


Matej Orešič · Antonio Vidal-Puig *Editors*

# A Systems Biology Approach to Study Metabolic Syndrome

 Springer

# A Systems Biology Approach To Study Metabolic Syndrome

**Arturo Cuomo**



## **A Systems Biology Approach To Study Metabolic Syndrome:**

A Systems Biology Approach to Study Metabolic Syndrome Matej Orešič, Antonio Vidal-Puig, 2013-09-24 The aim of this book is to provide the target audience specifically students of Medicine Biology Systems Biology and Bioinformatics as well as experienced researchers in research fields relevant to metabolic syndrome MetS with an overview of the challenges and opportunities in systems biology and how it can be used to tackle MetS In particular the aims are 1 to provide an introduction to the key biological processes involved in the pathophysiology of MetS 2 through the use of specific examples provide an introduction to the latest technologies that use a systems biology approach to study MetS and 3 to give an overview of the mathematical modeling approaches for studying MetS The clearly written chapters by leading experts in the field provides detailed descriptions crucial for the unique position of this book and its focus on the application of systems biology to tackle specific pathophysiologically relevant aspects of MetS and provides a valuable practical guide to this research community

### **Systems Biology Approaches: Prevention, Diagnosis, and Understanding Mechanisms of Complex Diseases**

Sanket Joshi, Rina Rani Ray, Moupriya Nag, Dibyajit Lahiri, 2024-05-16 This book examines the development and applications of system biology approaches for the prevention diagnosis and understanding of disease mechanisms It explores the applications of system biology in infectious diseases including host pathogen interaction and the identification of targets for new therapeutics and intervention strategies It covers the use of system biology for understanding and treating metabolic disorders towards personalized and precision medicine The book further discusses the systems biology approaches for understanding the mechanisms of tumor progression and designing more effective cancer therapies The chapter also reviews the current strategies in autoimmune disease treatment and highlights the opportunity that systems biology represents for the development of better and safer treatments Importantly the book discusses the current state of the systems level understanding of diseases and both the therapeutic and adverse mechanisms of drug actions using system biology approaches Cutting across the disciplines this book is a valuable source for researchers in genetics molecular biology cell biology microbiology and biomedical sciences

**A Systems Biology Approach to Advancing Adverse Outcome Pathways for Risk Assessment** Natàlia Garcia-Reyero, Cheryl A. Murphy, 2018-02-24 Social pressure to minimize the use of animal testing the ever increasing concern on animal welfare and the need for more human relevant and more predictive toxicity tests are some of the drivers for new approaches to chemical screening This book focuses on The Adverse Outcome Pathway an analytical construct that describes a sequential chain of causally linked events at different levels of biological organization that lead to an adverse health or ecotoxicological effect While past efforts have focused on toxicological pathway based vision for human and ecological health assessment relying on in vitro systems and predictive models The Adverse Outcome Pathway framework provides a simplified and structured way to organize toxicological information Within the book a systems biology approach supplies the tools to infer link and quantify the molecular initiating events and the key events and key event

relationships leading to adverse outcomes The advancement of these tools is crucial for the successful implementation of AOPs for regulatory purposes Biochemical Mechanisms for Metabolic Syndrome Tejal Gandhi, Anita Mehta, 2024-12-24 The book Biochemical Mechanisms for Metabolic Syndrome delves into the intricate biochemistry underlying the complex condition known as Metabolic Syndrome The main focus of the book is to provide a comprehensive overview and in depth exploration of the various biochemical processes and molecular mechanisms contributing to the development and progression of Metabolic Syndrome The book is structured into several chapters each with a specific purpose The initial chapters lay the groundwork by introducing the concept of Metabolic Syndrome its historical context prevalence and the risk factors associated with it Subsequent chapters tackle various aspects of insulin resistance and its underlying mechanisms lipid metabolism dysregulation the impact of obesity and the complex interplay between Metabolic Syndrome and hypertension The book then shifts focus to exploring the genetic predisposition to Metabolic Syndrome and delves into recently explored indepth cellular and tissue mechanisms including the role of gut barrier dysfunction and adipose tissue remodeling Chapters dedicated to molecular mechanisms and signaling pathways offer a deeper understanding of the inflammatory resolution and endoplasmic reticulum stress in the context of Metabolic Syndrome Another significant aspect of the book is the exploration of the Brain Gut Adipose Axis and endocrine regulation looking at the impact of gut microbiota derived metabolites gut hormones and neuronal regulation on Metabolic Syndrome Additionally omics technologies are covered extensively ranging from genomics transcriptomics proteomics and epigenomics to unravel the molecular complexity of Metabolic Syndrome The latter part of the book delves into therapeutic approaches including lifestyle interventions pharmacological interventions and dietary strategies It also explores the therapeutic potential of brown adipose tissue and highlights future directions and emerging research in the field of Metabolic Syndrome biochemistry Overall the book will provide a valuable resource for researchers healthcare professionals and students seeking a comprehensive understanding of the biochemical intricacies of Metabolic Syndrome and potential avenues for therapeutic interventions **Systems Biology and In-Depth Applications for Unlocking Diseases** Babak Sokouti, 2024-11-05 **Systems Biology and In Depth Applications for Unlocking Diseases** provides the essence of systems biology approaches in a practical manner illustrating the basic principles essential to develop and model in real life science applications Methodologies covered show how to interrogate biological data with the purpose of obtaining insight about disease diagnosis prognosis and treatment Systematically written in 4 parts this book first provides an introduction and history of systems biology second it provides the tools and resources needed for the structure and function of biological systems next it provides the evidence of systems biology in action to better understand disease connections and finally it provides the extensions of systems biology in various scientific fields including pharmacology immunology vaccinology neuroscience virology and medicine Examples include big data techniques scale networks mathematical model development and much more This is the perfect reference to provide the fundamental

