Tobias Kaiser Edward H Koo Walter J Koroshetz Katja S Kroker Robert C Malenka Isabelle Mansuy Eliezer Masliah Yuan Mei Andreas Meyer Lindenberg Lennart Mucke Pierluigi Nicotera Karoly Nikolich Michael J Owen Menelas N Pangalos Alvaro Pascual Leone Joel S Perlmutter Trevor W Robbins Lee L Rubin Akira Sawa Mareike Schnaars Bernd Sommer Maria Grazia Spillantini Laura Spinney Matthew W State Marius The Cambridge Encyclopedia of Child Development Brian Hopkins, Elena Geangu, Sally Linkenauger, 2017-10-19 Updated and expanded to 124 entries The Cambridge Encyclopedia of Child Development remains the authoritative reference in the field Innovative approaches and therapeutic perspectives for early-onset neurodevelopmental disorders: from bench to bedside. Barbara Bardoni, Maria Vincenza Catania, Viviana Trezza, 2024-03-11 In partnership with the Jacques Monod Conference Genetics environment signaling synaptic plasticity in developmental brain disorders from bench to bedside the Frontiers in Neuroscience Journal announces an article collection that will highlight cutting edge research presented at the 2022 meeting from Monday 11th Apr Friday 15th Apr in Roscoff Brittany Neurodevelopmental Disorders NDDs are a highly heterogeneous group of disorders with a prevalence of 3% of the worldwide population These disorders include Intellectual Disability ID autism spectrum disorder ASD attention deficit hyperactivity disorder specific learning disorder motor and language disorder schizophrenia and epilepsy Thus NDDs are characterized by deficits in cognition social interaction behavior and motor functioning as a result of abnormal brain development Several of these phenotypes can co exist in the same patient Indeed for instance up to 50% of ASD patients display also ID Similarly the prevalence of epilepsy in ID patients is around 26% This phenotypic overlap is also mirrored at the genetic and molecular levels For instance some pathways e g Rho GTPase group I mGluRs cAMP and WNT have been found to be altered in different forms of NDDs both of genetic and environmental origin Algorithms in Advanced Artificial Intelligence R. N. V. Jagan Mohan, Vasamsetty Chandra Sekhar, V. M. N. S. S. V. K. R. Gupta, 2024-07-08 The most common form of severe dementia Alzheimer s disease AD is a cumulative neurological disorder because of the degradation and death of nerve cells in the brain tissue intelligence steadily declines and most of its activities are compromised in AD Before diving into the level of AD diagnosis it is essential to highlight the fundamental differences between conventional machine learning ML and deep learning DL This work covers a number of photo preprocessing approaches that aid in learning because image processing is essential for the diagnosis of AD

The most crucial kind of neural network for computer vision used in medical image processing is called a Convolutional Neural Network CNN The proposed study will consider facial characteristics including expressions and eye movements using the diffusion model as part of CNN s meticulous approach to Alzheimer s diagnosis Convolutional neural networks were used in an effort to sense Alzheimer s disease in its early stages using a big collection of pictures of facial expressions

Progress in Translational Neuroimaging: Integrating Pathways, Systems and Phenomenology in Neurology **and Psychiatry** Drozdstoy Stoyanov, Paolo Brambilla, 2020-08-21 Principles of Gender-Specific Medicine Marianne Legato J,2017-05-15 The announcement that we had decoded the human genome in 2000 ushered in a new and unique era in biomedical research and clinical medicine This Third Edition of Principles of Gender Specific Medicine focuses as in the past two editions on the essentials of sexual dimorphism in human physiology and pathophysiology but emphasizes the latest information about molecular biology and genomic science in a variety of disciplines. Thus this edition is a departure from the previous two the editor solicited individual manuscripts from innovative scientists in a variety of fields rather than the traditional arrangement of sections devoted to the various subspecialties of medicine edited by section chiefs Wherever it was available these authors incorporated the latest information about the impact of the genome and the elements that modify its expression on human physiology and illness All chapters progress translationally from basic science to the clinical applications of gender specific therapy and suggest the most important topics for future investigation This book is essential reading for all biomedical investigators and medical educators involved in gender specific medicine It will also be useful for primary care practitioners who need information about the importance of sex and gender in the prevention diagnosis and treatment of illness Winner of the 2018 PROSE Award in Clinical Medicine from the Association of American Publishers 2018 PROSE Awards Winner Award for Clinical Medicine Association of American Publishers Outlines sex specific differences in normal human function and explains the impact of age hormones and environment on the incidence and outcome of illness Reflects the latest information about the molecular basis of the sexual dimorphism in human physiology and the experience of disease Reviews the implications of our ever improving ability to describe the genetic basis of vulnerability to disease and our capacity to alter the genome itself Illustrates the importance of new NIH guidelines that urge the inclusion of sex as a variable in research protocols

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