

# ANTIMICROBIAL PEPTIDES

## IN HUMAN HEALTH AND DISEASE

Edited by:  
**Richard L. Gallo**

# Antimicrobial Peptides In Human Health And Disease

**A. Méndez-Vilas**



## **Antimicrobial Peptides In Human Health And Disease:**

Antimicrobial Peptides in Human Health and Disease Richard L. Gallo, 2005 This book represents a cutting edge summary of one of the most important fields in innate immunity Antimicrobial peptides rapidly and directly inhibit infection by microbes and are of enormous importance in the body's natural defence against disease In addition the role of antimicrobial peptides in the development of therapeutic agents for the prevention and treatment of disease is becoming increasingly important Written by the leaders in the field this book provides an understanding of the implications of antimicrobial peptides in human disease The volume is divided into sections containing reviews of specific families of antimicrobials select organ systems that have demonstrated a relevance for antimicrobial peptides and in addition a more global discussion of these peptides and organs from distinct perspectives Alternatively each chapter can stand on its own providing the reader with the ability to dive right into the subject of most interest Topics covered include cathelicidins alpha and beta defensins granulysin hepcidin the role of antimicrobial peptides in blood gut skin lung and in the oral environment A recurring theme is the possibility of creating therapeutics that induce the expression of endogenous antimicrobial peptides for the prevention or treatment of disease

**Antimicrobial Peptides** Jürgen Harder, Jens-M. Schröder, 2015-12-24 This book focuses on the importance of human antimicrobial peptides AMP in keeping the host healthy and preventing infectious diseases The first chapters deal with several examples of the role of AMP in different epithelial organs skin and wound healing eye lung genito urinary tract gut which are exposed to different kinds of infectious microorganisms and as a result produce different patterns of AMP Examples of the dysregulation of AMP expression and function promoting infections are discussed The capacity of AMP to restrict the availability of essential metals to bacteria as an efficient antibacterial strategy in nutritional immunity is discussed in the next chapter Our current understanding of how vitamin D the sunshine vitamin influences AMP expression and how this can affect our health is also addressed Last but not least the role of AMP in HIV infection and the immunomodulatory properties of AMP highlight the diverse facets of AMP in host immunity AMP's specific functions including in fighting multi resistant bacteria suggest that they may offer therapeutic benefits a question that is discussed in the final chapter

**Antimicrobial Peptides and Human Disease** William Shafer, 2006-10-05 Microbes are in our midst soon after birth Thankfully the number of harmless and often beneficial microbes far outnumber those that would do us harm Our ability to ward off pathogens in our environment including those that can colonize our exterior and or interior surfaces depends on the integrative action of the innate and adaptive immunity systems This volume of CTMI entitled Antimicrobial Peptides and Human Disease is dedicated to the role of antimicrobial peptides AMPs in the innate host defense system of homo sapiens

*Antimicrobial Peptides* David A. Phoenix, Sarah R. Dennison, Frederick Harris, 2012-12-27 In this text the small team of expert authors presents the field in a comprehensive and accessible manner that is well suited for students and junior researchers The result is a highly readable and systematically structured introduction to antimicrobial peptides their

structure biological function and mode of action The authors point the way towards a rational design of this potentially highly effective new class of clinical antibiotics on the brink of industrial application They do this by discussing their design principles target membranes and structure activity relationships The final part of the book describes recent successes in the application of peptides as anticancer agents      Periodontal Diseases Jane Manakil,2012-02-03 Periodontal diseases is a web based resource intended to reach the contemporary practitioners as well as educators and students in the field of periodontology It is fully searchable and designed to enhance the learning experience Within the book a description is presented of the current concepts presenting the complex interactions of microbial fingerprint multiple genotypes and host modulations In addition an overview is given of the clinical outcome of the disease s progression as influenced by the epigenetic factors Emerging concepts on periodontitis as a risk factor for various systemic diseases and as a bilateral modulating factor have been elucidated in detail as well      **Evolution of Antimicrobial Peptides** Piyush Baidara,Santi Mohan Mandal,2024-11-21 Over the last century antibiotics have been a primary treatment for infectious diseases and indiscriminate use by both healthcare providers and patients has led to the rapid emergence of resistant pathogens Multidrug resistant pathogens and infective agents are an urgent threat to global health and this issue has created a critical need for the investigation of alternatives to conventional antibiotics Antimicrobial peptides AMPs have emerged as promising alternative therapeutics with studies on their mechanisms and applications an area of intense interest in agricultural science physiology and medicine AMPs are naturally occurring components of the host defense system and functional throughout all orders of life from prokaryotes to eukaryotes They are potent molecules with broad spectrum activities against infectious agents including bacteria fungi viruses and parasites AMPs have demonstrated therapeutic potential against non infectious diseases like chronic inflammation and cancer and have been found to have potential activities against slow growing bacteria such as biofilms This book summarizes the current available research on AMPs including discovery screening and characterization for therapeutic applications It discusses molecular biology proteomics genomics and bioinformatics approaches In addition it covers AMP classification and evolutionary studies from prokaryotes to eukaryotes      *Insights on Antimicrobial Peptides* Shymaa Enany,Jorge Masso-Silva,Anna Savitskaya,2022-07-06 Modern medicine is impossible without antibiotics but global antibiotic usage has led to the development of increasing numbers of multi drug resistant MDR bacteria Thus we still have problems with infectious disease treatment despite an arsenal of antibiotics This has forced researchers to develop new drugs that will be effective against resistant bacteria Some of these prospective molecules are antimicrobial peptides AMPs which are an important component of the innate immune system of various organisms in nature Currently more than 3 000 AMPs have been reported with different activities against different bacterial species including resistant phenotype bacteria AMPs display remarkable structural and functional diversity that is not completely understood As such this book presents a comprehensive overview of AMPs and their mechanism of action against MDR bacteria      **New edge of**

