

Translational Neuroscience

Toward New Therapies

EDITED BY

Karoly Nikolich and
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STRÖNGMANN FORUM REPORTS

Translational Neuroscience Toward New Therapies Strngmann Forum Reports

A. David Redish, Joshua A. Gordon



Translational Neuroscience Toward New Therapies Strngmann Forum Reports:

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

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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

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

Complexity and Evolution David S. Wilson, Alan Kirman, 2016-08-19 An exploration of how approaches that draw on evolutionary theory and complexity science can advance our understanding of economics Two widely heralded yet contested approaches to economics have emerged in recent years one emphasizes evolutionary theory in terms of individuals and institutions the other views

economies as complex adaptive systems In this book leading scholars examine these two bodies of theory exploring their possible impact on economics Relevant concepts from evolutionary theory drawn on by the contributors include the distinction between proximate and ultimate causation multilevel selection cultural change as an evolutionary process and human psychology as a product of gene culture coevolution Applicable ideas from complexity theory include self organization fractals chaos theory sensitive dependence basins of attraction and path dependence The contributors discuss a synthesis of complexity and evolutionary approaches and the challenges that emerge Focusing on evolutionary behavioral economics and the evolution of institutions they offer practical applications and point to avenues for future research Contributors Robert Axtell Jenna Bednar Eric D Beinhocker Adrian V Bell Terence C Burnham Julia Chelen David Colander Iain D Couzin Thomas E Currie Joshua M Epstein Daniel Fricke Herbert Gintis Paul W Glimcher John Gowdy Thorsten Hens Michael E Hochberg Alan Kirman Robert Kurzban Leonhard Lades Stephen E G Lea John E Mayfield Mariana Mazzucato Kevin McCabe John F Padgett Scott E Page Karthik Panchanathan Peter J Richerson Peter Schuster Georg Schwesinger Rajiv Sethi Enrico Spolaore Sven Steinmo Miriam Teschl Peter Turchin Jeroen C J M van den Bergh Sander E van der Leeuw Romain Wacziarg John J Wallis David S Wilson Ulrich Witt

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

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Computational Psychiatry A. David Redish, Joshua A. Gordon, 2022-11-01 Psychiatrists and neuroscientists discuss the potential of computational approaches to address problems in psychiatry including diagnosis treatment and integration with neurobiology Modern psychiatry is at a crossroads as it attempts to balance neurological analysis with psychological assessment Computational neuroscience offers a new lens through which to view such thorny issues as diagnosis treatment and integration with neurobiology In this volume psychiatrists and theoretical and computational neuroscientists consider the potential of computational approaches to psychiatric issues This unique collaboration yields surprising results innovative synergies and novel open questions The contributors consider mechanisms of psychiatric disorders the use of computation and imaging to model psychiatric disorders ways that computation can inform psychiatric nosology and specific applications of the computational approach Contributors Susanne E Ahmari Huda Akil Deanna M Barch Matthew Botvinick Michael Breakspear Cameron S Carter Matthew V Chafee Sophie Den ve Daniel Durstewitz Michael B First Shelly B Flagel Michael J Frank Karl J Friston Joshua A Gordon Katia M Harl Crane Huang Quentin J M Huys Peter W Kalivas John H Krystal Zeb Kurth Nelson Angus W MacDonald III Tiago V Maia Robert C Malenka Sanjay J Mathew Christoph Mathys P Read Montague Rosalyn Moran Theoden I Netoff Yael Niv John P O Doherty Wolfgang M Pauli Martin P Paulus Frederike Petzschner Daniel S Pine A David Redish Kerry Ressler Katharina Schmack Jordan W Smoller Klaas Enno Stephan Anita Thapar Heike Tost Nelson Totah Jennifer L Zick

The Cultural Nature of Attachment Heidi Keller, Kim A. Bard, 2017-10-30 Multidisciplinary perspectives on the cultural and evolutionary foundations of children s attachment relationships and on the consequences for education counseling and policy It is generally acknowledged that attachment relationships are important for infants and young children but there is little clarity on what exactly constitutes such a relationship Does it occur between two individuals infant mother or infant father or in an extended network In the West monotropic attachment appears to function as a secure foundation for infants but is this true in other cultures This volume offers perspectives from a range of disciplines on these questions Contributors from psychology biology anthropology evolution social policy neuroscience information systems and practice describe the latest research on the cultural and evolutionary foundations on children s attachment relationships as well as the implications for education counseling and policy The contributors discuss such issues as the possible functions of attachment including trust and biopsychological

regulation the evolutionary foundations if any of attachment ways to model attachment using the tools of information science the neural foundations of attachment and the influence of cultural attitudes on attachment Taking an integrative approach the book embraces the wide cultural variations in attachment relationships in humans and their diversity across nonhuman primates It proposes research methods for the culturally sensitive study of attachment networks that will lead to culturally sensitive assessments practices and social policies Contributors Kim Bard Marjorie Beeghly Allyson J Bennett Yvonne Bohr David L Butler Nandita Chaudhary Stephen H Chen James B Chisholm Lynn A Fairbanks Ruth Feldman Barbara L Finlay Suzanne Gaskins Valeria Gazzola Ariane Gernhardt Jay Giedd Alma Gottlieb Kristen Hawkes William D Hopkins Johannes Johow Elfriede Kalcher Sommersguter Heidi Keller Michael Lamb Katja Liebal Cindy H Liu Gilda A Morelli Marjorie Murray Masako Myowa Yamakoshi Naomi Quinn Mariano Rosabal Coto Dirk Scheele Gabriel Scheidecker Margaret A Sheridan Volker Sommer Stephen J Suomi Akira Takada Douglas M Teti Bernard Thierry Ross A Thompson Akemi Tomoda Nim Tottenham Ed Tronick Marga Vicedo Leslie Wang Thomas S Weisner Relindis D Yovsi

Rethinking Environmentalism

Sharachchandra Lele, Eduardo S. Brondizio, John Byrne, Georgina M. Mace, Joan Martinez-Alier, 2019-03-29 A multidisciplinary examination of alternative framings of environmental problems with using examples from forest water energy and urban sectors Does being an environmentalist mean caring about wild nature Or is environmentalism synonymous with concern for future human well being or about a fair apportionment of access to the earth's resources and a fair sharing of pollution burdens Environmental problems are undoubtedly one of the most salient public issues of our time yet environmental scholarship and action is marked by a fragmentation of ideas and approaches because of the multiple ways in which these environmental problems are framed Diverse framings prioritize different values and explain problems in various ways thereby suggesting different solutions Are more inclusive framings possible Will this enable more socially relevant impactful research and more concerted action and practice This book takes a multidisciplinary look at these questions using examples from forest water energy and urban sectors It explores how different forms of environmentalism are shaped by different normative and theoretical positions and attempts to bridge these divides Individual perspectives are complemented by comprehensive syntheses of the differing framings in each sector By self reflectively exploring how researchers study and mobilize evidence about environmental problems the book opens up the possibility of alternative framings to advance collaborative and integrated understanding of environmental problems and sustainability challenges

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