Translational Neuroscience

Toward New Therapies

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STRÜNGMANN FORUM REPORTS

Translational Neuroscience Toward New Therapies Strngmann Forum Reports

Paul Verschure, F.M.J.

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Neuro-Geriatrics Babak Tousi,Jeffrey Cummings,2017-12-06 This manual takes a multidisciplinary approach to neurological disorders in the elderly Comprehensive and practical it includes the most recent diagnostic criteria and immediately accessible visual care paths including the latest pharmacologic and non pharmacologic interventions Covering a range of modalities from the importance and impact of each disease to diagnostic criteria genetics laboratory and imaging findings treatment and care paths this book focuses on neurological conditions that occur commonly in older persons or which have a striking effect on their lives The common types of dementias Parkinson s disease and related disorders rapidly progressive diseases seizure disorders and multiple sclerosis are covered Issues commonly affecting this population such as neurobehavioral symptoms and caregiver issues are discussed Neuro Geriatrics A Clinical Manual is aimed at any physician who treats the elderly with neurological disorders neurologists geriatricians and geriatric psychiatrists both specialists and general practitioners **Translational Neuroscience** Karoly Nikolich,Steven E. Hyman,2015-08-21 Experts from academia and industry 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 Wernig *Agrobiodiversity* Karl S. Zimmerer,Stef De Haan,2019-04-30 Experts discuss the challenges faced in agrobiodiversity and conservation integrating disciplines that range from plant and biological sciences to economics and political science Wide ranging environmental phenomena including climate change extreme weather events and soil and water availability combine with such socioeconomic factors as food policies dietary preferences

and market forces to affect agriculture and food production systems on local national and global scales The increasing simplification of food systems the continuing decline of plant species and the ongoing spread of pests and disease threaten biodiversity in agriculture as well as the sustainability of food resources Complicating the situation further the multiple systems involved cultural economic environmental institutional and technological are driven by human decision making which is inevitably informed by diverse knowledge systems The interactions and linkages that emerge necessitate an integrated assessment if we are to make progress toward sustainable agriculture and food systems This volume in the Str ngmann Forum Reports series offers insights into the challenges faced in agrobiodiversity and sustainability and proposes an integrative framework to guide future research scholarship policy and practice The contributors offer perspectives from a range of disciplines including plant and biological sciences food systems and nutrition ecology economics plant and animal breeding anthropology political science geography law and sociology Topics covered include evolutionary ecology food and human health the governance of agrobiodiversity and the interactions between agrobiodiversity and climate and demographic change **Deliberate Ignorance** Ralph Hertwig,Christoph Engel,2021-02-02 Psychologists economists historians computer scientists sociologists philosophers and legal scholars explore the conscious choice not to seek information The history of intellectual thought abounds with claims that knowledge is valued and sought yet individuals and groups often choose not to know We call the conscious choice not to seek or use knowledge or information deliberate ignorance When is this a virtue when is it a vice and what can be learned from formally modeling the underlying motives On which normative grounds can it be judged Which institutional interventions can promote or prevent it In this book psychologists economists historians computer scientists sociologists philosophers and legal scholars explore the scope of deliberate ignorance *The Neocortex* Wolf Singer,Terrence J. Sejnowski,Pasko Rakic,2019-10-29 Experts review the latest research on the neocortex and consider potential directions for future research Over the past decade technological advances have dramatically increased information on the structural and functional organization of the brain especially the cerebral cortex This explosion of data has radically expanded our ability to characterize neural circuits and intervene at increasingly higher resolutions but it is unclear how this has informed our understanding of underlying mechanisms and processes In search of a conceptual framework to guide future research leading researchers address in this volume the evolution and ontogenetic development of cortical structures the cortical connectome and functional properties of neuronal circuits and populations They explore what constitutes uniquely human mental capacities and whether neural solutions and computations can be shared across species or repurposed for potentially uniquely human capacities Contributors Danielle S Bassett Randy M Bruno Elizabeth A Buffalo Michael E Coulter Hermann Cuntz Stanislas Dehaene James J DiCarlo Pascal Fries Karl J Friston Asif A Ghazanfar Anne Lise Giraud Joshua I Gold Scott T Grafton Jennifer M Groh Elizabeth A Grove Saskia Haegens Kenneth D Harris Kristen M Harris Nicholas G Hatsopoulos Tarik F Haydar Takao K Hensch Wieland B Huttner Matthias Kaschube

