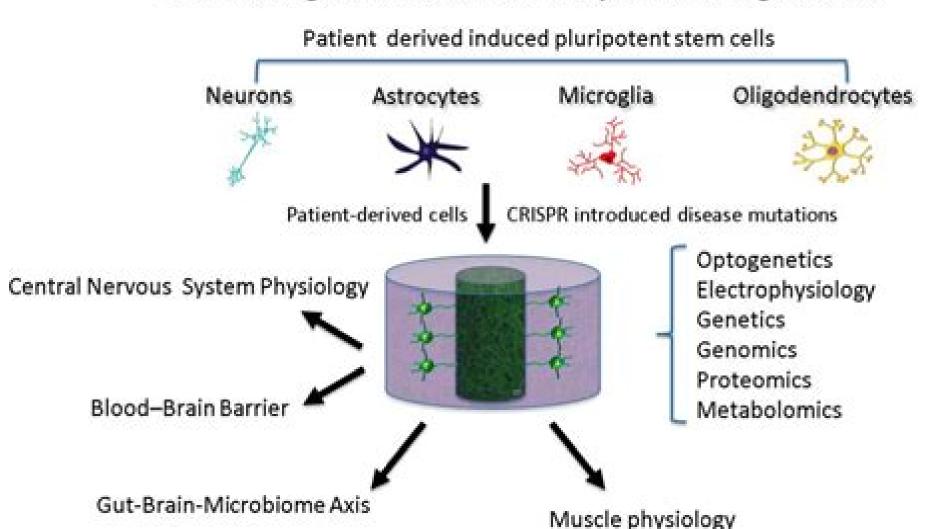
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Models Of Human Neurological Diseases

Ebru Emekli-Alturfan

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biological complexity Finally the book examines the prospects of replacing animal models with animal free methods The Element demonstrates why animal modeling should be of interest to philosophers social scientists and scientists alike

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Toxin-Induced Models of Neurological Disorders A.J. Nonneman, M.L. Woodruff, 2013-11-11 Tbis volume discusses and evaluates the use of neurotoxins to produce animal models of human neurodegenerative diseases. The models presented use neuro toxins to induce some or most of the pathophysiological changes including behavioral that characterize the most studied motor neuron disorders and cogni tive disorders dementia in humans Within the biomedical research community there is little doubt about the utility of such models But with increasing frequen cy individuals concerned with animal rights question the validity of such models and argue that they actually produce no useful information for understanding or developing treatments for human disorders Each of the chapters will address this issue considering the utility validity generalizability and limitations of the models presented Chapter 1 begins with a brief review of the ethics of animal use in neuro biological research including a discussion of the criteria that may be used to evaluate animal models of human disease and extrapolate from the model to appropriate questions regarding humans The limitations of such extrapolation are also discussed with special consideration of issues specific to the use of neurotoxins Chapter 2 extends this theme with further consideration of issues and strategies involved in developing neurotoxin induced models of neuro degenerative disorders and assessing risk factors associated with neurotoxin ex posure It then narrows to evaluate the use of a model systems approach to explore neurotoxin induced learning and memory deficits in animals as related to humans with dementia Mouse Models in the Study of Genetic Neurological Disorders Brian Popko, 2012-12-06 The number of mouse models that are

available for the study of human genetic neurological disorders is large and growing rapidly Therefore it was difficult to select the models that were reviewed in this volume Clearly there are important models that are not discussed and perhaps a volume twice this size would have been more appropriate Moreover the pace at which new models are being developed and analyzed is rapid As this volume goes to press I am sure that additional mouse genes responsible for naturally occurring neurological disorders are being discovered and that many new transgenic and mutant mouse strains are being developed Therefore this volume should not be viewed as a comprehensive compendium but rather as an update of work in progress It is exhilarating to witness the fast pace at which these models are being established as important tools in the study of basic neuroscience and neurological disorders It will be even more exciting to see their utilization in the development and testing of therapeutic interventions for these diseases I would like to thank each of the authors who have contributed to this volume for their time and their expertise I would also like to thank Drs Timothy Coetzee and Joshua Corbin for their advice in the selection of the topics covered I am deeply indebted to Dr Kunihiko Suzuki who first approached me with the idea for this volume for his guidance throughout its preparation *Molecular and Functional Models in Neuropsychiatry* Jim J. Hagan, 2011-04-02 The development of more effective treatments for neuropsychiatric disorders requires scientific progress on a broad front Animal models have a vital role to play in advancing the field When deployed in conjunction with detailed study of these diseases in man they bring the power to make controlled experimental interventions which allow the functional consequences of genetic variations and polymorphisms to be understood in terms of their cellular systems and behavioural effects Further they provide a means by which complex cognitive and behavioural phenomena may be dissected and understood Finally they provide a bridge to understanding the effects of drugs on the functioning of the central nervous system thereby improving our understanding of the actions of those drugs in man **Zebrafish Models of** Neurodegenerative Disorders Ebru Emekli-Alturfan, 2025-09-08 Advancing our understanding of neurodegenerative diseases demands innovative tools and approaches Zebrafish Models in Neurodegenerative Disorders offers a comprehensive examination of zebrafish as a translational model for studying the molecular and cellular mechanisms of diseases such as Alzheimer's Parkinson's and Huntington's diseases Beginning with the first section informing about the basic molecular mechanisms of neurodegenerative disorders biomarkers and therapeutic approaches the book continues with the detailed exploration of zebrafish physiology genetics and behavioural phenotypes as they pertain to neurodegenerative pathologies insight into cutting edge technologies including CRISPR Cas9 genome editing and in depth analysis of zebrafish models highlighting their strengths in modelling disease progression and therapeutic testing

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