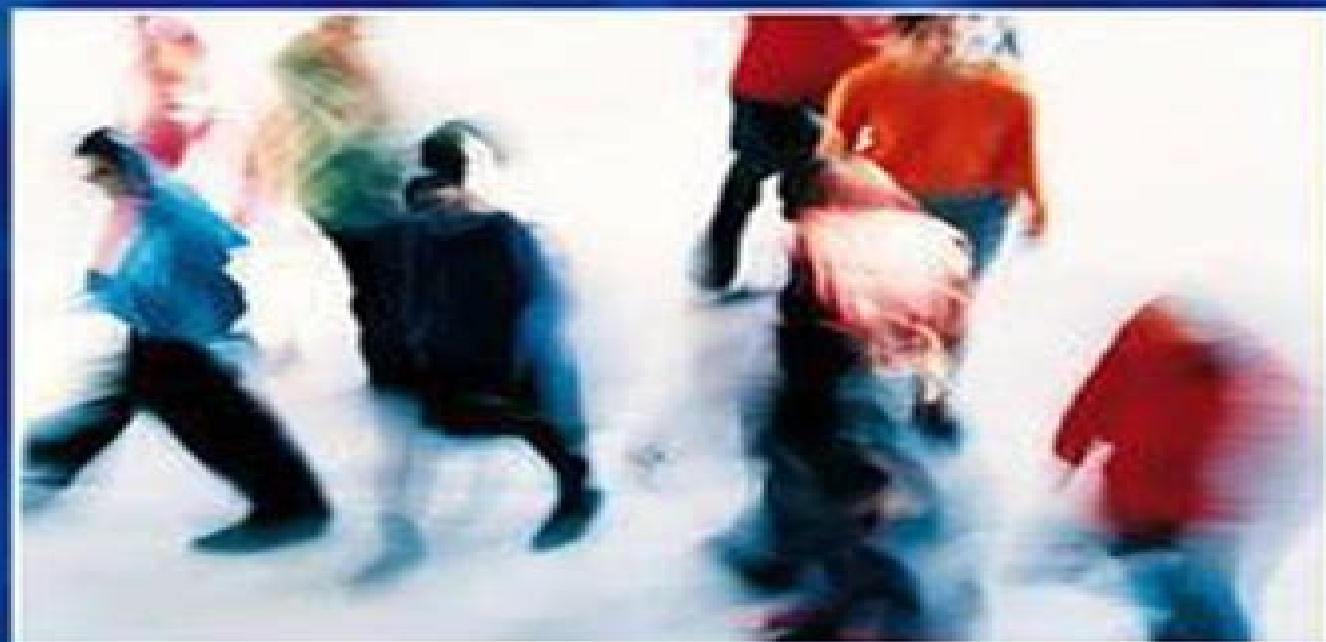


Animal and Translational Models for CNS Drug Discovery

VOLUME 1

Psychiatric Disorders



EDITED BY Robert A. McArthur · Franco Borsini



Animal And Translational Models For Cns Drug Discovery Vol 1 Psychiatric Disorders

**W. Wolfgang Fleischhacker, Ian P.
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Animal And Translational Models For Cns Drug Discovery Vol 1 Psychiatric Disorders:

Animal and Translational Models for CNS Drug Discovery: Psychiatric Disorders Robert A. McArthur, Franco Borsini, 2008-11-17 Psychiatric Disorders is written for researchers in both academia and the pharmaceutical industry who use animal models in research and development of drugs for psychiatric disorders such as anxiety obsessive compulsive disorder depression schizophrenia bipolar disorder ADHD and autistic spectrum disorder Psychiatric Disorders has introductory chapters expressing the view of the role and relevance of animal models for drug discovery and development for the treatment of psychiatric disorders from the perspective of a academic basic neuroscientific research b applied pharmaceutical drug discovery and development and c issues of clinical trial design and regulatory agencies limitations Each volume examines the rationale use robustness and limitations of animal models in each therapeutic area covered and discuss the use of animal models for target identification and validation The clinical relevance of animal models is discussed in terms of major limitations in cross species comparisons clinical trial design of drug candidates and how clinical trial endpoints could be improved The aim of this series of volumes on Animal and Translational Models for CNS Drug Discovery is to identify and provide common endpoints between species that can serve to inform both the clinic and the bench with the information needed to accelerate clinically effective CNS drug discovery This is the first volume in the three volume set Animal and Translational Models for CNS Drug Discovery 978 0 12 373861 5 and is also available for purchase individually Provides clinical academic government and industry perspectives fostering integrated communication between principle participants at all stages of the drug discovery process Critical evaluation of animal and translational models improving transition from drug discovery and clinical development Emphasizes what results mean to the overall drug discovery process Explores issues in clinical trial design and conductance in each therapeutic area Psychiatric Disorders is available for purchase individually

