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***Issues in Biological and Life
Sciences Research: 2011 Edition
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information about Biological and
Life Sciences Research. The
editors have built Issues in
Biological and Life Sciences
Research: 2011 Edition on the
vast information databases of
ScholarlyNews.™ You can expect
the information about Biological
and Life Sciences Research in
this eBook to be deeper than
what you can access anywhere***

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else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Biological and Life Sciences Research: 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/>.

Explore how Western-trained Asian-born scientists' return migrations are fueling and fueled

***by Asia's rise in the global
scientific field.***

***This book reviews the advances
and challenges of structure-based
drug design in the preclinical
drug discovery process,
addressing various diseases,
including malaria, tuberculosis
and cancer. Written by
internationally recognized
researchers, this edited book
discusses how the application of
the various in-silico techniques,
such as molecular docking,
virtual screening, pharmacophore
modeling, molecular dynamics
simulations, and residue
interaction networks offers
insights into pharmacologically
active novel molecular entities. It
presents a clear concept of the
molecular mechanism of different***

drug targets and explores methods to help understand drug resistance. In addition, it includes chapters dedicated to natural-product- derived medicines, combinatorial drug discovery, the CryoEM technique for structure-based drug design and big data in drug discovery. The book offers an invaluable resource for graduate and postgraduate students, as well as for researchers in academic and industrial laboratories working in the areas of chemoinformatics, medicinal and pharmaceutical chemistry and pharmacoinformatics. Bacteria in various habitats are subject to continuously changing environmental conditions, such as nutrient deprivation, heat and

cold stress, UV radiation, oxidative stress, dessication, acid stress, nitrosative stress, cell envelope stress, heavy metal exposure, osmotic stress, and others. In order to survive, they have to respond to these conditions by adapting their physiology through sometimes drastic changes in gene expression. In addition they may adapt by changing their morphology, forming biofilms, fruiting bodies or spores, filaments, Viable But Not Culturable (VBNC) cells or moving away from stress compounds via chemotaxis. Changes in gene expression constitute the main component of the bacterial response to stress and environmental changes, and

involve a myriad of different mechanisms, including (alternative) sigma factors, bi- or tri-component regulatory systems, small non-coding RNA's, chaperones, CHRIS-Cas systems, DNA repair, toxin-antitoxin systems, the stringent response, efflux pumps, alarmones, and modulation of the cell envelope or membranes, to name a few. Many regulatory elements are conserved in different bacteria; however there are endless variations on the theme and novel elements of gene regulation in bacteria inhabiting particular environments are constantly being discovered. Especially in (pathogenic) bacteria colonizing the human body a plethora of bacterial responses to innate

stresses such as pH, reactive nitrogen and oxygen species and antibiotic stress are being described. An attempt is made to not only cover model systems but give a broad overview of the stress-responsive regulatory systems in a variety of bacteria, including medically important bacteria, where elucidation of certain aspects of these systems could lead to treatment strategies of the pathogens. Many of the regulatory systems being uncovered are specific, but there is also considerable "cross-talk" between different circuits. Stress and Environmental Regulation of Gene Expression and Adaptation in Bacteria is a comprehensive two-volume work bringing together both review and original

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research articles on key topics in stress and environmental control of gene expression in bacteria. Volume One contains key overview chapters, as well as content on one/two/three component regulatory systems and stress responses, sigma factors and stress responses, small non-coding RNAs and stress responses, toxin-antitoxin systems and stress responses, stringent response to stress, responses to UV irradiation, SOS and double stranded systems repair systems and stress, adaptation to both oxidative and osmotic stress, and desiccation tolerance and drought stress. Volume Two covers heat shock responses, chaperonins and stress, cold shock responses,

adaptation to acid stress, nitrosative stress, and envelope stress, as well as iron homeostasis, metal resistance, quorum sensing, chemotaxis and biofilm formation, and viable but not culturable (VBNC) cells. Covering the full breadth of current stress and environmental control of gene expression studies and expanding it towards future advances in the field, these two volumes are a one-stop reference for (non) medical molecular geneticists interested in gene regulation under stress. Makers of Jadavpur: A Technological Perspective ScholarlyBrief Regulation of Gene Expression in Enteropathogenic Bacteria, Volume II

***Regenerative Medicine:
Laboratory to Clinic
Recognition of Carbohydrates in
Biological Systems, Part A:
General Procedures
Enterobacteriaceae Infections:
Advances in Research and
Treatment: 2011 Edition***

In the past two decades, several pandemics have ravaged the globe, giving us several lessons on infectious disease epidemiology, the importance of initial detection and characterization of outbreak viruses, the importance of viral epidemic prevention steps, and the importance of modern vaccines. *Pandemic Outbreaks in the Twenty-First Century: Epidemiology, Pathogenesis, Prevention, and Treatment* summarizes the improvements in the 21st century to overcome / prevent / treat global pandemic with future prospective. Divided into 9 chapters, the book begins