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Interactive Task Learning Kevin A. Gluck,John E. Laird,2019-08-16 Experts from a range of disciplines explore how humans and artificial agents can quickly learn completely new tasks through natural interactions with each other Humans are not limited to a fixed set of innate or preprogrammed tasks We learn quickly through language and other forms of natural interaction and we improve our performance and teach others what we have learned Understanding the mechanisms that underlie the acquisition of new tasks through natural interaction is an ongoing challenge Advances in artificial intelligence cognitive science and robotics are leading us to future systems with human like capabilities A huge gap exists however between the highly specialized niche capabilities of current machine learning systems and the generality flexibility and in situ robustness of human instruction and learning Drawing on expertise from multiple disciplines this Str ngmann Forum Report explores how humans and artificial agents can quickly learn completely new tasks through natural interactions with each other The contributors consider functional knowledge requirements the ontology of interactive task learning and the representation of task knowledge at multiple levels of abstraction They explore natural forms of interactions among humans as well as the use of interaction to teach robots and software agents new tasks in complex dynamic environments They discuss research challenges and opportunities including ethical considerations and make proposals to further understanding of interactive task learning and create new capabilities in assistive robotics healthcare education training and gaming Contributors Tony Belpaeme Katrien Beuls Maya Cakmak Joyce Y Chai Franklin Chang Ropafadzo Denga Marc Destefano Mark d Inverno Kenneth D Forbus Simon Garrod Kevin A Gluck Wayne D Gray James Kirk Kenneth R Koedinger Parisa Kordjamshidi John E Laird Christian Lebiere Stephen C Levinson Elena Lieven John K Lindstedt Aaron Mininger Tom Mitchell Shiwali Mohan Ana Paiva Katerina Pastra Peter Pirolli Roussell Rahman Charles Rich Katharina J Rohlfing Paul S Rosenbloom Nele Russwinkel Dario D Salvucci Matthew Donald D Sangster Matthias Scheutz Julie A Shah Candace L Sidner Catherine Sibert Michael Spranger Luc Steels Suzanne Stevenson Terrence C Stewart Arthur Still Andrea Stocco Niels Taatgen Andrea L Thomaz J Gregory Trafton Han L J van der Maas Paul Van Eecke Kurt VanLehn Anna Lisa Vollmer Janet Wiles Robert E Wray III Matthew Yee King Youth Mental Health Peter J. Uhlhaas,Stephen J. Wood,2020-04-14 Experts discuss the potential of early intervention to transform outcomes for people with mental disorders Mental illness represents one of the largest disease burdens worldwide yet treatments have been largely ineffective in improving the quality of life for millions of affected individuals in part because approaches taken have focused on late stage disorders in adulthood This

volume shifts the focus by placing the developmental stage of youth at the center of mental health The contributors challenge current nosology explore mechanisms that underlie the emergence of mental disorders and propose a framework to guide early intervention Offering recommendations for the future the book holds that early intervention in youth has the potential to transform outcomes for people with mental disorders and to reconfigure the landscape of mental health The contributors discuss epidemiology classification and diagnostic issues including the benefits of clinical staging the context for emerging mental disorders including both biological and sociocultural processes biological mechanisms underlying risk for psychopathology including aspects of neural circuitry and developing and implementing prevention and early intervention including assessment and intervention modalities and knowledge translation in early treatment of schizophrenia Contributors Nicholas B Allen Mario Alvarez Jimenez G Paul Amminger Shelli Avenevoli Hannah F Behrendt Tolulope Bella Awusah Maximus Berger Byron K Y Bitanihirwe Drew Blasco John D Cahill Joanne S Carpenter Andrew M Chanen Eric Y H Chen Shane D Colombo Christoph U Correll Christopher G Davey Kim Q Do Damien A Fair Helen L Fisher Sophia Frangou John Gleeson Robert K Heinssen Ian B Hickie Frank Iorfino Matcheri S Keshavan Kerstin Konrad Phuong Thao D Le Francis Lee Leslie D Leve Sarah A Lieff Cindy H Liu Beatriz Luna Patrick D McGorry Urvakhsh Meherwan Mehta Andreas Meyer Lindenberg Shreya V Nallur Cristopher Niell Merete Nordentoft Dost ng r George C Patton Tom Paus Ulrich Reininghaus Bernalyn Ruiz Fred Sabb Akira Sawa Michael Schoenbaum Gunter Schumann Elizabeth M Scott Jai Shah Vinod H Srihari Ezra Susser John Torous Peter J Uhlhaas Swapna K Verma T Wilson Woo Stephen J Wood Lawrence H Yang Alison R Yung