Animal and Translational Models for CNS Drug Discovery Robert A. McArthur, Franco Borsini, 2008-11-27 Animal and Translational Models for CNS Drug Discovery combines the experience of academic clinical and pharmaceutical neuroscientists in a unique collaborative approach to provide a greater understanding of the relevance of animal models of neuropsychiatric disorders and their role as translational tools for the discovery of CNS drugs being developed for the treatment of these disorders The focus of this three volume series of essays is to present a consensual picture of the translational value of animal models from leading experts actively involved in the use of animal models for understanding fundamental neurobiology of CNS disorders and the application of this knowledge to CNS drug discovery and clinical investigators involved in clinical trials drug development and eventual registration of novel pharmaceuticals Each volume of the Animal and Translational Models for CNS Drug Discovery series is dedicated to the development and use of animal models in key therapeutic areas in psychiatric neurologic and reward deficit disorders Each volume has introductory chapters expressing the view of the role and relevance of animal models for CNS drug discovery and development from the

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Animal and Translational Models for CNS Drug Discovery: Reward Deficit Disorders

Robert A. McArthur, Franco Borsini, 2009-02-24 Reward Deficit Disorders is written for researchers in both academia and the pharmaceutical industry who use animal models in research and development of drugs for reward deficit disorders such as alcohol dependence nicotine dependence heroin and cocaine addiction obesity and gambling and impulse control disorders Reward Deficit Disorders has introductory chapters expressing the view of the role and relevance of animal models for drug discovery and development for the treatment of psychiatric disorders from the perspective of a academic basic neuroscientific research b applied pharmaceutical drug discovery and development and c issues of clinical trial design and regulatory agencies limitations Each volume examines the rationale use robustness and limitations of animal models in each therapeutic area covered and discuss the use of animal models for target identification and validation The clinical relevance of animal models is discussed in terms of major limitations in cross species comparisons clinical trial design of drug candidates and how clinical trial endpoints could be improved Reward Deficit Disorders also has a section dedicated to the specifics of the regulatory aspects to abuse liability testing The aim of this series of volumes on Animal and Translational Models for CNS Drug Discovery is to identify and provide common endpoints between species that can serve to inform both the clinic and the bench with the information needed to accelerate clinically effective CNS drug discovery This is the third volume in the three volume set Animal and Translational Models for CNS Drug Discovery 978 0 12 373861 5 which is also available for purchase individually Provides clinical academic government and industry perspectives fostering integrated communication between principle participants at all stages of the drug discovery process Critical evaluation of animal and translational models improving transition from drug discovery and clinical development Emphasizes what results mean to the overall drug discovery process Explores issues in clinical trial design and conductance in each therapeutic area Neurological

