

Daisuke Kihara *Editor*

Protein Function Prediction for Omics Era

 Springer

Protein Function Prediction For Omics Era

Sławomir Filipek



Protein Function Prediction For Omics Era:

Protein Function Prediction for Omics Era Daisuke Kihara,2011-04-19 Gene function annotation has been a central question in molecular biology The importance of computational function prediction is increasing because more and more large scale biological data including genome sequences protein structures protein protein interaction data microarray expression data and mass spectrometry data are awaiting biological interpretation Traditionally when a genome is sequenced function annotation of genes is done by homology search methods such as BLAST or FASTA However since these methods are developed before the genomics era conventional use of them is not necessarily most suitable for analyzing a large scale data Therefore we observe emerging development of computational gene function prediction methods which are targeted to analyze large scale data and also those which use such omics data as additional source of function prediction In this book we overview this emerging exciting field The authors have been selected from 1 those who develop novel purely computational methods 2 those who develop function prediction methods which use omics data 3 those who maintain and update data base of function annotation of particular model organisms E coli which are frequently referred

Analyzing Network Data in Biology and Medicine Nataša Pržulj,2019-03-28 Introduces biological concepts and biotechnologies producing the data graph and network theory cluster analysis and machine learning using real world biological and medical examples

Biological Knowledge Discovery Handbook Mourad Elloumi,Albert Y. Zomaya,2015-02-04 The first comprehensive overview of preprocessing mining and postprocessing of biological data Molecular biology is undergoing exponential growth in both the volume and complexity of biological data and knowledge discovery offers the capacity to automate complex search and data analysis tasks This book presents a vast overview of the most recent developments on techniques and approaches in the field of biological knowledge discovery and data mining KDD providing in depth fundamental and technical field information on the most important topics encountered Written by top experts Biological Knowledge Discovery Handbook Preprocessing Mining and Postprocessing of Biological Data covers the three main phases of knowledge discovery data preprocessing data processing also known as data mining and data postprocessing and analyzes both verification systems and discovery systems BIOLOGICAL DATA PREPROCESSING Part A Biological Data Management Part B Biological Data Modeling Part C Biological Feature Extraction Part D Biological Feature Selection BIOLOGICAL DATA MINING Part E Regression Analysis of Biological Data Part F Biological Data Clustering Part G Biological Data Classification Part H Association Rules Learning from Biological Data Part I Text Mining and Application to Biological Data Part J High Performance Computing for Biological Data Mining Combining sound theory with practical applications in molecular biology Biological Knowledge Discovery Handbook is ideal for courses in bioinformatics and biological KDD as well as for practitioners and professional researchers in computer science life science and mathematics

Bioinformatics in Veterinary Science Jun-Mo Kim,Rajesh Kumar Pathak,2025-01-31 This book presents a compendium of advanced research and basic

principles approaches related to vetinformatics All chapters have explored the role of basic methods of vetinformatics that may be very helpful for students and researchers studying working in the area of veterinary and animal science and may also serve the purpose of textbook The latest developments in the field are discussed and basic concepts are introduced in a simple but comprehensive way to ensure that students researchers are able to understand the more advanced study in the proposed field It also provides a comprehensive list of resources used for RNAseq data analysis metagenomics GWAS systems biology and multiomics integration molecular docking toxicity prediction QSAR molecular dynamics simulation vaccine designing and machine learning This book serves as an invaluable resource for researchers faculty and students of veterinary and animal sciences for understanding modern approaches and the application of vetinformatics involved in livestock research This also focuses to guide map and carry out studies and research in the field of vetinformatics

Soft Computing for Biological Systems Hemant J. Purohit,Vipin Chandra Kalia,Ravi Prabhakar More,2018-02-19 This book explains how the biological systems and their functions are driven by genetic information stored in the DNA and their expression driven by different factors The soft computing approach recognizes the different patterns in DNA sequence and try to assign the biological relevance with available information The book also focuses on using the soft computing approach to predict protein protein interactions gene expression and networks The insights from these studies can be used in metagenomic data analysis and predicting artificial neural networks

Machine Learning Methodologies To Study Molecular Interactions Elif Ozkirimli,Tunca Dogan,Arzucan Ozgur,Artur Yakimovich,2022-01-21 Dr Elif Ozkirimli is a full time employee of F Hoffmann La Roche AG Switzerland and Dr Artur Yakimovich is a full time employee of Roche Products Limited UK All other Topic Editors declare no competing interests with regards to the Research Topic

