



Rodents (mice, rat)
Non-rodents
(dogs, cats, pigs,
rabbits, non-rodent primates)

Animal Models

Open head injury models
Fluid percussion injury
Controlled-cortical impact
Blast injury

Closed-head injury models
Weight-drop model
Piston-driven model

Experimental Animal Models

Experimental Headache Models

Didier Musso



Experimental Headache Models:

Experimental Headache Models Michael A. Moskowitz, 1995 Contains papers from the November 1994 Fifth International Headache Research Seminar in Copenhagen Denmark plus summaries of articles in sections on the general use of models in drug development models currently in use at the preclinical level in migraine research the use of animal experiments to study the neurobiological basis for pain the molecular biology of the 5 HT 1D receptor system in vivo models headache models in humans following nitroglycerin or histamine administration and nonmigrainous headaches Annotation copyright by Book News Inc Portland OR

Innovative Drug Development for Headache Disorders Jes Olesen, Nabih Ramadan, 2008-08-21 This latest volume of the Frontiers in Headache Research series summarizes the several promising new avenues for the development of future drugs for the treatment of migraine

Handbook of Animal Models in Neurological Disorders Colin R. Martin, Vinood B. Patel, Victor R Preedy, 2022-11-29 Handbook of Animal Models in Neurological Disorders will better readers understanding of a large variety of animal models and their applicability in studying a number of neurological disorders Featuring sections on brain injury stroke and neuroinflammation this volume discusses in detail the utility success and pitfalls of multiple models for each condition Multiple disorders are covered ranging from neurodegenerative diseases like Alzheimer s Parkinson s and ALS to multiple sclerosis headache migraine and others With expert authors this book has applicability for anyone pursuing neuroscience or biomedical research working to better understand study and ultimately treat neurological dysfunction Summarizes animal models for a variety of neurological conditions Contains chapter abstracts key facts a dictionary and a summary Covers both neurodegenerative diseases and other neurological conditions Compares and contrasts different models and experimental systems Includes sections on Alzheimer s Parkinson s brain injury migraine multiple sclerosis and more

Pathophysiology of Headaches Messoud Ashina, Pierangelo Geppetti, 2015-04-14 This book provides a detailed overview of the current state of knowledge regarding the pathophysiology of both primary headaches migraine tension type headache TTH and cluster headache and the very important and frequent type of secondary headache medication overuse headache MOH After an introductory chapter describing relevant neuroanatomy and vascular anatomy the evidence gained from animal models regarding the pathophysiology of migraine and the other primary headaches is reviewed Knowledge of the genetic component in the different types of headache is then examined with reference to recent evidence for example regarding the implication of the trigeminovascular system and cortical spreading depression in migraine Detailed information is provided on insights into primary headaches from imaging studies including functional magnetic resonance imaging and positron emission tomography and on their neurophysiology and biochemistry A further series of important chapters describe present knowledge of the pathophysiology of each specific type of headache and consider future directions Written by acknowledged experts in their fields from Europe and the United States clinicians and students will find Pathophysiology of Headaches to

be an excellent source of up to date information on why patients experience headaches In addition it will be of value for pain researchers investigating the underlying mechanisms of headache

Placebos and Nocebos in Headaches Dimos D. Mitsikostas, Fabrizio Benedetti, 2019-02-11 This book discusses the role of placebos and nocebos in the treatment of headache disorders These disorders are usually treatable but safety and tolerability issues mean that available preventive treatments have often limited success even in the right hands one in five patients treated with a migraine preventive pharmaceutical agent discontinues treatment for those reasons The nocebo effect plays a role here with patients negative expectation and previous unpleasant treatment experiences creating negative belief in the treatment s benefits and safety which in turn limits treatment outcomes and adherence significantly In RCTs on migraine prevention one in 20 patients treated with a placebo discontinued treatment because of adverse events indicating a considerable nocebo effect the fewer potential adverse events described in the consent form the smaller the nocebo effect As such physicians treating headache sufferers should acknowledge nocebo as a significant cofactor for treatment adherence and failure and plan techniques to limit the effects such as patient education and close follow up This highly informative and painstakingly presented book provides scientific insights for professionals and scholars with an interest in internal medicine neurology and pain medicine

The Headaches Jes Olesen, 2006 Established worldwide as the one definitive encyclopedic reference on headache The Headaches is now in its thoroughly revised updated Third Edition The foremost international authorities examine the mechanisms of over 100 types of headache and provide evidence based treatment recommendations including extensive tables of controlled clinical trials This edition presents the revised International Headache Society classification of headaches and explains how to use this new classification for accurate diagnosis Many headache entities are discussed for the first time such as chronic migraines primary headache attributed to sexual activity primary stabbing cough exertional and thunderclap headaches hypnic headaches and new daily persistent headaches A new section focuses on childhood headaches Chapters that focus on headaches in elderly patients and patients with psychiatric or medical diseases are also included