**antibiotic development: antimicrobial peptides and corresponding resistance** Octavio L. Franco,Nádia S.

Parachin,2014-09-26 Antimicrobial peptides commonly isolated from several organisms have been considered part of innate immune system and also as potential antimicrobial drugs Besides its antimicrobial activity some AMPs also have antifungal activity immunomodulatory and antitumoral activities Lately not only nature has become a source of AMPs Besides isolation of natural organisms antimicrobial peptides might be improved or created using computational tools This opens even more this so amazing field by creating infinite novel and remarkable possibilities Overall the current issue highlights the relevance of such Research Topic with perspectives to develop entirely new molecules with vast application within health and agricultural field with higher affinity for its target with concomitant reduction of side effects      **Antimicrobial Peptides**

Guangshun Wang,2017-09-01 Antimicrobial peptides AMPs have attracted extensive research attention worldwide Harnessing and creating AMPs synthetically has the potential to help overcome increasing antibiotic resistance in many pathogens This new edition lays the foundations for studying AMPs including a discovery timeline terminology nomenclature and classifications It covers current advances in AMP research and examines state of the art technologies such as bioinformatics combinatorial libraries high throughput screening database guided identification genomics and proteomics based prediction and structure based design of AMPs Thoroughly updated and revised this second edition contains new content covering defensins cathelicidins anti MRSA antifungal antiviral anticancer and antibiofilm strategies combined treatments adjuvants in vaccines advances in AMP technologies that cover surface coating to prevent biofilm formation nanofiber encapsulation technologies for delivery and sustained release and understanding innate immunity and the basis for immune boosting to overcome obstacles in developing AMPs into therapeutic agents Written and reviewed by a group of established investigators in the field Antimicrobial Peptides is a valuable resource for postgraduate students researchers educators and medical and industrial personnel      **Advances in Microbiology, Infectious Diseases and Public Health**

Gianfranco Donelli,2016-06-29 This Series will provide microbiologists hygienists epidemiologists and infectious diseases specialists with well chosen contributed volumes containing updated information in the areas of basic and applied microbiology involving relevant issues for public health including bacterial fungal and parasitic infections zoonoses and anthroozoonoses environmental and food microbiology The increasing threat of the multidrug resistant microorganisms and the related host immune response the new strategies for the treatment of biofilm based acute and chronic microbial infections as well as the development of new vaccines and more efficacious antimicrobial drugs to prevent and treat human and animal infections will be also reviewed in this series in the light of the most recent achievements in these fields Special attention will be devoted to the fast diffusion worldwide of the new findings of the most advanced translational researches carried out in the different fields of microbiological sciences with the aim to promote a prompt validation and transfer at clinical level of the most promising experimental results      Immune Responses of the Mucosal Epithelium in Chronic Lung

Diseases Loic Guillot, Marc Chanson, Christian Herr, 2021-02-09

### **Iron Metabolism in Human Health and Disease**

Kostas Pantopoulos, 2025-08-03 This book provides a state of the art overview on the role of bioiron in health and disease Iron is an essential constituent of simple and complex organisms and has played a critical role in the origin of life Cells utilize iron for energy metabolism oxygen transport and several biochemical reactions due to its flexible coordination chemistry and its unique ability to serve both as electron donor and acceptor The term bioiron was coined to emphasize the importance of iron in biology and medicine Even though iron is an abundant metal its bioavailability is limiting This often leads to iron deficient states which manifest in anemia and other co morbidities In fact iron deficiency is the most common medical condition worldwide On the other hand excess iron is potentially toxic due to its redox reactivity Iron toxicity is illustrated in pathologies of iron overload disorders such as hereditary hemochromatosis or iron loading anemias Dereglulation of iron metabolism is also observed in prevalent metabolic cardiovascular or neurological disorders Our knowledge of iron metabolism has dramatically increased during the last 30 40 years with the discovery of elegant iron homeostatic networks that operate at the cellular and systemic levels These include the IRE IRP regulatory system and the hepcidin ferroportin axis The iron hormone hepcidin has emerged as a master regulator of systemic iron traffic and as a pharmacological target for iron related disorders The book offers a comprehensive overview of the rapidly growing bioiron field and aims to attract the attention of students basic scientists and clinicians