base of knowledge needed for systems biologists professionals in systems medicine computational biologists and bioinformaticians whether needed for immediate application or for building a comprehensive understanding of the field Provides detailed and comprehensive coverage of the field of systems biology Delivers instruction on how to interrogate biological data with the purpose of obtaining insight about disease diagnosis prognosis and treatment Makes effective steps towards personalized medicine in the treatment of disease Explains effective disease treatment strategies at early diagnosis stages

*Cellular Metabolism and Related Disorders* Jesmine Khan,Po-Shiuan Hsieh,2020-07-15 This book deals with a vital topic metabolism in the cells of the body and various disorders due to its imbalance and or diseases that disrupt the metabolism of the body The objective of this book was to collect and compile up to date information from reputed researchers in their respective fields to disseminate the latest information about topics that have profound effects on the metabolic processes in the body including insulin resistance diabetes mellitus hypothyroidism metabolic syndrome glycogen storage disease and the urea cycle disorder In total there are 12 chapters in this book in which the authors have shared their research findings and real life experiences in managing their patients

**Aging and Health - A Systems Biology Perspective** A. I. Yashin,S. M. Jazwinski,2014-10-14 Aging is a major risk factor for chronic diseases which in turn can provide information about the aging of a biological system This publication serves as an introduction to systems biology and its application to biological aging Key pathways and processes that impinge on aging are reviewed and how they contribute to health and disease during aging is discussed The evolution of this situation is analyzed and the consequences for the study of genetic effects on aging are presented Epigenetic programming of aging as a continuation of development creates an interface between the genome and the environment New research into the gut microbiome describes how this interface may operate in practice with marked consequences for a variety of disorders This analysis is bolstered by a view of the aging organism as a whole with conclusions about the mechanisms underlying resilience of the organism to change and is expanded with a discussion of circadian rhythms in aging Finally the book presents an outlook for the development of interventions to delay or to reverse the features of aging The publication is recommended to students researchers as well as professionals dealing with public health and public policy related to an aging society

**The Metabolic Syndrome** Henning Beck-Nielsen,2013-03-25 The metabolic syndrome is a common syndrome affecting about 20 % of the adult population in Europe and probably the prevalence is of the same magnitude in other industrialised countries worldwide It is mainly caused by western lifestyle resulting in abdominal obesity but also a genetic predisposition plays a role This syndrome which is linked to leisure lifestyle and overeating obesity can develop into type 2 diabetes cardiovascular disease and cancer Therefore proper treatment and prevention are heavily needed This book discusses lifestyle intervention and treatment specifically with pharmacological compounds in order to formulate a strategy for treating the metabolic syndrome in the daily clinic

*Advances in Food and Nutrition Research* Fidel Toldra,2019-01-24 Advances in Food and Nutrition Research

Volume 87 provides updated information on nutrients in foods and how to avoid deficiency especially the essential nutrients that should be present in the diet to reduce disease risk and optimize health The book provides the latest advances on the identification and characterization of emerging bioactive compounds with putative health benefits Chapters in this new release include discussions of the function and application of bioactive peptides from corn gluten meal Dietary fatty acids and metabolic syndrome the Microbial ecology of plant based fermented foods and current knowledge on their impact on human health and much more

**Metabolic Diseases: New Insights for the Healthcare Professional: 2011 Edition**

,2012-01-09 Metabolic Diseases New Insights for the Healthcare Professional 2011 Edition is a ScholarlyPaper that delivers timely authoritative and intensively focused information about Nutritional and Metabolic Diseases in a compact format The editors have built Metabolic Diseases New Insights for the Healthcare Professional 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Nutritional and Metabolic Diseases in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Metabolic Diseases New Insights for the Healthcare Professional 2011 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>