Disorders is available for purchase individually Addiction Reviews 2, Volume 1187 George R. Uhl, 2010-03-22 This volume features expert refereed reviews of timely topics in each of the areas relevant to addiction science and clinical practice to aid researchers and practitioners interested in addictions Authors from the United States EU Asia and elsewhere provide an international perspective on the problems and practices Specifically this volume focuses on topics that are relevant to specific substances but also provides important lessons for addiction to all substances provides reviews that are aimed to be useful to specialists in the field and as useful to students as the first criterion allows NOTE Annals volumes are available for sale as individual books or as a journal For information on institutional journal subscriptions please visit www.blackwellpublishing.com nyas ACADEMY MEMBERS Please contact the New York Academy of Sciences directly to place your order www.nyas.org Members of the New York Academy of Science receive full text access to the Annals online and discounts on print volumes Please visit <http://www.nyas.org/MembersCenter/Join.aspx> for more information about becoming a member *Encyclopedia of Psychopharmacology* Ian Stolerman, 2010-07-31 Here is a broad overview of the central topics and issues in psychopharmacology biological psychiatry and behavioral neurosciences with information about developments in the field including novel drugs and technologies The more than 2000 entries are written by leading experts in pharmacology and psychiatry and comprise in depth essays illustrated with full color figures and are presented in a lucid style **Contemporary Aspects of Biomedical Research** , 2009-11-24 Each volume of Advances in Pharmacology provides a rich collection of reviews on timely topics Emphasis is placed on the molecular basis of drug action both applied and experimental Articles written by leading investigators in the field Informs and updates on all the latest developments *Encyclopedia of Movement Disorders* , 2010-02-26 The Encyclopedia of Movement Disorders is a comprehensive reference work on movement disorders encompassing a wide variety of topics in neurology neurosurgery psychiatry and pharmacology This compilation will feature more than 300 focused entries including sections on different disease states pathophysiology epidemiology genetics clinical presentation diagnostic tools as well as discussions on relevant basic science topics This Encyclopedia is an essential addition to any collection written to be accessible for both the clinical and non clinical reader Academic clinicians translational researchers and basic scientists are brought together to connect experimental findings made in the laboratory to the clinical features pathophysiology and treatment of movement disorders The Encyclopedia targets a broad readership ranging from students to general physicians basic scientists and Movement Disorder specialists Published both in print and via Elsevier's online platform of Science Direct this Encyclopedia will have the enhanced option of integrating traditional print with online multimedia Connects experimental findings made in the laboratory to the clinical features pathophysiology and treatment of movement disorders Encompasses a wide variety of topics in neurology neurosurgery psychiatry and pharmacology Written for a broad readership ranging from students to general physicians basic scientists and movement disorder specialists 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 Animal and Translational Models for CNS Drug Discovery: Reward Deficit Disorders Robert A. McArthur,Franco Borsini,2008-10-06 Minimize the number of drug candidates that could later fail in human trials These three volumes provide a unique examination of how animal models are evolving from behavioral gut baths to providing cross species information relevant to human clinical responses Each volume provides the views and experiences of leading pre clinical and clinical investigators who are actively involved in translational research and experimental medicine Each volume is devoted to specific disorders in three scientific fields Psychiatric Neurological and Reward Deficit Clinical academic government and industry perspectives fostering integrated communication between principle participants at all stages of the drug discovery process Critical evaluation of animal and translational models improving transition from drug discovery and clinical development Emphasis on what results mean to the overall drug discovery process Exploration of issues in clinical trial design and conductance in each therapeutic area **Encyclopedia of Schizophrenia** W. Wolfgang Fleischhacker,Ian P. Stolerma,2014-06-17 This mini encyclopedia aims to provide a survey of the wide range of interventions available for treating schizophrenia at a level appropriate for non specialists who are beginning their engagement in the area and for others as a source of reference for the specialist The pharmacological options are considered alongside psychosocial management approaches and the advantages and disadvantages of each treatment modality are outlined The entries are written by leading experts including basic and clinical scientists in academia and industry and include descriptions of many relevant fundamental psychological and biological processes of the disorder The volume owes much to the Encyclopedia of Psychopharmacology edited by Ian Stolerma IP published by Springer Verlag in 2010 from which some entries are reproduced Where entries deal with pharmacological interventions the aim is to provide detailed information on the neuropsychopharmacology of the substances from domains such as clinical experimental and molecular pharmacology insofar as they impact upon understanding of schizophrenia Articles on non drug interventions review the most recent evidence base related to commonly applied psychotherapeutic and rehabilitative measures Other essays focus upon the key concepts and research methods used in the field describing the main features of investigative techniques and outlining their roles the types of information obtained and why they are needed the advantages and limitations of a technique may also be summarized The

essays are complemented by many short definitions of important terms in the interest of ease of reading these definitions are not assigned to named authors they are typically related to specific essays that they cross reference and relevant authorship details can be found in the latter

