

## Regulatory peptides in renal failure: effects and possible pathophysiological role

Regulatory peptides are present in most of the tissues of the body where they are stored in and released from widespread specific endocrine cells and neurons. Regulatory peptides are believed to participate in the regulation of several body functions including digestion, respiration, kidney functions, mental functions, cardiovascular functions and response to injury. The kidneys play an important role in the metabolism and excretion of several regulatory peptides (1-3), and many regulatory peptides regulate or modulate kidney functions, either directly by acting on the glomerulus and tubular systems (4, 5) or indirectly by acting on the cardiovascular system, renin-angiotensin-aldosterone system, the antidiuretic hormone or the adrenergic or cholinergic nervous systems. Kidney dysfunction, therefore, results in derangement (usually elevations) of peptide concentrations in plasma. Furthermore, renal failure and hemodialysis are frequently accompanied by symptoms from several organ systems, some of which may be partly due to elevated concentrations of regulatory peptides in the circulation. Of particular interest in this context are the cardiovascular, renal, gastrointestinal and inflammatory effects of regulatory peptides known to be present in elevated concentrations in renal failure.

Chronic renal failure is frequently associated with hypertension, and hypotensive episodes may develop during hemodialysis. Vasoactive regulatory peptides are likely to play a role in the pathogenesis of these cardiovascular symptoms. Several regulatory peptides have powerful effects on the motility and secretory mechanisms of the gastrointestinal tract. Elevated plasma concentrations of these peptides may contribute to the anorexia, nausea and diarrhea associated with renal failure. Itching, a distressing symptom of renal failure, is frequently associated with secondary hyperparathyroidism, which, however, cannot be the sole pathogenetic mechanism of this symptom. Interestingly, several regulatory peptides which are present

in elevated plasma concentrations in renal failure have been shown to participate in inflammatory reactions in the skin, and cause itching upon local injection in the skin.

The purpose of the present brief presentation is to bring together information about regulatory peptides in renal failure, with emphasis on the renal, cardiovascular and gastrointestinal systems and on symptoms which may be due to derangement of the peptidergic transmitters. The well known important role of the renin-angiotensin-aldosterone system in this respect will only be briefly mentioned whereas emphasis will be on the more recently discovered peptides atrium natriuretic peptide (ANP), calcitonin gene-related peptide (CGRP), endothelin, neurokinin B (NKB), vasoactive intestinal polypeptide (VIP) and the tachykinins (TK). ANP because of its established role in sodium and volume regulation under conditions of chronic fluid overload and NPY, VIP, tachykinins, CGRP and endothelin because of their unequivocal presence in perivascular nerve structures. Several of these latter regulatory peptides are believed to participate in the non-adrenergic, non-cholinergic nervous control of the cardiovascular nervous system, in control of secretory mechanisms and smooth muscle functions as well as in inflammatory reactions. Furthermore, since drugs which decrease the plasma concentrations of regulatory peptides have become available recently for use in humans, the potential benefit of these drugs in selected patients with renal failure will be discussed.

### Renal metabolism of regulatory peptides

Metabolism and excretion of regulatory peptides in the kidneys accounts for a major fraction of their total metabolic clearance rate in mammals (6, 7). Inactivation of regulatory peptides in the kidney is accomplished by at least three different mechanisms; a) endocytosis by the proximal tubular cells by a

# Regulatory Peptides

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## **Regulatory Peptides:**

*Regulatory Peptides* J.M. Polak, 2013-03-07 J M Polak and S R Bloom For some time *Experientia* has published as a unique feature interdisciplinary multi author reviews giving a comprehensive overview of subjects regarded as growing edges of science The enthusiasm shown by the readers was contagious and thus it was felt necessary to compile a special volume dealing with the novel aspects of regulatory peptides This book covers some of the growing areas in regulatory peptide research and although it is based on the original volume of *Experientia* it is expanded and updated The topic of regulatory peptides is relatively young and has grown at an unprecedented pace from the embryonic conception of gut hormones or brain neuropeptides some 15 years ago to the realisation that these active peptides are found almost without exception in every part of the body in all vertebrate and many invertebrate species Why the term regulatory peptides It represents a convenient label encompassing both the active peptides present in nerves which are released as putative neurotransmitters and those in endocrine cells which act locally or at a distance as circulating hormones these being the 18 main components of the so called diffuse neuroendocrine or APUD system Morphological studies support this physiological viewpoint

