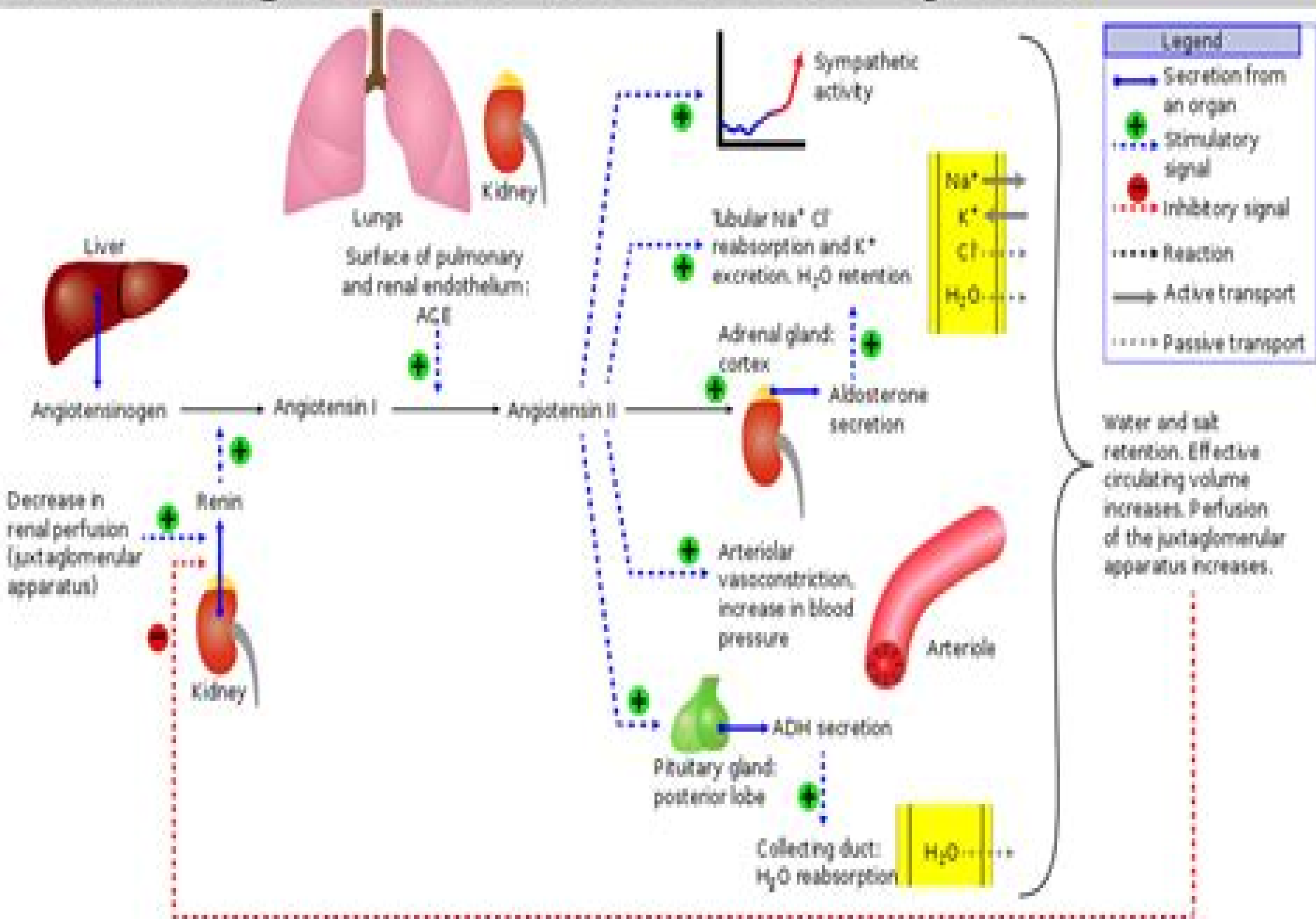


Renin-angiotensin-aldosterone system



Regulation Of Aldosterone Biosynthesis

Jürg Müller



Regulation Of Aldosterone Biosynthesis:

Regulation of Aldosterone Biosynthesis Jürg Müller, 2012-12-06 Most of our knowledge of the physiological control of aldosterone secretion is based on animal experiments and clinical studies which were carried out in the 1950s and early 1960s by a large number of inspired ingenious and meticulous researchers Their work has been excellently reviewed by among others MULLER 1963 BLAIR WEST et al 1963 LARAGH and KELLY 1964 GANONG et al 1966 MULROW 1966 DAVIS 1967 and GROSS 1967 According to the majority of these investigators aldosterone secretion is primarily regulated by the renin angiotensin system with plasma sodium and potassium levels and pituitary secretion of ACTH playing important secondary roles During the last six years this hypothesis has been generally accepted and has only occasionally been challenged The following is an attempt to take from the perspective of a relatively simple in vitro model a new look at the efferent axis of the apparently very complex control system maintaining adequate aldosterone production in the mammalian organism My views are based mainly on a series of experiments which I have performed in order to study more closely the interactions of adrenocortical tissue with substances capable of directly influencing aldosterone biosynthesis

Regulation of Aldosterone Biosynthesis Jürg Müller, 2012-12-06 Sixteen years is a long time not only in human life but also in the rapid history of contemporary endocrinology Since the publication of the first edition of this monograph numerous new lines of research and discoveries have greatly contributed to our knowledge of the physiological and pathological regulation of aldosterone biosynthesis in man and animals The first reports about a sensitive radioimmunoassay for plasma aldosterone and about a preparation of dispersed zona glomerulosa cells were published in 1970 Mayes et al 1970 Haning et al 1970 These two developments alone turned out to have a tremendous impact on research in aldosterone physiology for reviews see Coghlan et al 1979b J F Tait et al 1980b In 1971 atrial natriuretic peptides somatostatin and the precursor molecule of ACTH had not yet been discovered Angiotensin antagonists and converting enzyme inhibitors were not yet available The clinical syndrome of hypo reninemic hypo aldosteronism was unknown The possible roles of prostaglandins and dopamine in the control of aldosterone production had not been considered Cyclic AMP was then the only substance with a clearly established second messenger function

Regulation of Aldosterone Biosynthesis Dr Jurgen Muller, 1987-11-27

Pediatric Adrenal Diseases Lucia Ghizzoni, M. Cappa, G. P. Chrousos, S. Loche, M. Maghnie, 2011 Written by experts and specialized investigators this book presents a detailed overview of the recent progress in our understanding of the adrenal cortex and its pivotal roles in homeostasis Genes molecules and cell compartments directly or indirectly involved in the complex steroidogenesis pathway as well as the resulting end hormones glucocorticoids mineralocorticoids and androgens are analyzed Furthermore the defects of the genes responsible both for common and rare adrenal disorders are presented The interactions of the adrenal cortex with the adrenal medulla and their importance in the integration of adrenocortical and adrenomedullary function are discussed The complex molecular pathophysiology of congenital adrenal hyperplasia is

presented long term effects of the disorder and the still controversial antenatal therapy are examined Finally expert review chapters discuss autoimmune Addison disease and the adrenoleukodystrophy adrenomyeloneuropathy syndrome Presenting novel research findings in adrenal gland physiology and pathophysiology this book is a useful tool not only for pediatric endocrinologists but also for clinicians and researchers studying human development organogenesis mitochondrial biology nuclear receptors stress biology and pharmacology

Hydro Saline Metabolism Massimiliano Caprio,Fabio Luiz Fernandes-Rosa,2023-10-12 This book provides an overview of endocrine diseases associated with alterations of salt metabolism with a focus on clinical and pathophysiological aspects It covers various topics in the endocrine control of salt and water homeostasis such as neuroendocrine determinants of water balance adrenal hormone biosynthesis hormonal function in target renal cells and dysfunction of hormonal target effectors in the kidney It also features an update on the clinical management of these diseases including new diagnostic and therapeutic tools Written by a combination of recognized and emerging experts in the field this book is intended as a major reference work not only for endocrinologists and nephrologists but also for pediatricians neonatologists cardiologists and emergency medicine and intensive care specialists who can be faced with the management of endocrine diseases responsible of salt and water imbalance The book is part of the SpringerReference program which provides access to living editions that are constantly updated using a dynamic peer review publishing process