Obsessive Compulsive Disorder Joseph Zohar, 2012-05-31 Obsessive compulsive disorder OCD remains one of the most challenging disorders of the brain Contemporary conceptualization and therapeutic strategies are undergoing a revolution as a result of new insights derived from modern technological advances This book was conceived in order to present this revolution to the reader It covers current theories regarding the etiology of OCD what is known about the genetics of this disorder evidence from neuroimaging and a discussion of potential endophenotypes There is an evaluation of current treatment approaches for the disorder encompassing psychological psychopharmacological and physical interventions as well as a discussion of treatment resistance The book considers methodological issues plus reviews of OCD in pediatric populations A summary chapter highlights some potential research avenues in a discussion of the future directions in OCD Rather than provide comprehensive coverage repeating material from standard psychiatry textbooks this book focuses on recent information and its application distinguishing it from other titles If you work in children with OCD If you are interested in genetics neurocognition or brain imaging If you work with patients and would like to improve your assessment in OCD and OCD Spectrum disorders to update your therapeutic strategies and to get a handle on cutting edge developments in this intriguing field If you are planning a research project in OCD and would like to get some hints from people who are research leaders in this field and also learn about methodological issues specific to OCD research then this book will be a valuable resource A concise overview of the current state of the art in OCD assessment and treatment including physical interventions and treatment resistance Focuses on scientific advances including specific methodological issues and how they can inform and benefit clinical practice Looks critically and broadly at the diagnostic classification including the ongoing revision of the two major international systems Written by an A list team of experts in the field who have a track record of being engaging authors

Behavioral Neurobiology of Bipolar Disorder and its Treatment Hussein K. Manji, Carlos A. Zarate Jr., 2010-11-10 This book offers the most up to date information about research surrounding the neurobiology of bipolar disorder as well as currently available and novel therapeutic options The volume has assembled a widely respected group of preclinical and clinical researchers who bring their expertise to bear upon this illness by reviewing cutting edge research and clinical evidence regarding the pathophysiology and treatment of bipolar disorder Early chapters review the course and outcome and genetics of this highly heritable condition including chapters on epigenetics and clinical endophenotypes Several chapters offer a remarkably thorough and unique overview of the neurobiology of the disorder including what is known from neuroimaging work and the development of animal models Finally the book covers treatment strategies for bipolar disorder including both traditional and novel therapeutics as well as non pharmacological treatments It offers both researchers and clinicians key insights into this devastating disorder

Handbook on Obsessive-Compulsive

and Related Disorders Katharine A. Phillips, Dan J. Stein, 2015-03-19 Obsessive compulsive and related disorders OCRDs are both prevalent and a source of significant impairment for patients who suffer from them yet they remain underrecognized and underdiagnosed Handbook on Obsessive Compulsive and Related Disorders provides comprehensive and cutting edge coverage of OCRDs for clinicians and trainees in the context of the new classification framework established by the DSM 5 Chapters cover OCD body dysmorphic disorder BDD hoarding disorder trichotillomania hair pulling disorder excoriation skin picking disorder and illness anxiety disorder among other related conditions ensuring that readers are current on both the research on and the standard of care for these illnesses In addition each chapter employs a logical and consistent structure addressing diagnostic criteria and symptomatology epidemiology etiology and pathophysiology comorbidities course and prognosis assessment and differential diagnosis psychosocial impairment and suicidality and other topics such as cultural and gender related issues Treatment approaches and considerations are explored in depth The Handbook's useful features are many The first book focused on the OCRDs to be published since the development of DSM 5 it reflects a deep understanding of the disorders and the DSM 5 development process Readers can depend on the utmost compatibility with DSM 5 because the book was edited by the chair of the DSM 5 work group and the chair of the sub work group that oversaw the development of the OCD category The editors have provided a helpful introductory chapter that thoroughly addresses the changes from DSM IV The book includes a chapter on disorders that were seriously considered for though ultimately not included in the DSM 5 OCD chapter and for which research offers some support for a close relationship to OCD These include tic disorders illness anxiety disorder hypochondriasis and obsessive compulsive personality disorder Case studies are provided in each chapter as well as key clinical points both of which help the reader understand contextualize and make use of the book's content Recommended readings at the end of each chapter offer the opportunity to deepen understanding The costs to society of undiagnosed and or untreated OCD are high in both human and financial terms and clinicians need to master all available tools to help patients and families understand and cope with these disorders Handbook of Obsessive Compulsive and Related Disorders deserves a prominent position both in the literature and on the clinician's bookshelf