Metabolic Neuropsychiatry Dost Öngür,Judith M. Ford,2025-11-01 This open access book provides an interdisciplinary perspective on energy metabolism in the brain and body in neuropsychiatric disorders and suggests future research directions Multiple lines of evidence indicate that energy metabolism is aberrant in the body and brain in individuals with major neuropsychiatric disorders such as schizophrenia mood disorders and neurodegenerative disorders Emerging therapeutic interventions aim to improve outcomes in many of these common and severe disorders To foster interdisciplinary dialogue and to promote informed applications in research medicine and public health the Ernst Str ngmann Forum convened scholars from diverse fields to examine the role of energy metabolism in brain function the bidirectional association between metabolism in the brain and body and the future therapeutic potential of treatment interventions that improve metabolism in people with psychiatric disorders Synthesizing the interdisciplinary perspectives that emerged from these discussions the book is organized in four sections Role of Metabolism in Brain Function Metabolic Abnormalities in Neuropsychiatric Disorders Systemic Metabolic Aspects of Neuropsychiatric Disorders Metabolism Based Therapies This volume offers insights to researchers and clinicians working in basic translational and clinical research in neurology and psychiatry pertinent to mitochondrial function energy metabolism human physiology and treatment development

Financial Incentives to Encourage Development of Therapies that Address Unmet Medical Needs for Nervous System

Disorders Sheena M. Posey Norris,Evelyn Strauss,Christopher Joseph De Feo,Clare Stroud,2015 The Institute of Medicine IOM Forum on Neuroscience and Nervous System Disorders in collaboration with the IOM Forum on Drug Discovery Development and Translation convened a workshop on January 20 21 2015 to explore policy changes that might increase private sector investment in research and development innovation that fills unmet medical needs for central nervous system CNS disorders Workshop participants strategized about how to incentivize companies to fortify their CNS drug development programs shrinking obstacles that currently deter ventures Representatives from academia government agencies patient groups and industry gathered to share information and viewpoints and to brainstorm about budget neutral policy changes that could help widen the pipeline toward drugs that address unmet needs for CNS disorders This report summarizes the presentations and discussion of the workshop Improving and Accelerating Therapeutic Development for Nervous System Disorders Institute of Medicine,Board on Health Sciences Policy,Forum on Neuroscience and Nervous System Disorders,2014-02-06 Improving and Accelerating Therapeutic Development for Nervous System Disorders is the summary of a workshop convened by the IOM Forum on Neuroscience and Nervous System Disorders to examine opportunities to accelerate early phases of drug development for nervous system drug discovery Workshop participants discussed challenges in neuroscience research for enabling faster entry of potential treatments into first in human trials explored how new and emerging tools and technologies may improve the efficiency of research and considered mechanisms to facilitate a more effective and efficient development pipeline There are several challenges to the current drug development pipeline for nervous system disorders The fundamental etiology and pathophysiology of many nervous system disorders are unknown and the brain is inaccessible to study making it difficult to develop accurate models Patient heterogeneity is high disease pathology can occur years to decades before becoming clinically apparent and diagnostic and treatment biomarkers are lacking In addition the lack of validated targets limitations related to the predictive validity of animal models the extent to which the model predicts clinical efficacy and regulatory barriers can also impede translation and drug development for nervous system disorders Improving and Accelerating Therapeutic Development for Nervous System Disorders identifies avenues for moving directly from cellular models to human trials minimizing the need for animal models to test efficacy and discusses the potential benefits and risks of such an approach This report is a timely discussion of opportunities to improve early drug development with a focus toward preclinical trials **Advancing Gene-Targeted Therapies for Central Nervous System Disorders** National Academies of Sciences, Engineering, and Medicine,Health and Medicine Division,Board on Health Sciences Policy,Forum on Neuroscience and Nervous System Disorders,2019-12-01 On April 23 and 24 2019 the Forum on Neuroscience and Nervous System Disorders convened a workshop titled Advancing Gene Targeted Therapies for Central Nervous System Disorders in Washington DC This public workshop brought together experts and key stakeholders from academia government industry philanthropic foundations and disease patient focused nonprofit

