

ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY Volume 529

Genus Yersinia Entering The Functional Genomic Era

Yuriy A. Knirel, Miguel A. Valvano

Genus Yersinia Entering The Functional Genomic Era:

The Genus Yersinia Mikael Skurnik, José Antonio Bengoechea, Kaisa Granfors, 2006-04-11 For the eighth time the yersiniologists all over the world gathered together when the International Symposium on Yersinia was organized by University of Turku and Turku Microbiology Society in Turku Finland Over 250 delegates from 28 countries attended the Symposium The Symposium logo Picture 4 next page presents a bacteriophage attached to the surface of the bacterium One can easily imagine that most of the aspects covered in this Symposium are included in the logo the bacteriophage genome encodes for structural proteins adhesins and effector proteins that interact with the host cell in most intricate ways to carry out their mission Life of the bacteriophage depends on the tightly regulated interplay between the phage and the host proteins This all is also true between Yersinia and the different hosts and environments it encounters during its life cycle This Symposium Proceedings volume is based on the oral and poster presentations given during the Symposium The volume has been divided into six parts covering topics such as genomics surface structures bacteriophages molecular and cellular pathogenesis molecular epidemiology and diagnostics gene regulation clinical aspects and vaccines These topics reflect righteously the present trends in the bacteriology research **Endotoxins: Structure, Function and Recognition** Xiaoyuan Wang, Peter J. Quinn, 2010-06-30 Endotoxins are potentially toxic compounds produced by Gram negative bacteria including some pathogens Unlike exotoxins which are secreted in soluble form by live bacteria endotoxins are comprised of structural components of bacteria Endotoxins can cause a whole body inflammatory state sepsis leading to low blood pressure multiple organ dysfunction syndrome and death This book brings together contributions from researchers in the forefront of these subjects It is divided into two sections The first deals with how endotoxins are synthesized and end up on the bacterial surface The second discussed how endotoxins activate TLR4 and in turn how TLR4 generates the molecular signals leading to infectious and inflammatory diseases The way endotoxins interact with the host cells is fundamental to understanding the mechanism of sepsis and recent research on these aspects of endotoxins has served to illuminate previously undescribed functions of the innate immune system This volume presents a description of endotoxins according to their genetic constitution structure function and mode of interaction with host cells **Advances in Yersinia Research** Alzira Maria Paiva de Almeida, Nilma Cintra Leal, 2012-07-11 This book is a collection of articles written by prominent scientists who gathered in the city of Recife Brazil 23 27 October 2010 celebrating the 10th International Symposium on Yersinia The event is held every four years in a different country and for the Yersinia 2010 an interesting and updated program covering advances in research in Yersiniae was organized The major advances achieved over the past four years since the last symposium held in Lexington USA in 2006 were divided into eight chapters Epidemiology Clinical Diagnostic and Therapeutic aspects Ecology and Modeling Genomic Transcriptomics and Large Scale Population Immune Response and Vaccine Pathogenesis and Pathogenicity Factors Cellular Yersiniology Bacterial Structure and Metabolism Roles in

Pathogenesis and Bacterial Life Style The purpose of the book is to extend cutting edge knowledge on Yersinia discussed during the 10th International Symposium — *The Genus Yersinia:* Robert D. Perry, Jacqueline D. Fetherston, 2007-09-25 The 9th International Symposium on Yersinia was held in Lexington Kentucky USA on October 10 14 2006 Over 250 Yersinia researchers from 18 countries gathered to present and discuss their research In addition to 37 oral presentations there were 150 poster presentations This Symposium volume is based on selected presentations from the meeting and contains both reviews and research articles It is divided into six topic areas 1 genomics 2 structure and metabolism 3 regulatory mechanisms 4 pathogenesis and host interactions 5 molecular epidemiology and detection and 6 vaccine and antimicrobial therapy development Consequently this volume covers a wide range of current research areas in the Yersinia field