**Systems Biology and Machine Learning Methods in Reproductive Health** Abhishek Sengupta,Priyanka Narad,Dinesh Gupta,Deepak Modi,2025-01-10 Systems Biology and Machine Learning Methods in Reproductive Health is an innovative and wide ranging book that discovers the synergetic combination of disciplines systems biology and machine learning with an application in the field of reproductive health This book assembles the expertise of leading scientists and clinicians to present a compilation of cutting edge techniques and case studies utilizing computational methods to elucidate intricate biological systems elucidate reproductive pathways and address critical issues in the fields of fertility pregnancy and reproductive disorders Bringing science and data science together this groundbreaking book provides scientists clinicians and students with a step by step guide to uncovering the complexities of reproductive health through cutting edge computational tools

*Handbook of Research on Systems Biology Applications in Medicine* Daskalaki,

Andriani,2008-11-30 This book highlights the use of systems approaches including genomic cellular proteomic metabolomic bioinformatics molecular and biochemical to address fundamental questions in complex diseases like cancer diabetes but also in ageing Provided by publisher

**Veterinary Science** Robert J. Hudson,Ole Nielsen,J. Bellamy,Craig Stephen,2010-02-24 Veterinary Science theme is a component of Encyclopedia of Food and Agricultural Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Veterinary medicine s ultimate purpose is to promote maintain and restore the health of animals people and

the ecosystems which they inhabit The theme on Veterinary Science focuses on ensuring the health and welfare of animals and provides the essential aspects and a myriad of issues of great relevance to our world such as Veterinary Medicine Veterinary Surveillance Metabolic Disorders of Dairy Cattle Veterinary Pathology Veterinary Toxicology Comparative Immunology Based Approaches to Veterinary Diseases Veterinary Virology Veterinary Bacteriology Veterinary Mycology Veterinary Helminthology Biology of select zoonotic protozoan infections of domestic animals Veterinary Ectoparasitology This volume is aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers NGOs and GOs

**Biopharmaceutical Informatics** Sandeep Kumar, Andrew Nixon, 2025-01-22 Despite the phenomenal clinical success of antibody based biopharmaceuticals in recent years discovery and development of these novel biomedicines remains a costly time consuming and risky endeavor with low probability of success To bring better biomedicines to patients faster we have come up with a strategic vision of Biopharmaceutical Informatics which calls for syncretic use of computation and experiment at all stages of biologic drug discovery and pre clinical development cycles to improve probability of successful clinical outcomes Biopharmaceutical Informatics also encourages industry and academic scientists supporting various aspects of biotherapeutic drug discovery and development cycles to learn from our collective experiences of successes and more importantly failures The insights gained from such learnings shall help us improve the rate of successful translation of drug discoveries into drug products available to clinicians and patients reduce costs and increase the speed of biologic drug discovery and development Hopefully the efficiencies gained from implementing such insights shall make novel biomedicines more affordable for patients This unique volume describes ways to invent and commercialize biomedicines more efficiently Calls for digital transformation of biopharmaceutical industry by appropriately collecting curating and making available discovery and pre clinical development project data using FAIR principles Describes applications of artificial intelligence and machine learning AIML in discovery of antibodies in silico DAbI starting with antigen design constructing inherently developable antibody libraries finding hits identifying lead candidates and optimizing them Details applications of AIML physics based computational design methods and other bioinformatics tools in fields such as developability assessments formulation and excipient design analytical and bioprocess development and pharmacology Presents pharmacokinetics pharmacodynamics PK PD and Quantitative Systems Pharmacology QSP models for biopharmaceuticals Describes uses of AIML in bispecific and multi specific formats Dr Sandeep Kumar has also edited a collection of articles dedicated to this topic which can be found in the Taylor and Francis journal mAbs

**Foodomics** Alejandro Cifuentes, 2013-02-05 Provides the latest omics tools to advance the study of food and nutrition The rapidly emerging field of foodomics examines food and nutrition by applying advanced omics technologies in order to improve people s health well being and knowledge Using tools from genomics transcriptomics epigenomics proteomics and metabolomics foodomics offers researchers new analytical

approaches to solve a myriad of current challenges in food and nutrition science This book presents the fundamentals of foodomics exploring the use of advanced mass spectrometry techniques in food science and nutrition in the post genomic era The first chapter of the book offers an overview of foodomics principles and applications Next the book covers Modern instruments and methods of proteomics including the study and characterization of food quality antioxidant food supplements and food allergens Advanced mass spectrometry based methods to study transgenic foods and the microbial metabolome Mass spectrometry based metabolomics in nutrition and health research Foodomics impact on our current understanding of micronutrients phenolic compounds and folates optimal nutrition and personalized nutrition and diet related diseases Principles and practices of lipidomics and green foodomics Use of chemometrics in mass spectrometry and foodomics The final chapter of Foodomics explores the potential of systems biology approaches in food and nutrition research All the chapters conclude with references to the primary literature enabling readers to explore individual topics in greater depth With contributions from a team of leading pioneers in foodomics this book enables students and professionals in food science and nutrition to take advantage of the latest tools to advance their research and open up new areas of food and nutrition investigation *Biochemical Aspects of Metabolic Disorders* Muhammad Sajid Hamid Akash, Kanwal Rehman, 2025-05-17