Drugs, Enzymes and Receptors of the Renin-Angiotensin System Ahsan Husain,Robert M. Graham,2003-09-02 Since 1898 when Tigerstadt and Bergman first extracted renin from rabbit kidney the renin Enzymes and Receptors of the Renin is designed to highlight molecular and clinical approaches to understanding the renin Chapter topics have been specifically chosen to cover selected contemporary controversial and unresolved issues A novel and uni

Primary Aldosteronism Per Hellman,2014-03-28 Primary Aldosteronism PA is a disease caused by the overproduction of aldosterone hormone from the adrenal glands PA causes hypertension and the majority with this disease are undiagnosed for PA There are new insights into this matter by using biochemistry as well as advanced radiology In 2011 a breakthrough in the genetic derangements came identifying a mutated potassium channel gene KCNJ5 in about 40% of PA with adenoma Chapters in this book include a history of the disorder epidemiology genetics derangements the KCNJ5 mutations and phenotype and more

Steroid Biochemistry R. Hobkirk,2018-01-17 An attempt has been made to attract contributions which illustrate the importance of certain enzymatic processes involved in steroid biosynthesis and metabolism and in some cases leading to steroidal action in target sites Investigators actively engaged in research in such areas were invited to present their material in a manner which they considered fitting It is hoped that as a result if this the publication will possess sufficient depth to warrant approval The blend of review material and experimental data originating in the author laboratories will it is felt make for useful reading

[Hypertension - E-Book](#) George L. Bakris,Matthew Sorrentino,Luke J. Laffin,2023-08-29 Selected for Doody s Core Titles 2024 in Cardiology Part of the renowned Braunwald

family of references Hypertension A Companion to Braunwald's Heart Disease provides today's clinicians with clear authoritative guidance on every aspect of managing and treating patients who suffer from hypertensive disorders An invaluable resource for cardiologists endocrinologists and nephrologists this one stop reference covers all the latest developments from basic science to clinical trials and guidelines related to the treatment of common to complex hypertension Now fully updated from cover to cover the 4th Edition offers unparalleled coverage of hypertension in an accessible and user friendly manner Thoroughly covers new treatment guidelines related to recent research and the latest physiologic understanding for a wide range of patients with hypertension and related co morbidities Includes new chapters on Hypertension in Women Mineralocorticoid Receptor Antagonists Exercise and Hypertension and Telemedicine Digital Health Contains new or expanded content on epidemiology pathophysiology immunology clinical findings laboratory testing invasive and non invasive testing risk stratification clinical decision making prognosis and management Provides new chapter summaries and a new focus on clinical and actionable content using a streamlined narrative format Covers behavior management and prevention as an integral part of hypertensive and pre hypertensive treatment plans Highlights combination drug therapies and management of chronic complications of hypertension Offers expert guidance from worldwide experts in cardiology endocrinology and nephrology and integrates the most recent guidelines from leading organizations around the world

Circulating Regulatory Factors and Neuroendocrine Function Daniela Jezová, John C. Porter, 2013-04-09 During the past several decades much research effort has gone into the elucidation of the role of neuroendocrine systems as secretory and metabolic regulators of cells of a variety of organs and structures including the testes ovaries adrenals thyroid pituitary gland and mammary glands However the role of cells comprising such organs and structures in the modulation of neuroendocrine processes has received considerably less is generally less well appreciated attention and Nonetheless it is important that we understand the actions on neuroendocrine systems of substances that reach the brain by way of the vasculature including hormones cytokines toxins amino acids drugs and similar agents In order to analyze the present state of knowledge on this topic experimental scientists and clinicians whose shared interests include actions of circulating agents on the brain met at a satellite symposium of the XXXI International Congress of Physiological Sciences This symposium entitled Circulating Regulatory Factors and Neuroendocrine Function was held in Smolenice Castle Czechoslovakia June 26 July 1 1989 and reviews delivered at this symposium as invited presentations are published in this volume Presentations given as free communications have been published separately and are available in Endocrinologia Experimentalis 24 1 273 1990