Bacterial Biofilms Tony Romeo, 2008-02-26 Throughout the biological world bacteria thrive predominantly in surface attached matrix enclosed multicellular communities or biofilms as opposed to isolated planktonic cells This choice of lifestyle is not trivial as it involves major shifts in the use of genetic information and cellular energy and has profound consequences for bacterial physiology and survival Growth within a biofilm can thwart immune function and antibiotic therapy and thereby complicate the treatment of infectious diseases especially chronic and foreign device associated infections Modern studies of many important biofilms have advanced well beyond the descriptive stage and have begun to provide molecular details of the structural biochemical and genetic processes that drive biofilm formation and its dispersion There is much diversity in the details of biofilm development among various species but there are also commonalities In most species environmental and nutritional conditions greatly influence biofilm development Similar kinds of adhesive molecules often promote biofilm formation in diverse species Signaling and regulatory processes that drive biofilm development are often conserved especially among related bacteria Knowledge of such processes holds great promise for efforts to control biofilm growth and combat biofilm associated infections This volume focuses on the biology of biofilms that affect human disease although it is by no means comprehensive It opens with chapters that provide the reader with current perspectives on biofilm development physiology environmental and regulatory effects the role of quorum sensing and resistance phenotypic persistence to antimicrobial agents during biofilm growth Fish Diseases and Disorders P. T. K. Woo, John F. Leatherland, David W. Bruno, 2006 This second edition of the book Fish Diseases and Disorders Viral Bacterial and Fungal Infections volume 3 represents a major update on the viral bacterial and oomycete disorders of finfish and shellfish Since publication of the first edition in 1999 considerable advances have been made and therefore all the chapters have been thoroughly revised The new and more eloquent research and current techniques have extended our knowledge and understanding of these infectious organisms Researchers from Europe North America Australia and Asia have been involved in updating this book With the addition of new information some of the older texts in the original chapters have been condensed this is to ensure a more focused and comprehensive reviews For this edition deletion and or combination a couple of the original chapters have been

made and added three new chapters Chapter 6 on Alphaviruses Chapter 7 on Oncogenic Viruses and Chapter 21 on Genomics of Finfish and Shellfish Microbial Pathogens which have been written by new authors There are 22 new authors who have offered to write new chapters and or update many of the original chapters. The aims philosophy focus audience and format of this second edition have remained unchanged and the authors hoped that this edition will continue to be useful to Prokaryotic Diversity N. A. Logan, H. M. Lappin-Scott, P. C. F Oyston, 2006-04-20 The true extent of prokaryote diversity encompassing the spectrum of variability among bacteria remains unknown Current research efforts focus on understanding why prokaryote diversification occurs its underlying mechanisms and its likely impact The dynamic nature of the prokaryotic world and continuing advances in the technological tools available make this an important area and hence this book will appeal to a wide variety of microbiologists Its coverage ranges from studies of prokaryotes in specialized environmental niches to broad examinations of prokaryote evolution and diversity and the mechanisms underlying them Topics include bacteria of the gastrointestinal tract unculturable organisms in the mouth and in the soil organisms from extreme environments the diversity of archaea and their phages comparative genomics and the emergence of pathogens the spread of genomic islands between clinical and environmental organisms minimal genomes needed for life horizontal gene transfer phenotypic innovation and patterns and extent of biodiversity Biological Information: New Perspectives -Proceedings Of The Symposium John C Sanford, Robert J Marks Ii, Michael J Behe, William A Dembski, Bruce L Gordon, 2013-06-03 In the spring of 2011 a diverse group of scientists gathered at Cornell University to discuss their research into the nature and origin of biological information This symposium brought together experts in information theory computer science numerical simulation thermodynamics evolutionary theory whole organism biology developmental biology molecular biology genetics physics biophysics mathematics and linguistics. This volume presents new research by those invited to speak at the conference The contributors to this volume use their wide ranging expertise in the area of biological information to bring fresh insights into the many explanatory difficulties associated with biological information These authors raise major challenges to the conventional scientific wisdom which attempts to explain all biological information exclusively in terms of the standard mutation selection paradigm Several clear themes emerged from these research papers 1 Information is indispensable to our understanding of what life is 2 Biological information is more than the material structures that embody it 3 Conventional chemical and evolutionary mechanisms seem insufficient to fully explain the labyrinth of information that is life By exploring new perspectives on biological information this volume seeks to expand encourage and enrich research into the nature and origin of biological information Microbe-vector Interactions in Vector-borne Diseases S. H. Gillespie, G. L. Smith, A. Osbourn, 2004-05-06 Several billion people are at daily risk of life threatening vector borne diseases such as malaria trypanosomiasis and dengue This volume describes the way in which the causal pathogens of such diseases interact with the vectors that transmit them It details the elegant biological adaptations that have enabled