Headache Giuseppe Nappi, Michael A. Moskowitz, 2010-11-30 Handbook of Clinical Neurology Headache covers various aspects of headaches It covers up to date information about the cultural developments and the scientific advances in the field of neurological science One of the most frequent symptoms that people encounter is migraine or other type of headaches At least 40% of neurological consultations are headache related With this significant advances in basic and applied brain sciences have emerged in the field of headache related problems Divided into six sections the book discusses the socioeconomic aspects of headaches the contribution of biological sciences to the study of the pathophysiology of headache and the management of headache and other related problems It also deals with headache related issues such as pathogenic chronobiological endocrinological and neuroimaging correlates nosographic i e migraine vertigo and headache in children and treatment related issues The book will serve as a reference for researchers clinical physicians and other readers who want additional

knowledge about the clinical features of headaches Verification of Animal Pain Models by Reverse Translation Robert M. Caudle, E. Alfonso Romero-Sandoval, Maree Therese Smith, 2021-12-06 Cluster Headache and Related Conditions Jes Olesen, Peter J. Goadsby, 1999 Cluster headache affects 0.1% of the population and is a severe form of primary headache This volume of *Frontiers in Headache Research* is the only up to date and comprehensive review of the condition and its related disorders The book begins with a discussion of the basic circadian biology of the condition followed by an overview of relevant epidemiological studies Cluster headache is then described in comparison with related disorders including paroxysmal hemicrania SUNCT hemicrania continua and hypnic headache and the system of classification discussed The volume then moves on to look at the wealth of basic research into cluster headache including animal studies work on the autonomic nervous system in man neuropeptide research studies of biological rhythms the associated endocrinology information derived from neuroimaging and the influence of genetic factors The final sections of the book examine acute treatment prophylaxis the potential for surgical treatment and the opportunities for further innovative therapies The contributing authors are all international specialists in this field **Headache Quarterly**, 2000 **Chicago Medicine**, 1997 Headache Pathogenesis Jes Olesen, 1997 The contributors to this volume explore the role of several messenger molecules in the pathogenesis of migraine tension type headache and cluster headache Coverage includes extensive studies of these molecules and their receptors in the cranial blood vessels as well as measurements in patients during actual migraine and other headache attacks The findings presented are important to the development of anti migraine drugs targeted to specific receptors Headaches Richard C. Peatfield, David W. Dodick, David Dodick, 2002 The management of people suffering with headaches forms a substantial part of the workload of the family physician and the practising neurologist While some patients can perform normally using self medication headache can be a symptom of a potentially serious illness and disabling headaches either continuous or as intermittent attacks require careful assessment and treatment *Fast Facts Headaches* equips the primary care physician with the knowledge required to accurately investigate assess and treat or refer the patient presenting with disabling primary headache Enables physicians to distinguish between the benign and potentially life threatening condition An expert guide to differential diagnosis Reviews current processes of assessment summarises current thinking on pathogenesis and covers management of common forms of disabling headache Key points are summarised at each chapter end and clear simple diagrams and tables support clinical information Contents Differential diagnosis Epidemiology Clinical features of migraine and tension headaches Mechanisms of migraine Precipitating causes Acute treatment Prophylactic treatment Chronic daily headache Cluster headache Post traumatic headache Future trends *Abstracts of the ... Annual Meeting of the European Neuroscience Association* European Neuroscience Association. Meeting, 1988 Wolff's Headache and Other Head Pain Harold George Wolff, Donald J. Dalessio, 1993 Since the fifth edition of this classic volume was published a great deal of progress has been made in the study

of headache and much more is known about its mechanisms neurobiology and epidemiology The discovery of serotonin receptors in the brain has led to a new class of drugs for treating headache and an updated international classification of the various types of headache has been published These latest developments are covered in the sixth edition of Wolff's Headache for which Donald Dalessio has been joined by Stephen Silberstein as co editor New chapters have been written on diagnosis migraine headache due to abnormal intracranial pressure and clinical observations Many of the other chapters have been completely rewritten and the rest have been thoroughly updated

Reducing the Burden of Headache Jes Olesen, Timothy J. Steiner, Richard B. Lipton, 2003 This is the first book devoted to the study of the social and economic consequences of headache Reducing the Burden of Headache analyses the financial cost of headache diseases the disability and suffering they cause and the impact they have on the quality of life of the sufferers and their families These are issues of major importance migraine appears in the top 20 list of diseases ranked according to years lived with disability Headache in general is thought to account for approximately 20% of all days lost from work Of even greater importance is the impact on everyday life studies have shown that migraine has a greater impact on the quality of life of sufferers than many other diseases generally considered to be more serious This book describes and analyses the epidemiological data accumulated in the field and suggests guidelines and interventions aimed at improving healthcare for headache Adoption of these suggestions combined with judicious use of existing resources and modern treatment options can lead to great improvements in the lives of headache sufferers world wide This book will be of interest to neurologists general practitioners epidemiologists public health specialists health service managers and all those interested in improving services and outcomes for sufferers of headache

Cephalalgia, 1983

Headache Treatment Jes Olesen, Peer Tfelt-Hansen, 1997

The Triptans Patrick Humphrey, M. D. Ferrari, Jes Olesen, 2001 A new era in the treatment of migraine headache arrived with development of a revolutionary class of drugs known as the triptans The book describes the development of this class of drugs starting with the discovery of sumatriptin covers the pharmacology and the mechanisms of action of the full range of triptans before comparing their clinical efficacy and tolerability Each drug is described by the company who produces it and then reviewed based on experimental and clinical evidence by independent scientists This comprehensive review will provide clinicians with guidance on which triptan to select for which patient The editors have gathered together the leading international experts to produce a book that will appeal to all neurologists and general physicians caring for headache patients as well as those with research interests in the field

The Annals of Pharmacotherapy, 1996

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