Expanding spectrum of primary aldosteronism: Exploring new grounds Norlela Sukor, Troy Puar, Sarat Sunthornyothin, Nor Azmi Kamaruddin, 2023-05-12

Cortisol - Between Physiology and Pathology Diana Loreta Păun, 2024-03-06 The book is an exploration of the biology and pathophysiology of cortisol a crucial hormone for survival from the perspective of a multidisciplinary team of international experts From presenting the current

state of knowledge in the field of hormone physiology to discussing aspects related to cortisol measurement methods the book raises a series of challenges for both endocrinologists and physicians from other specialties It addresses interesting topics such as the role of enzymes involved in adrenal steroidogenesis the connection between cortisol and obesity and the role of hormone therapy in multiple sclerosis Textbook of Vascular Medicine Rhian M. Touyz, Christian Delles, 2019-08-02 This textbook focuses on the vascular biology and physiology that underlie vascular disorders in clinical medicine Vascular biomedicine is a rapidly growing field as new molecular mechanisms of vascular health and disease are unraveled Many of the major cardiovascular diseases including coronary artery disease heart failure stroke and vascular dementia are diseases of the vasculature In addition vascular injury underpins conditions like kidney failure and cardiovascular complications of diabetes This field is truly multidisciplinary involving scientists in many domains such as molecular and vascular biology cardiovascular physiology and pharmacology and immunology and inflammation Clinically specialists across multiple disciplines are involved in the management of patients with vascular disorders including cardiologists nephrologists endocrinologists neurologists and vascular surgeons This book covers a wide range of topics and provides an overview of the discipline of vascular biomedicine without aiming at in depth reviews but rather offering up to date knowledge organized in concise and structured chapters with key points and pertinent references The structure of the content provides an integrative and translational approach from basic science e g stem cells to clinical medicine e g cardiovascular disease The content of this book is targeted to those who are new in the field of vascular biology and vascular medicine and is ideal for medical students graduate and postgraduate students clinical fellows and academic clinicians with an interest in the vascular biology and physiology of cardiovascular disease and related pathologies Endocrinology of Cardiovascular Function Ellis R. Levin, Jerry L. Nadler, 2012-12-06 Endocrinology of Cardiovascular Function is a fitting inauguration to the Endocrine Update Series The aim of these publications is to provide the clinician with cutting edge yet succinct access to the latest advances in endocrinology Historically our understanding of hormonal disturbances was restricted to the classical secretory glands and their targets As Endocrinology of Cardiovascular Function so aptly indicates endocrinology is no longer constrained by our early physiologic understanding of glandular disorder Endocrinology of Cardiovascular Function has set the standard of excellence for the future volumes in this series Shlomo Melmed M D Series Editor Endocrine Update Growth factors such as IGF 1 play important roles in cardiovascular cell hypertrophy and the response to acute vascular injury From another perspective traditional endocrine hormones such as estrogen have been found to participate in preventing the development of atherosclerosis in women acting through novel mechanisms on target vascular cells Other endocrine hormones such as PTHRP and adrenomedullin also modulate cardiovascular and renovascular dynamic states suggesting new roles for these peptides as vasodilators This multi authored text is dedicated to highlighting emerging and important new information regarding the endocrinology of the cardiovascular system Ellis R Levin M D **Angiotensin Vol. II** Thomas