### **Peptide Drug Discovery and Development**

Miguel Castanho, Nuno Santos, 2011-10-24 Filling a real knowledge gap this handbook and ready reference is both modern and forward looking in its emphasis on the bench to bedside translational approach to drug development Clearly structured into three major parts the book stakes out the boundaries of peptide drug development in the preclinical as well as clinical stages The first part provides a general background and focuses on the characteristic strengths and weaknesses of peptide drugs The second section contains five cases studies of peptides from diverse therapeutic fields and the lessons to be learned from them while the final part looks at new targets and opportunities discussing several drug targets and diseases for which peptide drugs are currently being developed

### **Science and Technology Against Microbial Pathogens**

A. Méndez-Vilas, 2011  
Antimicrobial susceptibility profile and effect of stem bark extracts of *Curtisia dentata* on multi drug resistant verotoxic *Escherichia coli* and *Acinetobacter* spp isolates obtained from water and wastewater samples Hamuel James Doughari und weitere Antimicrobial utilization in intensive care units of a private tertiary care hospital Pramila Tiwari Vani Yadav and Shilpi Singh Bacterial clearance from blood in mice infected by *S pneumoniae* penicillin MIC 16 ug/ml presenting specific IgG non protective levels and treated with sub therapeutic regimens of cefditoren a highly bound cephalosporin Fabio Cafini und weitere Characterisation of methicillin resistant *Staphylococcus aureus* isolates from hospitalised patients Vladimir Kmet Daniela Ohlasova and Milan Niks Characterization of methicillin resistant coagulase negative *Staphylococci* isolates from blood cultures in a Brazilian University Hospital Valeria Cataneli Pereira and Maria de Lourdes Ribeiro de Souza da Cunha

Control of bacterial contamination in boar semen doses J M Morrell and Margareta Wallgren Diffusion of extended spectrum B lactamase producing *Enterobacter cloacae* in a kidney transplantation unit S Hammami und weitere Effect of antifungal agents on non *Candida albicans* *Candida* species enzymatic activity M Negri und weitere Effect of chitosan nisin and storage time on the growth of *Listeria innocua* and *Shewanella putrefaciens* in fish homogenates L I Schelegueda M F Gliemmo and C A Campos ESBL producing *Enterobacteriaceae* in the northern Portugal antimicrobial susceptibility and molecular epidemiology R Fernandes and C Prudencio Observations on the antimicrobial susceptibility of *Staphylococcus pseudintermedius* following the introduction of cefovecin for clinical use in Europe Y Chaudhry A Robinson and K S Godinho Oxacillin resistance among *Staphylococcus aureus* isolated from peritoneal dialysis related peritonitis C H Camargo und weitere Resistance detection and susceptibility profile in *Staphylococcus* spp isolated from patients with urinary tract infection UTI Adriano Martison Ferreira und weitere Resistance distribution profile of MBL ESBL and multidrug resistant Gram negatives isolated at a tertiary care hospital in India K H Bhutada and V R Shende

**T Regulatory Cells in Human Health and Diseases** Song-Guo Zheng, 2021-02-01 This book addresses one of the major challenges of immunology today that is being directed to the translation of the rapidly emerging volume of basic science contributions of immunology to clinical medicine In so doing the book systemically introduces and discusses concepts classifications phenotypic and functional descriptions of regulatory T Treg cells in health and disease The authors of the 15 chapters were selected from among the most qualified experts in the field of Treg cell research who provide a comprehensive overview of Treg cells and their biology in the ensuing chapters The beginning chapters provide a useful contemporary classification of Treg cell populations and then progress to chapters that explore basic mechanisms of Treg cell function and epigenetic control In addition to descriptions of typical CD4 Foxp3 cells other chapters provide detailed presentations of Treg subsets such as CD8 Tregs and IL 10 producing Tr1 cells The differences of various Treg subsets as well as circulating and resident Treg cell populations are next compared Importantly the next chapters provide the clinical correlation of Treg cells with autoimmune diseases inflammatory diseases metabolic diseases cancer and organ transplantation and progress to chapters that highlight emerging innovative technology including nanoparticle Treg cells and their translational values In summary the book will provide a valuable resource not only for graduate students and researchers in the fields of immunology cell biology and translational medicine but also for all others interested in learning more about Treg cells and their application in human health and disease