Extracellular Matrix Omics Sylvie Ricard-Blum,2020-12-15 This book covers different omics aspects related to the extracellular matrix ECM namely specific omics resources focused on the extracellular matrix e g databases repositories and atlases quantitative proteomics applied to specific extracellular matrices e g basement membranes biological processes such as ECM degradation degradomics cell matrix interactions adhesomes signaling pathways biomarker discovery and diseases and interactomics extracellular matrix interaction networks including not only protein protein but also protein glycosaminoglycan interactions The volume also includes recent advances in glycomics and glycobioinformatics applied to proteoglycans and glycosaminoglycans which are key biological players The use of omics data to build dynamic models of ECM regulated biological pathways is addressed together with the requirement to standardize omic data which is a prerequisite for the FAIR Findability Accessibility Interoperability and Reusability guiding principles for scientific data management This book will be of great interest to a broad readership from beginners to advanced researchers who are interested in extracellular matrix omics and will inspire future research topics

[Bioinformatics for Plant Research and Crop Breeding](#) Jen-Tsung Chen,2024-10-28 Explore and advance bioinformatics and systems biology tools for crop breeding programs in this practical

resource for researchers Plant biology and crop breeding have produced an immense amount of data in recent years from genomics to interactome and beyond Bioinformatics tools which aim at analyzing the vast quantities of data produced by biological research and processes have developed at a rapid pace to meet the challenges of this vast data trove The resulting field of bioinformatics and systems biology is producing increasingly rich and transformative research Bioinformatics for Plant Research and Crop Breeding offers an overview of this field its recent advances and its wider applications Drawing on a range of analytical and data science tools its foundation on an in silico platform acquired multi omics makes it indispensable for scientists and researchers alike It promises to become ever more relevant as new techniques for generating and organizing data continue to transform the field Bioinformatics for Plant Research and Crop Breeding readers will also find A focus on emerging trends in plant science sustainable agriculture and global food security Detailed discussion of topics including plant diversity plant stresses nanotechnology in agriculture and many others Applications incorporating artificial intelligence machine learning deep learning and more Bioinformatics for Plant Research and Crop Breeding is ideal for researchers and scientists interested in the potential of OMICs and bioinformatic tools to aid and develop crop improvement programs

Frontiers of Computational Science Yukio Kaneda,Hiroshi Kawamura,Masaki Sasai,2007-04-10 This book covers the wide ranging scientific areas of computational science from basic research fields such as algorithms and soft computing to diverse applied fields targeting macro micro nano genome and complex systems It presents the proceedings of the International Symposium on Frontiers of Computational Science 2005 held in Nagoya in December 2005

Integrative Omics Manish Kumar Gupta,Pramod Katara,Sukanta Mondal,Ram Lakhan Singh,2024-05-03 Integrative Omics Concepts Methodology and Applications provides a holistic and integrated view of defining and applying network approaches integrative tools and methods to solve problems for the rationalization of genotype to phenotype relationships The reference includes a range of chapters in a systemic step by step manner which begins with the basic concepts from Omic to Multi Integrative Omics approaches followed by their full range of approaches applications emerging trends and future trends All key areas of Omics are covered including biological databases sequence alignment pharmacogenomics nutrigenomics and microbial omics integrated omics for Food Science and Identification of genes associated with disease clinical data integration and data warehousing translational omics as well as omics technology policy and society research Integrative Omics Concepts Methodology and Applications highlights the recent concepts methodologies advancements in technologies and is also well suited for researchers from both academic and industry background undergraduate and graduate students who are mainly working in the area of computational systems biology integrative omics and translational science The book bridges the gap between biological sciences physical sciences computer science statistics data science information technology and mathematics by presenting content specifically dedicated to mathematical models of biological systems Provides a holistic integrated view of a defining and applying network approach integrative tools and methods to solve