Unger, Bernward A. Schölkens, 2012-02-02 Nearly thirty years ago in 1974 the volume on Angiotensin edited by Irvine H Page and F Merlin Bumpus expanded the Handbook of Experimental Pharmacology Even after two decades the multiplicity of its actions appears not to have been fully discovered To call attention to its many functions is one of the purposes of this book This new edition of the volume on Angiotensin attempts to provide an updated account of the knowledge and findings accumulated since the complexity of angiotensin was so accurately recognized **Angiotensin** I.H. Page, F.M. Bumpus, 2012-12-06 The history of arterial hypertension is both long and short long since BRIGHT 1827 first related hardness of the pulse to hardness of the kidneys and hyper trophy of the heart short in that modern research began in the late twenties Most of what we know of these diseases has been discovered in the past fifty years The modern story should have begun in 1897 when an extract of kidney was shown to be pressor But little was done with knowledge until about 1929 when the relationship of this kidney extract called renin to hypertension was pos tulated The pressor effects were however unlike most of those seen with sub stances such as epinephrine or vasopressin Plasma was required for action of renin and the active substance appeared to be protein In 1939 it was shown that renin was not in itself a pressor substance but rather a proteolytic enzyme which produced a powerful pressor substance acting on a substrate synthesized by the liver Later it was noted that the first definable step after the formation of this peptide was cleaving of the decapeptide which had little or no demonstrable activity with loss of two amino acids to form the octapeptide called angiotensin Within a decade synthesis was achieved which made the substance available for world wide study **Cumulated Index Medicus**, 1997 **Hormones in normal and abnormal human tissues. Volume 2** Kenneth Fotherby, 2019-07-08 No detailed description available for HORM NORM ABNORM HUMAN TISS V 2 FOTHERBY HNAHT E BOOK *Textbook of Nephro-Endocrinology* Ajay K. Singh, Gordon H. Williams, 2017-11-28 Textbook of Nephro Endocrinology Second Edition continues to be the definitive translational reference in the field of nephro endocrinology investigating both the endocrine functions of the kidneys and how the kidney acts as a target for hormones from other organ systems It offers researchers and clinicians expert analyses of nephro endocrine research and translation into the treatment of diseases such as anemia chronic kidney disease CKD rickets osteoporosis and hypoparathyroidism Changes to this edition include new chapters focused on hypercalcemia hypocalcemia and the interaction of dialysis chronic renal disease and endocrine diseases All chapters have been updated to include more preclinical data and more tables and schema that help translate this data into clinical recommendations The section on hormones and renal insufficiency discusses insulin diabetes growth hormone sex steroids thyroid hormone acid base disturbances and pregnancy Presents a uniquely comprehensive and cross disciplinary look at all aspects of nephro endocrine disorders in one reference Investigates both the endocrine functions of the kidneys and how the kidney acts as a target for hormones from other organ systems Offers clear translational presentations by the top endocrinologists and nephrologists in each specific hormone or functional systems field Features new and updated chapters that include more

tables and schema to help translate preclinical data into clinical recommendations *ACTH Action in the Adrenal Cortex: From Molecular Biology to Pathophysiology* Nicole Gallo-Payet, Antoine Martinez, André Lacroix, 2017-07-27 By stimulating adrenal gland and corticosteroid synthesis the adrenocorticotrophic hormone ACTH plays a central role in response to stress In this Research Topic a particular attention has been given to the recent developments on adrenocortical zonation the growth promoting activities of ACTH the various steps involved in acute and chronic regulation of steroid secretion by ACTH including the effect of ACTH on circadian rhythms of glucocorticoid secretion The Research Topic also reviews progress and challenges surrounding the properties of ACTH binding to the MC2 receptor MC2R including the importance of melanocortin 2 receptor accessory protein MRAP in MC2R expression and function the various intracellular signaling cascades which involve not only protein kinase A the key mediator of ACTH action but also phosphatases phosphodiesterases ion channels and the cytoskeleton The importance of the proteins involved in the cell detoxification is also considered in particular the effect that ACTH has on protection against reactive oxygen species generated during steroidogenesis The impact of the cellular microenvironment including local production of ACTH is discussed both as an important factor in the maintenance of homeostasis but also in pathological situations such as severe inflammation Finally the Research Topic reviews the role that the pituitary adrenal axis may have in the development of metabolic disorders In addition to mutations or alterations of expression of genes encoding components of the steroidogenesis and signaling pathways chronic stress and sleep disturbance are both associated with hyperactivity of the adrenal gland A resulting effect is increased glucocorticoid secretion inducing food intake and weight gain which in turn leads to insulin and leptin resistance These aspects are described in detail in this Research Topic by key investigators in the field Many of the aspects addressed in this Research Topic still represent a stimulus for future studies their outcome aimed at providing evidence of the central position occupied by the adrenal cortex in many metabolic functions when its homeostasis is disrupted An in depth investigation of the mechanisms underlying these pathways will be invaluable in developing new therapeutic tools and strategies

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