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with an in-depth introduction to the lessons learned from the first pandemic of the 21st century. It describes the history, present and future in terms of detection, prevention and treatment. Followed by chapters on the outbreak, treatment strategies and clinical management of several infectious diseases like MERS, SARD and COVID 19, *Pandemic Outbreaks in the Twenty-First Century: Epidemiology, Pathogenesis, Prevention, and Treatment*, presents chapters on immunotherapies and vaccine technologies to combat pandemic outbreak and challenges. The book finishes with a chapter on the current knowledge and technology to control pandemic outbreaks. All are presented in a practical short format, making this volume a valuable resource for very broad academic audience. Provides insight to the lessons learned from past pandemics Gives

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recommendations, future direction in terms of detection, prevention and treatment of pandemics Guides readers through the status and recent developments of vaccines to overcome or prevent pandemics Shows how to enhance the host innate immunity in infectious diseases Includes a chapter on immunotherapies to combat pandemic outbreaks

Salmonellosis: New Insights for the Healthcare Professional: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Salmonellosis. The editors have built Salmonellosis: New Insights for the Healthcare Professional: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Salmonellosis in this eBook to be deeper than what you can access anywhere else,

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as well as consistently reliable, authoritative, informed, and relevant. The content of *Salmonellosis: 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/>.

This book reports significant progress of scientific research on horseshoe crabs, including aspects of evolution, genetics, ecology, population dynamics, general biology and physiology, within the recent 10 years. It also highlights the emerging issues related to world-wide conservation

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threats, status and needs. The contributions in this book represent part of an ongoing global effort to increase data and concept sharing to support basic research and advance conservation for horseshoe crabs.

Cancer-Leading Proteases: Structures, Functions, and Inhibition presents a detailed discussion on the role of proteases as drug targets and how they have been utilized to develop anticancer drugs. Proteases possess outstanding diversity in their functions. Because of their unique properties, proteases are a major focus of attention for the pharmaceutical industry as potential drug targets or as diagnostic and prognostic biomarkers. This book covers the structure and functions of proteases and the chemical and biological rationale of drug design relating to how these proteases can be exploited to find useful

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chemotherapeutics to fight cancers. In addition, the book encompasses the experimental and theoretical aspects of anticancer drug design based on proteases. It is a useful resource for pharmaceutical scientists, medicinal chemists, biochemists, microbiologists, and cancer researchers working on proteases. Explains the role of proteases in the biology of cancer Discusses how proteases can be used as potential drug targets or as diagnostic and prognostic biomarkers Covers a wide range of cancers and provides detailed discussions on protease examples

Dancing Protein Clouds: Intrinsically Disordered Proteins in the Norm and Pathology

Structural Bioinformatics: Applications in Preclinical Drug Discovery Process

General Awareness for MAT/ SNAP/ CMAT Exams

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Ecophysiology and Biochemistry of
Cyanobacteria

Applications of Flow Cytometry in Stem
Cell Research and Tissue Regeneration

Semicarbazones—Advances in
Research and Application: 2012
Edition is a ScholarlyBrief™ that
delivers timely, authoritative,
comprehensive, and specialized
information about Semicarbazones
in a concise format. The editors
have built

Semicarbazones—Advances in
Research and Application: 2012
Edition on the vast information
databases of ScholarlyNews.™ You
can expect the information about
Semicarbazones in this eBook to be

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deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Semicarbazones—Advances in Research and Application: 2012 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/>.

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Frontiers in Protein and Peptide Sciences is a book series focused on leading-edge research on the structure, physical properties, and functions of proteins and peptides. Authors of contributions in this series have updated their work with new experimental data and references following their initial research. Each volume highlights a number of important topics in current research in the field of protein and peptide chemistry and molecular biology, including membrane proteins and their interactions with ligands, computational methods, and proteins in disease and biotechnology. The series is essential

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reading for protein chemists and researchers seeking the latest information about protein and peptide research.

DNA Repair Enzymes: Advances in Research and Application: 2011 Edition is a ScholarlyPaper™ that delivers timely, authoritative, and intensively focused information about DNA Repair Enzymes in a compact format. The editors have built DNA Repair Enzymes: Advances in Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about DNA Repair Enzymes in this eBook to be deeper than what you can access anywhere

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else, as well as consistently reliable, authoritative, informed, and relevant. The content of DNA Repair Enzymes: Advances in Research and Application: 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/>. The twentieth century will close

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with 5 billion people added to the current global population. Between 1980 and the year 2000, the total world population will increase from 4 billion to a little over 6 billion.

There will be half as many more people on earth during these 20 years than the number accumulated since the origin of man to 1980.

Overpopulation is particularly acute in economically developing countries, where contraception has become a social necessity.

Contraception Research for Today and the Nineties carries the proceedings of an international symposium convened in New Delhi in October, 1986, to review the status of current research in

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contraception. Major organizations supporting basic and applied research in contraception-The Population Council, World Health Organization (WHO), The Rockefeller Foundation, United States Agency for International Development (USAID), International Development Research Center of Canada (IDRC), National Institutes of Health (NIH), and the Indian Council of Medical Research (ICMR)- were represented by the heads of divisions who projected respective programs and strategies. Principal scientists responsible for many of the new leads participated.