pathogens to live with their vectors and in some circumstances to control them This knowledge has led to novel preventative strategies in the form of antibiotics and new vaccines which are targeted not at the pathogen itself but at its specific vector

Molecular Typing in Bacterial Infections, Volume II Ivano de Filippis, 2022-01-03 This updated second edition of Molecular Typing in Bacterial Infections presented in two volumes covers both common and neglected bacterial pathogenic agents highlighting the most effective methods for their identification and classification in the light of their specific epidemiology New chapters have been included to add new species as well as another view of how bacterial typing can be used These books are valuable resources for the molecular typing of infectious disease agents encountered in both research and hospital clinical laboratory settings as well as in culture collections and in the industry Each of the 21 chapters provides an overview of specific molecular approaches to efficiently detect and type different bacterial pathogens. The chapters are grouped in five parts covering respiratory and urogenital pathogens Volume I and gastrointestinal and healthcare associated pathogens as well as a new group of vector borne and Biosafety level 3 pathogens including a description of typing methods used in the traditional microbiology laboratory in comparison to molecular methods of epidemiology Volume II Comprehensive and updated Molecular Typing in Bacterial Infections provides state of the art methods for accurate diagnosis and for the correct classification of different types which will prove to be critical in unravelling the transmission routes of human pathogens Chemoreception Jean-Marc Pequignot, Constancio Gonzalez, Colin A. Nurse, Nanduri R. Prabhakar, Yvette Dalmaz, 2012-12-06 Since 1959 the International Society of Arterial Chemoreception ISAC has organized in a variety of countries fifteen scientific meetings devoted to the mechanisms of peripheral arterial chemoreception and chemoreceptor reflexes After the meeting held in Philadelphia with Sukhamay Lahiri as president ISAC membership elected Lyon CNRS University Claude Bernard France as the site of the xv ISAC Symposium The Symposium was effectively held in Lyon from the 18th to the 22nd of November 2002 and Jean Marc Pequignot was its president The organizers were Jean Marc Peguignot and Yvette Dalmaz Lyon CNRS University Claude Bernard France and the Scientific Committee was formed by John Carroll University of Arkansas for Medical Sciences USA Constancio Gonzalez University of Valladolid Spain Prem Kumar University of Birmingham U K Sukhamay Lahiri University of Pennsylvania Philadelphia USA Colin Nurse McMaster University Hamilton Ontario Canada and Nanduri Prabhakar Case Western University Cleveland Ohio USA The Symposium in Lyon intended to follow the path opened in Philadelphia gathering people working at the interface of cellular and molecular biology with researchers in the more classical topics of chemoreception pathways and reflexes The aim was to join experts with different perspectives Along these lines some participants are engaged in the exploration of the intimate mechanisms of oxygen sensing and cellular responses with their work centered in a great number of preparations covering a broad spectrum from bacteria to chemoreceptor cells or to central nervous systems neurons **Bacterial Lipopolysaccharides** Yuriy A. Knirel, Miguel A. Valvano, 2011-07-13 The bacterial lipopolysaccharide also known as endotoxin is exhaustively covered in the