organizations to explore approaches for advancing the development of gene targeted therapies for central nervous system CNS disorders and implications of developing these therapies Participants explored lessons learned from both successful and unsuccessful clinical development programs new knowledge about the genetic underpinnings of brain disorders the current status and future potential of gene targeted therapies for CNS disorders challenges and potential solutions for translating preclinical findings to approved therapies and patient and caregiver perspectives They also discussed what will be needed to develop these therapies for common disorders such as Alzheimer s and Parkinson s disease as well as neuropsychiatric and neurodevelopmental disorders such as schizophrenia and autism The workshop included approaches that target both DNA and RNA as well as gene products using viral vectors antisense oligonucleotides and RNA interference This publication summarizes the presentations and discussion of the workshop **Neurotherapeutics in the Era of Translational Medicine** Richard A. Smith,Brian K. Kaspar,Clive N. Svendsen,2020-11-28 For the first time in history there is now hope for treating neurological disorders that had previously been considered untreatable The remarkable confluence of events that has heralded this is the focus of Neurotherapeutics in the Era of Translational Medicine This anthology written by many of the prominent scientists and researchers in the field of biotechnology recounts the breathtaking advances that are revolutionizing treatment for disorders such as amyotrophic lateral sclerosis spinal muscular atrophy multiple sclerosis Parkinson s disease myasthenia gravis migraine and glioblastoma The story behind the story of these translational efforts is told with authors depicting the ups and downs encountered on the path of their drug discovery and development effort In parallel with this path advances in identifying novel biomarkers and disease models are summarized as are contemporary issues focusing on clinical trial design bioethics innovative funding strategies and collaborations between government and academia in an effort to facilitate breakthrough treatments The book is written by members of the biotech and pharmaceutical ecosystem for those who belong to it and aspire to become part of it Comprehensive review on the progress of translational research in neurotherapeutics for neurologic disorders Discusses important issues in clinical trials such as design and ethical issues Written for neuroscientists neurologists and pharmacologists **Translational Medicine in CNS Drug Development** George G. Nomikos,Douglas E. Feltner,2019-06-19 Translational Medicine in CNS Drug Development Volume 29 is the first book of its kind to offer a comprehensive overview of the latest developments in translational medicine and biomarker techniques With extensive coverage on all aspects of biomarkers and personalized medicine and numerous chapters devoted to the best strategies for developing drugs that target specific disorders this book presents an essential reference for researchers in neuroscience and pharmacology who need the most up to date techniques for the successful development of drugs to treat central nervous system disorders Despite increases in the number of individuals suffering from CNS related disorders the development and approval of drugs for their treatment have been hampered by inefficiencies in advancing compounds from preclinical discovery to the clinic However in the past decades game changing strides have been

made in our understanding of the pathophysiology of CNS disorders and the relationship of drug exposure in plasma and CNS to pharmacodynamic measures in both animals and humans From Molecular Insights to Patient Stratification for Neurological and Psychiatric Disorders National Academies Of Sciences Engineeri,National Academies of Sciences, Engineering, and Medicine,Health and Medicine Division,Board on Health Sciences Policy,Forum on Neuroscience and Nervous System Disorders,2022-06-11 While significant progress has been seen in fields such as cardiovascular medicine and cancer in improving patient stratification and developing targeted drugs based on genetic findings progress continues to lag for neuropsychiatric disorders To address this issue the National Academies of Sciences Engineering and Medicine s Forum on Neuroscience and Nervous System Disorders convened a workshop in October 2021 The workshop brought together government philanthropic foundations and disease focused non profit organizations to discuss new genetic and neuroscience technologies and explore how they can be used to elucidate disease mechanisms and to advance the development of biomarkers and targeted therapies for people with neurological and psychiatric disorders This Proceedings of a Workshop summarizes the presentations and discussions of the workshop

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