*Gastrointestinal Regulatory Peptides* David R. Brown, 2012-12-06 Since the discovery of the pancreatic secretagogue secretin by W M BAYLISS and E H STARLING at the inception of the twentieth century intense interest has focused on numerous continually expanding classes of small peptides which appear to serve as regulatory molecules in the gastrointestinal tract brain and other organ systems Initially many of these substances were like secretin discovered in functional assays as factors or activities extractable in minute quantities from tissues or tissue fluids By the middle of the century advances in biochemical and immunological methods for the purification characterization and quantification of biologically active peptides in organ systems tissues and body fluids provided further impetus to this field It was readily appreciated that small biologically active peptides were particularly abundant in the digestive tract Many peptides such as vasoactive intestinal peptide gastrin and more recently peptide YY and galanin were in fact originally discovered in and isolated from gut tissue Moreover these peptides were found to have profound actions on the gastroenteropancreatic system in vivo and in vitro During the past 2 decades information on regulatory peptides has burgeoned as a result of technological refinements in the synthesis of peptides improved methods for detecting and visualizing peptides and their precursors in cells and tissues from a variety of species advances in the functional assessment of peptide activity and the application of molecular biological techniques to the characterization of peptide gene structure and expression

**Regulatory Peptides in Neuroscience and Endocrinology: A New Era Begins** Lee E. Eiden, Limei Zhang, Colin Brown, David Vaudry, 2019 This Research Topic features recent developments in the field of regulatory peptide physiology and peptide based therapeutics

*Neuropeptide Function in the Gastrointestinal Tract* Edwin E. Daniel, 2019-08-15 First published in 1991 This book assimilates and evaluates the rapidly accumulating information regarding neuropeptides in the gut their chemistry genetic

control processing in enteric nerves the projections of their nerves their actions at the tissue cell and molecular levels and their roles in controlling gut motility in health and disease Neuropeptide Function in the Gastrointestinal Tract is directed to scientists in all disciplines who work with neuropeptides as well as physiologists interested in the neural and smooth muscle actions of neuropeptides      **Trends in Regulatory Peptides** Hubert Vaudry,Marie-Christine Tonon,David

Vaudry,2018-07-24 Regulatory peptides represent the most diverse and versatile family of messenger molecules They are produced by all living organisms from bacteria to mammals They are involved in a wide variety of biological functions Biologically active peptides and their receptors thus constitute an unlimited source of inspiration for the development of innovative drugs and cosmetics The present eBook is a unique collection of research articles and reviews that provide a representative exemplification of the latest progress in regulatory peptide research      The Comparative Physiology of

Regulatory Peptides Susanne Holmgren,2012-12-06 Strictly speaking the term regulatory peptides may include any peptide which has a regulatory function in any organism In recent years how ever the term has come to mean those originally classified as brain gut peptides The peptides initially defined as those belonging to the brain gut axis had a dual location in neurones of the brain and endocrine cells of the gut We now include a number of neuropeptides found in the autonomic nervous system of the gut the cardiovascular system and other systems To many scientists comparative physiology means comparison of the mechanisms of certain functions in the rat the guinea pig the cat and maybe some other mammal If the philosophy is that man is the centre of the universe and other mammals can be used as models of man this may well be the most useful way to study the functions of the human being without actually chopping somebody up However with a some what wider perspective on life it is easy to see the importance of a full understanding of the function of all living organisms in its own right as well as a link in the evolution towards individuals able to survive and reproduce in very different environments The importance of comparative studies in all living organisms cannot be emphasized too much It has been the ambition with this book to treat all animals as equally important      **Regulatory Peptides and Cognate Receptors** Dietmar