present work Central emphasis is placed upon the fine chemical structure of the lipopolysaccharide and its significance for understanding their activity and function In particular the role it plays in the interaction of bacteria with other biological systems is examined New aspects of their physicochemical biology are introduced and updates to the current knowledge concerning the lipopolysaccharide are provided This important class of biomolecules has recently attracted the attention of many investigators in particular for understanding its involvement in innate immunity toll like receptor recognition and intracellular signaling Molecular and Cellular Aspects of Muscle Contraction Haruo Sugi, 2012-12-06 This volume presents the proceedings of a muscle symposium which was supported by the grant from the Fujihara Foundation of Science to be held as the Fourth Fujihara Seminar on October 28 November 1 2002 at Hakone Japan The Fujihara Seminar covers all fields of natural science while only one proposal is granted every year It is therefore a great honor for me to be able to organize this meeting Before this symposium I have organized muscle symposia five times and published the proceedings Cross bridge Mechanism in Muscle Contraction University of Tokyo Press 1978 Contractile Mechanisms in Muscle plenum 1984 Molecular Mechanisms of Muscle Contraction plenum 1988 Mechanism of MyofIlament Sliding in Muscle contraction plenum 1993 Mechanisms of Work Production and Work Absorption in Muscle plenum 1998 As with these proceedings this volume contains records of discussions made not only after each presentation but also during the periods of General Discussion in order that general readers may properly evaluate each presentation and the up to date situation of this research field It was my great pleasure to have Dr Hugh Huxley a principal discoverer of the sliding fllament mechanism in muscle contraction in this meeting On my request Dr Huxley kindly gave a special lecture on his monumental discovery of myofllament lattice structure by X ray diffraction of living skeletal muscle I hope general readers to learn how a breakthrough in a specific research field can be achieved Mathematical Modeling in Nutrition and the Health Sciences Janet A. Novotny, Michael H. Green, Ray C. Boston, 2012-12-06 This volume is the proceedings of the 7th Mathematical Modeling in Experimental Nutrition Conference held at Penn State University July 29 until August 1 2000 The book addresses the determination of optimal intakes of nutrients and food components to provide lifelong health and reduce incidence of disease Mathematical modelling provides a means of rigorously defining the functions of a system and using a variety of conditions to stimulate responses This volume presents the newest advances in modelling and related experimental techniques required to meet the new challenges currently facing nutrition and biological science Glycobiology and Medicine John S. Axford, 2012-12-06 This book contains the Proceedings of the Sixth Jenner Glycobiology and Medicine Symposium held 14 17 September 2002 in Seillac France This book highlights the latest developments in glycoimmunology including glycosylation dependent bacterial and viral infections lectin and proteoglycan dependent interactions in leukocyte homing processes to lymphoid tissues and inflamed tissues congenital defects in glycosylation of glycoproteins and glycolipids and the role of carbohydrates in tumour development and neuropathology including Creutzfeldt Jakob disease