The Mouse Nervous System Charles Watson, George Paxinos, Luis Puelles, 2011-11-28 The Mouse Nervous System provides a comprehensive account of the central nervous system of the mouse The book is aimed at molecular biologists who need a book that introduces them to the anatomy of the mouse brain and spinal cord but also takes them into the relevant details of development and organization of the area they have chosen to study The Mouse Nervous System offers a wealth of new information for experienced anatomists who work on mice The book serves as a valuable resource for researchers and graduate students in neuroscience Systematic consideration of the anatomy and connections of all regions of the brain and spinal cord by the authors of the most cited rodent brain atlases A major section 12 chapters on functional systems related to motor control sensation and behavioral and emotional states A detailed analysis of gene expression during development of

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Translational Neuroscience James E. Barrett, Joseph T. Coyle, Michael Williams, 2012-06-28 Translational neuroscience is at the heart of clinical advancement in the fields of psychiatry neurology and neurodevelopmental disorders Written and edited by leading scientists and clinicians this is a comprehensive and authoritative analysis of this emerging strategy for developing more effective treatments for brain disorders Introductory chapters bring together perspectives from both academia and industry while subsequent sections focus on disease groups including bipolar disorder and depression attention deficit hyperactivity disorder substance abuse autism Alzheimer s disease pain epilepsy Parkinson s disease and multiple sclerosis Each section includes topical introductory and summary chapters providing an overview and synthesis of the field Translational Neuroscience Applications in Psychiatry Neurology and Neurodevelopmental Disorders is an important text for clinicians scientists and students in academic settings government agencies and industry as well as those working in the fields of public health and the behavioural sciences

Autism Spectrum Disorder within Neurodevelopmental Disorders: Catching Heterogeneity, Specificity and Comorbidity in Clinical Phenotypes and Neurobiological Bases Eugenia Conti, Mirko Uljarevic, Marco Turi, Francesco Craig, 2022-09-14

Body Dysmorphic Disorder Katharine A. Phillips, 2017 This landmark book is the first comprehensive edited volume on body dysmorphic disorder BDD a common severe and underrecognized disorder Its contributors are leading researchers and clinicians in the field This book fills a major gap in the literature by providing clinicians and researchers with cutting edge indispensable information on all aspects of BDD and its treatment

Animal and Translational Models for CNS Drug Discovery: Neurological Disorders Robert A. McArthur, Franco Borsini, 2008-11-18 Neurological Disorders is written for researchers in both academia and the pharmaceutical industry who use animal models in research and development of drugs for neurological disorders such as neurofibromatosis Alzheimer s disease Parkinson s disease Huntington disease ALS and the epilepsies Neurological Disorders has introductory chapters expressing the view of the role and relevance of animal models for drug discovery and development for the treatment of psychiatric disorders from the perspective of a academic basic neuroscientific research b applied pharmaceutical drug discovery and development and c issues of clinical trial design and regulatory agencies limitations Each volume examines the rationale use robustness and limitations of animal models in each therapeutic area covered and discuss the use of animal models for target identification and validation The clinical relevance of animal models is discussed in terms of major limitations in cross species comparisons clinical trial design of drug candidates and how clinical trial endpoints could be improved The aim of this series of volumes on Animal and Translational Models for CNS Drug Discovery is to identify and provide common endpoints between species that can serve to inform both the clinic and the bench with the information needed to accelerate clinically effective CNS drug discovery This is

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Obsessive-compulsive Disorder Christopher Pittenger, 2017 Obsessive compulsive disorder OCD affects one person in 40 and can cause great suffering This volume provides the first comprehensive summary of our understanding of this enigmatic condition summarizing current work ranging from genetics and neurobiology through cognitive psychology treatment personal experiences and societal implications Schizophrenia Bulletin , 2009

Decoding **Animal And Translational Models For Cns Drug Discovery Vol 1 Psychiatric Disorders**: Revealing the Captivating Potential of Verbal Expression

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