Richter,2013-06-05 In the last two decades our knowledge on regulatory peptides and their cognate receptors most of which are members of the seven transmembrane receptor families has increased enormously Regulatory peptides are small proteins which besides their hormonal functions in regulating cellular metabolism in various tissues may also act as neurotransmitters and thus they often carry the prefix neuro Many of the cognate receptors involved in transducing the peptidergic signal across the cell membrane via a family of G proteins exist in multiple forms the number of which frequently exceeds that of the corresponding peptide ligands In this book various peptide receptor systems are discussed e g CRF somatostatin TRH opioid peptides vasopressin and oxytocin It also discusses new strategies such as reverse physiology to uncover new peptides and orphan receptors      **Regulatory Peptides and Amines During Ontogeny and in Non-endocrine Cancers** Lars-Inge

Larsson,1988      *Brain Receptor Methodologies Pt A* Paul J. Marangos,2012-12-02 Brain Receptor Methodologies Part A

General Methods and Concepts Amines and Acetylcholine provides information pertinent to neurotransmitter and neuromodulator receptors in brain This book explores the methodologies that can be used to address several basic and clinical problems Organized into two sections encompassing 18 chapters this book starts with an overview of the receptor concept which can be validated from indirect evidence obtained in studies of the quantitative aspects of drug antagonism This text then examines the radioligand receptor binding interactions Other chapters consider immunocytochemistry which has a primary role in determining the precise distribution of regulatory peptides to neural and endocrine elements of the diffuse neuroendocrine system The final chapter discusses the use of the radioligand binding procedure for the study of muscarinic receptors which has expanded the area of muscarinic receptor pharmacology Biochemists pharmacologists physiologists and researchers engaged in the fields of neurobiology and neuroscience will find this book extremely useful *Gerontological Aspects of Genome Peptide Regulation* Vladimir Khat'skelevich Khavinson, Vladimir V. Malinin, 2005-01-01 This monograph narrates not only the theoretical aspects and experimental data but also outlines new approaches to the prevention of aging and age related pathology thus addressing a wide readership of gerontologists geneticists molecular biologists biochemists and pharmacologists alike **Peptides and Neurological Disease**, 1986-01-01 Peptides and Neurological Disease

*Issues in Proteins and Peptides Research and Application: 2013 Edition*, 2013-05-01 Issues in Proteins and Peptides Research and Application 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Peptide Science The editors have built Issues in Proteins and Peptides Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Peptide Science in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Proteins and Peptides Research and Application 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> **Tietz Textbook of Clinical Chemistry and Molecular Diagnostics - E-Book** Nader Rifai, 2017-01-16 The Tietz Textbook of Clinical Chemistry and Molecular Diagnostics 6th Edition provides the most current and authoritative guidance on selecting performing and evaluating the results of new and established laboratory tests This classic clinical chemistry reference offers encyclopedic coverage detailing everything you need to know including analytical criteria for the medical usefulness of laboratory tests variables that affect tests and results laboratory medicine applications of statistical methods and most importantly clinical utility and interpretation of laboratory tests It is THE definitive reference in clinical chemistry and molecular diagnostics now fully searchable and with quarterly content updates podcasts clinical cases animations and extended content online through Expert Consult Analytical criteria focus on the medical usefulness of

laboratory procedures Reference ranges show new approaches for establishing these ranges and provide the latest information on this topic Lab management and costs gives students and chemists the practical information they need to assess costs allowing them to do their job more efficiently and effectively Statistical methods coverage provides you with information critical to the practice of clinical chemistry Internationally recognized chapter authors are considered among the best in their field Two color design highlights important features illustrations and content to help you find information easier and faster NEW Internationally recognized chapter authors are considered among the best in their field NEW Expert Consult features fully searchable text quarterly content updates clinical case studies animations podcasts atlases biochemical calculations multiple choice questions links to Medline an image collection and audio interviews You will now enjoy an online version making utility of this book even greater UPDATED Expanded Molecular Diagnostics section with 12 chapters that focus on emerging issues and techniques in the rapidly evolving and important field of molecular diagnostics and genetics ensures this text is on the cutting edge and of the most value NEW Comprehensive list of Reference Intervals for children and adults with graphic displays developed using contemporary instrumentation NEW Standard and international units of measure make this text appropriate for any user anywhere in the world NEW 22 new chapters that focus on applications of mass spectrometry hematology transfusion medicine microbiology biobanking biomarker utility in the pharmaceutical industry and more NEW Expert senior editors Nader Rifai Carl Wittwer and Rita Horvath bring fresh perspectives and help ensure the most current information is presented UPDATED Thoroughly revised and peer reviewed chapters provide you with the most current information possible