problems for rationalization of genotype to phenotype relationships Offers an interdisciplinary approach to Databases data analytics techniques biological tools network construction analysis modeling prediction and simulation of biological systems leading to translational research i e drug discovery drug target prediction and precision medicine Covers worldwide methods concepts databases and tools used in the construction of integrated pathways Structure-Based Drug Design for Diagnosis and Treatment of Neurological Diseases Rona R. Ramsay, Giuseppe Di Giovanni, 2017-03-24 European Cooperation in Science and Technology COST supports the collaboration of nationally funded science and technology research through the creation of networks COST is the longest running European framework enhancing cooperation among researchers engineers and scholars across Europe The COST Action CM1103 Structure based drug design for diagnosis and treatment of neurological diseases dissecting and modulating complex function in the monoaminergic systems of the brain is a good example of the advances possible through interdisciplinary collaboration on difficult problems COST Action CM1103 brought together 28 research groups from 18 countries to collaborate for four years on multi target drug design for complex neuropathologies The interdisciplinary expertise of the members is spans the range from computational enzymology to human studies providing outstanding opportunities for the interdisciplinary development of trainees and is reflected in the articles in this e book This Research Topic covers progress in multi target drug design for the complex neuropathologies of the monoamine system that are apparent for example in Alzheimer s disease After a mini review to introduce the topic of multi target drug design the other articles review the Research topic from their own perspective two from computational approaches three from medicinal chemistry two from molecular pharmacology and two from studies in whole brain This multi faceted approach describes new compounds new methodology and advances in the basic science of understanding the brain This Ebook is based upon work from COST Action CM1103 Structure based drug design for diagnosis and treatment of neurological diseases dissecting and modulating complex function in the monoaminergic systems of the brain supported by COST European Cooperation in Science and Technology COST European Cooperation in Science and Technology is a pan European intergovernmental framework Its mission is to enable break through scientific and technological developments leading to new concepts and products and thereby contribute to strengthening Europe s research and innovation capacities It allows researchers engineers and scholars to jointly develop their own ideas and take new initiatives across all fields of science and technology while promoting multi and interdisciplinary approaches COST aims at fostering a better integration of less research intensive countries to the knowledge hubs of the European Research Area The COST Association an International not for profit Association under Belgian Law integrates all management governing and administrative functions necessary for the operation of the framework The COST Association has currently 36 Member Countries [www cost eu](http://www.cost.eu)

Phytopharmaceuticals and Biotechnology of Herbal Plants Sachidanand Singh, Rahul Datta, Parul Johri, Mala Trivedi, 2022-12-28 Plant based drugs play an important role in all cultures and have been crucial in maintaining health and

fighting diseases and by using contemporary methods of biotechnology plants with explicit chemical compositions are propagated and genetically upgraded for the mining of pharmaceuticals

Phytopharmaceuticals and Biotechnology of Herbal Plants presents the latest advances in the development of transgenic plants covering phototherapeutics secondary metabolite production metabolomics metabolic engineering bioinformatics quality control of herbal plant products crop improvement using various breeding techniques tissue culture techniques and the future of phytopharmaceuticals Features Describes developments and applications of phytopharmaceuticals of herbal plants Highlights the importance of phytopharmaceutical of plants and potential applications in the food and pharma industries Provides an overview of research on key anticancer drugs to elucidate the biotechnological approaches for their production in cell cultures Places special emphasis on the biosynthetic pathway mapping and metabolic engineering

Phytopharmaceuticals and Biotechnology of Herbal Plants will be an invaluable resource to academics and researchers associated with plant science herbal drug manufacturers and phytochemists

Systems Biology of Tuberculosis Johnjoe McFadden,Dany J.V. Beste,Andrzej M. Kierzek,2012-12-09 The book starts with a general introduction into the relevance of systems biology for understanding tuberculosis This will be followed by several chapters which describe the application of systems biology to various aspects of the study of the pathogen *Mycobacterium tuberculosis* and its interaction with the host The book provides the reader with an account of how the new science of systems biology is providing novel insights into the ancient scourge of tuberculosis It will also describe how systems biology can be applied to the control of tuberculosis including the development of new treatments vaccines and diagnostics

The Evolution from Protein Chemistry to Proteomics Roger L. Lundblad,2005-10-14 Largely driven by major improvements in the analytical capability of mass spectrometry proteomics is being applied to broader areas of experimental biology ranging from oncology research to plant biology to environmental health However while it has already eclipsed solution protein chemistry as a discipline it is still essentially an extension