Tropical Diseases Sangkot Marzuki, Jan Verhoef, Harm Snippe, 2012-12-06 Tropical Diseases From Molecule to Bedside covers a wide range of topics that reflect perspectives of northern and southern hemispheres Fittingly it defines tropical diseases in a broader than usual manner The book discusses traditional tropical medicine topics of infectious diseases and nutritional deficiencies. These diseases are common in the tropics although some are associated more with poverty than with tropical living conditions It also deals with genetic diseases and genomic issues that are truly associated with living in the tropics e g the thalassemias The book begins with several papers describing the vast human genetic diversity of Southeast Asia and its relationship to several genetic disorders These papers illustrate the future direction of genomic activities in relation to disease susceptibility and resistance The next sections deal with malaria and four specific viral and bacterial diseases of the tropics hepatitis B and C tuberculosis and leprosy followed by a section on general bacterial infection Two papers on nutrition complete the volume Oxygen Transport to Tissue XXIV Jeffrey Dunn, Harold M. Swartz, 2012-12-06 This volume contains referred manuscripts prepared from presentations made at the 2ih annual meeting of the International Society on Oxygen Transport to Tissue ISOTT The meeting was held in Hanover NH USA at Dartmouth Medical School the 3rd oldest medical school in the USA ISOTT attempts to produce high quality pUblications on cutting edge topics relating to oxygen in living systems. The goal is to allow contributors to contribute original data as with a main stream journal article but also to voice individual opinions and ideas in a more relaxed scientific forum. The meeting brought together an international group of scientists who share a common interest in the measurement and role of oxygen in living systems The organizers of ISOTT99 made a special effort to bring together people from industry medicine and basic sciences in order to improve the links in the chain of discovery through to application As a result this volume contains publications on a range of subjects There are contributions from companies on modifiers of oxygen carrying capacity allosteric modifiers of hemoglobin and infusible oxygen carriers or blood substitutes technical reports on oxygen measurement devices including advances in near infrared spectroscopy and imaging oxygen electrodes magnetic resonance spectroscopy and imaging and fluorescence based measurements There are medically related sections on modifying and measuring tumor oxygenation in order to improve therapy assessment and interpretation of oxygenation in the central nervous system and general issues relating oxygen to pathological conditions Retinal Degenerations Matthew M. LaVail, Joe G. Hollyfield, Robert E. Anderson, 2012-12-06 The topics in this volume explore the etiology cellular mechanisms epidemiology genetics models and potential therapeutic measures for the blinding diseases of retinitis pigmentosa and age related macular degeneration Special focus is highlighted in the areas of Mechanisms of Photoreceptor Degeneration and Cell Death extremely important because very little is known how or why photoreceptors die in these diseases despite an abundance of genetic information Age Related Macular Degeneration with several novel approaches to its analysis Usher Syndrome the most severe form of retinitis pigmentosa which includes an early or congenital loss of hearing along with blindness and Gene Therapy In addition the section on Basic

Science Related to Retinal Degeneration is particularly strong with several laboratories reporting on new discoveries in the area of outer segment phagocytosis a key component of photoreceptor retinal pigment epithelial cell interactions in normal and degenerating retinas Tissue Engineering, Stem Cells, and Gene Therapies Y. Murat Elcin, 2012-12-06 Recent years have seen an upsurge of significant interest in cell based technologies A range of productive and lively debate have taken place relating to tissue engineering namely the construction of tissues and whole organs using molecularly designed resorbable biomaterials to create tissue de novo the potential use of human embryonic stem cells for transplantation and regenerative medicine with similar potential for adult derived stem cells and gene therapy in relation to cell transplantation New findings in biomimetic materials cell signalling pathways extracellular matrix receptors and ligands growth factors and the human genome project all present particularly motivating sources for the development of research in the evergrowing biomedical field The purpose of this book is to stimulate further the work in biomedicine and to make the issues of related scientific disciplines accessible to a wider readership by characterising the current state of research in the biomedical field The lectures and a selection of the presentations from BIOMED 200 th The 9 International Symposium on Biomedical Science and Technology held in September 2002 in Turkey constitute the basis for the volume Tissue engineering stem cells cell and gene therapies were the major topics presented and discussed in the symposium This book is intended to serve as an up to date synopsis of the major developments of our area through the work reflected in BIOMED 2002 though not covering all aspects of the topics due to the natural restrictions within a volume of this kind New Trends in Cancer for the 21st Century Antonio Llombart-Bosch, Vicente Felipo, 2012-12-06 Given the latest advances in cancer research which includes basic research and its derived diagnostic clinical and therapeutic applications the book New Trends in Cancer for the 21st Century is written by individuals such as molecular biologists whose tasks are to decipher after sequencing the human genome those new genes and pathways involved in the carcinogenesis process clinical and molecular pathologists who apply these discoveries for the molecular diagnosis and characterization of the tumor and clinical oncologists who treat patients Pharmacogenetics introduces new perspectives in the translational fields with the design of drugs against specific targets which at this moment are in clinical trials phases This book achieves a state of the art in every field of cancer research and discusses the new perspectives that will open the future for cancer treatment basic research new technologies new drugs therapies For this reason the book is intended for pathologists clinicians and biologists as well as fellows and students of physiology and medicine

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