*Advances in Parasitology*, 1994-07-22 *Advances in Parasitology* is a series of up to date reviews of all areas of interest in contemporary parasitology It includes medical studies on parasites of major influence such as typanosomiasis and scabies and more traditional areas such as zoology taxonomy and life history which shape current thinking and applications

### **Molecular Biochemistry and Physiology of Helminth Neuromuscular Systems**

David Halton, Leslie H. Chappell, 1996 This collection of articles edited by D W Halton is the specially commissioned supplement to the journal *Parasitology* volume 113

### **Immunocytochemistry** Julia M. Polak, Susan Van

Noorden, 2014-05-12 *Immunocytochemistry Practical Applications in Pathology and Biology* focuses on the processes principles methodologies and approaches involved in the applications of immunocytochemistry in pathology and biology The selection first takes a look at the development and scope of immunocytochemistry techniques and practice used in immunocytochemistry and raising and testing antibodies for immunocytochemistry The book then ponders on raising antibodies to small peptides use of semithin frozen sections in immunocytochemistry and colloidal gold probes in immunocytochemistry Discussions focus on the production of gold probes localization of mouse serum albumin in the mammary gland immunogens and the immune response production of antisera and antibody specificity in immunocytochemistry The publication takes a look at double immunoenzymatic labelling lectin histochemistry

immunocytochemical localization of noradrenaline adrenaline and serotonin and immunocytochemistry of cell and tissue cultures Immunocytochemistry in endocrine pathology and indirect immunofluorescence in the study and diagnosis of organ specific autoimmune diseases are also discussed The selection is a dependable source of information for researchers interested the practical applications of immunocytochemistry in pathology and biology

**Comparative Animal Biochemistry** Klaus Urlich, 2013-04-17 tribute greatly to understanding the origins of The plan for this book goes back almost 20 years Already at that time it was possible to recognize organisms an extraordinary variation in metabolites and To provide the biochemist with a ready over processes superimposed upon the basic biochem view of the structural diversity of animals the book includes a simplified version of animal sys ical system of animals Each species each indi tematics for further information on the classifica vidual in fact each type of cell of the multicellu lar organism possesses its own biochemical char tion structure and life of particular animal spe acter and this molecular variety its biological sig cies the reader should consult the relevant text nificance and its evolutionary development books It is assumed that the zoologist reader has throw up many interesting questions The com a basic knowledge of biochemistry important general biochemical facts are in any case given for parative approach that has been so productive at many of the subjects covered the higher levels of complexity of morphology and physiology can also be used to great effect at I had already completed several chapters of the molecular level this book by the beginning of the 1970s

International Review of Cytology Kwang W. Jeon, 2004-08-28 International Review of Cytology presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research

**Neurohormones in Invertebrates** M. C. Thorndyke, G. J. Goldsworthy, 1988-10-20 This volume provides a particularly timely survey of invertebrate peptide hormones Interest in invertebrate peptide hormones has focused upon two important and related aspects both of which are fully covered in this volume As such it should have a broad appeal to scientists from a number of disciplines

*Essentials of Experimental Surgery* H Gregerson, S Lindkaer Jensen, F Moody, M Shokouh-Amiri, 1996-05-28 This book covers all aspects of experimental gastrointestinal research including anatomy physiology surgical procedures and animal experimental models As well as being a useful reference guide to established scientists it serves as an ideal introduction to the field of gastroenterology By consulting the book the appropriate animal species and experimental model can be chosen for physiological and pathophysiological studies

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