Multi-Omics in Biomedical Sciences and Environmental Sustainability Minu Kesheri,Swarna Kanchan,Donat-P. Häder,Rajeshwar P. Sinha,2025-06-25 This book offers a comprehensive exploration of the cutting edge multi omics technologies that are revolutionizing research across biomedical sciences and environmental sustainability It addresses the urgent need for interdisciplinary research by integrating multi omics approaches with bioinformatics and artificial intelligence The book explores evolution of traditional omics technologies into comprehensive multi omics strategies that synergize data output through advanced computational tools It covers diverse topics such as health and disease mechanisms drug discovery innovations COVID 19 responses cancer treatment personalization neuroscience insights into brain disorders cyanobacterial natural compounds potential for biofuel production lichen symbiosis studies and more This volume integrates genomics proteomics metabolomics and more with bioinformatics machine learning and artificial intelligence to address complex challenges in health and the environment With contributions from renowned scholars worldwide this book illuminates recent advances through illustrative figures and case

studies that enhance understanding of complex pathways while bioinformatics strategies streamline research outcomes This book is a must read for researchers academics and professionals in life sciences biomedical fields and environmental studies interested in advancing their knowledge of multi omics applications It is also beneficial for scientists involved in drug design or biotechnological innovations related to environmental sustainability **Advances in methods and tools for**

multi-omics data analysis Ornella Cominetti,Sergio Oller Moreno,Sumeet Agarwal,2023-05-12 **Understanding and improving the functional and nutritional properties of milk** Prof Thom Huppertz,Prof Todor Vasiljevic,2022-03-15

Comprehensive coverage of the latest research in isolating and analysing the diverse range of compounds in milk Reviews the genetic factors that affect milk composition as well as the ways milk chemistry can affect sensory quality Explores the importance of milk as a valuable commodity Fungal Siderophores Kalyani Dhusia,Kalpana Raja,Pramod

Ramteke,2021-02-08 In the past few decades it has been realized through research that fungal siderophores epitomize the uptake of iron as well as other essential elements like zinc magnesium copper nickel and arsenic Understanding the chemical structures of different fungal siderophores and the membrane receptors involved in uptake of mineral ions has opened new areas for research In this edited volume recent research is presented on fungal siderophores in one comprehensive volume to provide researchers a strong base for future research Siderophores are the low molecular weight high affinity iron chelating compounds produced by bacteria and fungi They are responsible for transporting iron across the cell membrane Fungi produce a range of hydroxamate siderophores involved in the uptake of essential elements in almost all microorganisms and plants In recent years siderophores have been used in molecular imaging applications to visualize and understand cellular functions which thus provide an opportunity to identify new drug targets Therefore knowledge of fungal siderophores has become vital in current research Siderophores have received much attention in recent years because of their potential roles and applications in various research areas Their significance in these applications is because siderophores have the ability to bind a variety of metals in addition to iron and they have a wide range of chemical structures and specific properties For instance siderophores function as biocontrols biosensors and bioremediation and chelation agents in addition to their important role in weathering soil minerals and enhancing plant growth This book focuses on siderophores with the following significant points It discusses leading state of the art research in all possible areas on fungal siderophores The contributors are well known and recognized authorities in the field of fungal siderophores It discusses a projection of practical applications of fungal siderophores in various domains This is the first book exclusively on fungal siderophores In this comprehensive edited volume we show leading research on fungal siderophores and provide the most recent knowledge of researchers work on siderophores This book presents in depth knowledge on siderophores to researchers working in areas of health sciences microbiology plant sciences biotechnology and bioinformatics *Homology Modeling* Sławomir

Filipek,2023-03-23 This detailed volume provides state of the art methodologies and reviews of important topics in the field

of homology modeling From homology modeling in the twilight zone and improving accuracy through sequence space analysis to approaches to construct multi protein complex models the book explores a wide variety of uses and applications of this valuable technique Written for the highly successful Methods in Molecular Biology series the chapters include introductions to their respective topics lists of the necessary programs webservers and databases step by step and readily reproducible protocols as well as tips on troubleshooting and avoiding known pitfalls Authoritative and practical Homology Modeling Methods and Protocols serves as an ideal guide to recent homology modeling procedures assumptions made and model quality assessment that will illuminate the black box of homology modeling for novice readers and broaden the knowledge of this methodology for professionals *Antimicrobial Peptides: Molecular Design, Structure Function Relationship and Biosynthesis Optimization* Jianhua Wang,Cesar de la Fuente-Nunez,Octavio Luiz Franco,2022-05-04

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