*Biochemical Aspects of Metabolic Disorders* offers a comprehensive exploration of the intricate biochemical mechanisms and or pathways underlying a wide array of metabolic disorders From the genetic basis of inherited metabolic conditions to the environmental factors impacting metabolic dysregulation each chapter investigates the molecular insights essential for understanding and managing these complex diseases Covering topics such as carbohydrate and lipid metabolism disorders amino acid catabolism hepatic and renal metabolism mitochondrial dysfunction pediatric obesity and diagnostic approaches this book will serve as a requisite resource for researchers clinicians and students alike looking for unravel the biochemical intricacies of metabolic disorders Provides comprehensive coverage of various aspects of metabolic disorders including carbohydrate and lipid metabolism disorders and amino acid metabolism disorders Offers detailed molecular insight into the biochemical mechanisms and or pathways involved in metabolic disorders helping readers understand the underlying mechanisms driving disease pathogenesis Includes diagnostic algorithms and therapeutic approaches enabling readers to apply biochemical knowledge to real world clinical scenarios **Hayes' Handbook of Pesticide Toxicology**, 2010-02-15

The Handbook of Pesticide Toxicology is a comprehensive two volume reference guide to the properties effects and regulation of pesticides that provides the latest and most complete information to researchers investigating the environmental agricultural veterinary and human health impacts of pesticide use Written by international experts from academia government and the private sector the Handbook of Pesticide Toxicology is an in depth examination of critical issues related to the need for use of and nature of chemicals used in modern pest management This updated 3e carries on the book s tradition of serving as the definitive reference on pesticide toxicology and recognizes the seminal contribution of



Wayland J Hayes Jr co Editor of the first edition Presents a comprehensive look at all aspects of pesticide toxicology in one reference work Clear exposition of hazard identification and dose response relationships in each chapter featuring pesticide agents and actions All major classes of pesticide considered Different routes of exposure critically evaluated *Biological Control Systems and Disease Modelling* Babatunde Ogunnaike, David Bogle, Robert Parker, Julio R. Banga, 2021-06-04

Advancements in Modeling-Based Therapeutics and Technology for Chronic Diseases Sachchida Nand Rai, Santosh Kumar Singh, Veer Singh, 2025-08-26 Advancements in Modeling Based Therapeutics and Technology for Chronic Diseases delves into the crucial role of animal and cellular models in comprehending the intricate mechanisms of chronic diseases The book emphasizes the importance of these models in predicting disease progression testing new therapeutic approaches and understanding how environmental and genetic factors interplay in the development of long term health conditions With a multidisciplinary approach it bridges the gap between experimental research and clinical applications offering insights into not only disease management but also the future of personalized medicine The book also sheds light on emerging technologies including bioinformatics tools and in silico modeling which further enhance our ability to tackle chronic diseases It explores how these advancements are transforming research methodologies and providing novel solutions for diagnosis and treatment Additionally it highlights collaborative strategies between researchers clinicians and technologists stressing the importance of integrated efforts in addressing global health challenges effectively Delves into detailed case studies methodologies and emerging trends providing an in depth review of current modeling approaches Explores the integration of various technologies offering a holistic view of how these technologies can be applied synergistically Sheds light on how current technological innovations are integrated into therapeutic approaches for chronic disease management Handbook of Systems Biology Marian Walhout, Marc Vidal, Job Dekker, 2012-12-31 This book provides an entry point into Systems Biology for researchers in genetics molecular biology cell biology microbiology and biomedical science to understand the key concepts to expanding their work Chapters organized around broader themes of Organelles and Organisms Systems Properties of Biological Processes Cellular Networks and Systems Biology and Disease discuss the development of concepts the current applications and the future prospects Emphasis is placed on concepts and insights into the multi disciplinary nature of the field as well as the importance of systems biology in human biological research Technology being an extremely important aspect of scientific progress overall and in the creation of new fields in particular is discussed in boxes within each chapter to relate to appropriate topics 2013 Honorable Mention for Single Volume Reference in Science from the Association of American Publishers PROSE Awards Emphasizes the interdisciplinary nature of systems biology with contributions from leaders in a variety of disciplines Includes the latest research developments in human and animal models to assist with translational research Presents biological and computational aspects of the science side by side to facilitate collaboration between computational and biological researchers

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