**The Emergence of Peptides and Dendrimers in Dentistry** N.D. Shashikiran, Sachin Gugawad, Namrata Gaonkar, Savita Hadakar, Sonali Waghmode, Pranjali Pokharkar, Snehal Patil, 2023-12-15 This book provides detailed information about peptides and dendrimers and their application in dentistry Modern peptide and dendrimer chemistry techniques are being used by dental researchers to identify prevent and possibly treat oral disorders Even though the research on peptide chemistry and oral dental health is still in its early stages it has already yielded some promising findings

that if developed further might have a positive impact on all of our health and help both sectors research paradigms The book was written for those interested in research on novel materials in the field of dentistry and will open numerous doors for new research in the field of preventive dentistry

**The Human Microbiota in Health and Disease** Mike Wilson, 2018-09-03 A human being consists of a mammalian component and a multiplicity of microbes collectively referred to as the microbiota or microbiome with which it has a symbiotic relationship The microbiota is comprised of a variety of communities the composition of each being dependent on the body site it inhabits This community variation arises because the numerous locations on a human being provide very different environments each of which favors the establishment of a distinct microbial community Each community consists of bacteria fungi and viruses with in some cases archaea and or protozoa It is increasingly being recognized that the indigenous microbiota plays an important role in maintaining the health of its human host However changes in the overall composition of a microbial community at a body site or an increase in the proportion of a particular species in that community can result in disease or other adverse consequences for the host The Human Microbiota in Health and Disease An Ecological and Community Based Approach describes the nature of the various communities inhabiting humans as well as the important roles they play in human health and disease It discusses techniques used to determine microbial community composition and features a chapter devoted to the many factors that underlie this mammalian microbe symbiosis Uniquely the book adopts an ecological approach to examining the microbial community's composition at a particular body site and why certain factors can shift a community from a eubiotic to a dysbiotic state The book is for undergraduates and postgraduates on courses with a module on the indigenous microbiota of humans It will also be useful to scientists clinicians and others seeking information on the human microbiota and its role in health and disease

*Science And Technology Against Microbial Pathogens: Research, Development And Evaluation - Proceedings Of The International Conference On Antimicrobial Research (Icar2010)* Antonio Mendez-vilas, 2011-07-06 The aim of this book is to disseminate the most recent research in science and technology against microbial pathogens presented at the first edition of the ICAR Conference Series ICAR2010 held in Valladolid Spain in November 2010 This volume is a compilation of 86 chapters written by active researchers that offer information and experiences and afford critical insights into anti microbe strategies in a general context marked by the threat posed by the increasing antimicrobial resistance of pathogenic microorganisms Anti is here taken in a wide sense as against cell cycle adhesion or communication and when harmful for the human health infectious diseases chemotherapy etc and industry or economy food agriculture water systems etc The book examines this interesting subject area from antimicrobial resistance superbugs emerging and re emerging pathogens etc to the use of natural products or microbes against microbial pathogens not forgetting antimicrobial chemistry physics and material science Readers will find in a single volume up to date information of the current knowledge in antimicrobial research The book is recommended for researchers from a broad range of academic disciplines that are contributing in the



battle against harmful microorganisms not only those more traditionally involved in this research area microbiologists biochemists geneticists clinicians etc but also experimental and theoretical computational chemists physicists or engineers

Role of Microbes in Human Health and Diseases Nar Singh Chauhan,2019-06-05 Microbes are ubiquitous and have ecological interactions with almost all life forms Likewise humans invariably engage in host microbial interactions that could induce short term or long term effects Some of these long term crossover interactions have allowed successful colonization of microbes within or on the human body collectively known as the human microbiome or human microbiota The human microbiome is identified as playing a key role in various physiological processes like digestion immunity defense growth and development Any dysbiosis in the human microbiome structure could induce the onset of various metabolic or physiological disorders Cumulatively the human microbiome is considered as a virtual human organ that is essential for host survival Additionally short term biological interactions of the host and microbes have exposed microbes to the human cellular system This exposure could have allowed the microbes to invade human cells for their growth and reproduction induced onset of various infectious diseases This book incorporates a number of studies highlighting the role of microbes in human health and diseases

**Dairy in Human Health and Disease across the Lifespan** Ronald Ross Watson,Robert J Collier,Victor R Preedy,2017-06-19 Dairy in Human Health and Disease across the Lifespan addresses the contribution of milk to the human diet and health throughout the life span This comprehensive book is divided into three sections and presents a balanced overview of dairy s impact on nutrition from infancy to adulthood Summaries capture the most salient points of each chapter and the book provides coverage of dairy as a functional food in health and disease Presents various dairy products and their impact on health specific to various stages in the lifespan Provides information to identify which food and diet constituents should be used as dietary supplements based on modification of health and nutrition Incorporates contributions from an international team of authors with varying areas of expertise related to dairy and nutrition

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