Changing Global Perspectives on

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Horseshoe Crab Biology,
Conservation and Management
DNA Repair Enzymes: Advances in
Research and Application: 2011
Edition
Applications of NMR Spectroscopy;
Vol. 6
Systems and Synthetic Biology
Unravelling Cancer Signaling
Pathways: A Multidisciplinary
Approach
On the Road to Worldwide Science
— Contributions to Science
Development
This book emphasizes and
presents the latest information
on eco-physiology and
biochemistry of cyanobacteria
with special emphasis on their

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biodiversity, molecular mechanisms of some important biological processes and survival mechanisms under myriad of environmental conditions as well as bioremediation.

Cyanobacteria are the most dominant prokaryotic floras on the Earth's surface, and are of great importance in terms of ecological, economical and evolutionary perspectives. They are oldest groups of photosynthetic autotrophs, which create oxygenic atmosphere for the development and sustainability of ecosystems with different life forms. The book presents an integrative approach

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to their possible biotechnological application in the field of bio-energy and various aspects of biochemistry, biophysics and structural biology of photosynthesis. The various chapters describe the different applications of cyanobacteria as bio-energy sources and in phycoremediation. The contents incorporated in this book can be used as a textbook by undergraduate and post-graduate students, teachers, and researchers in the most interesting fields of physicochemical ecology and biochemistry of cyanobacteria. This book reviews recent

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advances in the molecular and infection biology, pathology, and molecular epidemiology of *Mycobacterium tuberculosis*, as well as the identification and validation of novel molecular drug targets for the treatment of this mycobacterial disease.

Despite being completely curable, tuberculosis is still one of the leading global causes of death. *M. tuberculosis*, the causative organism – one of the smartest pathogens known – adopts highly intelligent strategies for survival and pathogenesis. Presenting a wealth of information on the molecular infection biology of *M.*

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tuberculosis, as well as nontuberculous mycobacteria (NTM), the book provides an overview of the functional role of the PE/PPE group of proteins, which is exclusive to the genus *Mycobacteria*, of host-pathogen interactions, and virulence. It also explores the pathogenesis of the infection, pathology, epidemiology, and diagnosis of NTM. Finally it discusses current and novel approaches in vaccine development against tuberculosis, including the role of nanotechnology. With state-of-the-art contributions from experts in the respective domains, this book is an informative resource

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for practitioners as well as medical postgraduate students and researchers.

Disha's General Awareness for MAT/CMAT Exams is an unparalleled tool to master General Awareness. It contains General Awareness as well as current affairs update.

This book discusses the two different cellular approaches that are pursued in regenerative medicine: cell therapy and tissue engineering. It examines in detail the therapeutic application of hematopoietic stem cells in marrow regeneration, multipotent mesenchymal stem cells (MSCs), also referred to as

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mesenchymal stromal cells. The interest in MSCs can be seen in more than 150 clinical trials, some of which have progressed to Phase III, despite the cells' limited differentiation potential. The book also explores how embryonic stem (ES) cells, being pluripotent in nature, can resolve some of the problems associated with adult stem cells, yet entail other challenges like risks of teratoma formation and immune rejection. A separate chapter deals with the role of noncoding RNAs in neuronal commitment of induced pluripotent stem (iPS) cells. Chapters like "Cord blood banking in India and the global

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scenario”; “3D bioprinting of tissue” and others will make this book an extremely interesting read for all students, researchers and clinicians working in the area of regenerative medicine/stem cells. The book is broadly divided into two parts, the first of which is devoted to basic information on stem cells, and the second of which addresses potential clinical applications in the areas of hematology, cardiology, orthopedic and immune suppression, etc.

Breast Cancer Biology

Genome Analysis in Eukaryotes

The Case of Biotechnology in
India

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ScholarlyPaper

Advances in Cyanobacterial
Biology

Science, Agriculture and the
Politics of Policy

Enterobacteriaceae Infections: Advances in Research and Treatment: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Enterobacteriaceae Infections. The editors have built Enterobacteriaceae Infections: Advances in Research and Treatment: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Enterobacteriaceae Infections 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

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Enterobacteriaceae Infections: Advances in Research and Treatment: 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/>.

Issues in Life Sciences: Cellular Biology / 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Life Sciences—Cellular Biology. The editors have built Issues in Life Sciences: Cellular Biology: 2011 Edition on the vast information databases of

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ScholarlyNews.™ You can expect the information about Life Sciences—Cellular Biology 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 Issues in Life Sciences: Cellular Biology: 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/>. Recognition of carbohydrates in biological systems has been gaining more

and more attention in recent years. Although methodology for studying recognition has been developing, there is no volume that covers the wide area of methodology of carbohydrate recognition. This volume, Recognition of Carbohydrates in Biological Systems, Part A: General Procedures, and its companion, Volume 363, present state-of-the-art methodologies, as well as the most recent biological observations in this area. Covers the isolation/synthesis of substances used in studying interactions involving carbohydrates Discussed the methodology for measuring such interactions Biological roles for such interactions are also covered Science, Agriculture and the Politics of Policy examines the intersections of globalisation, technology and politics through a detailed, empirically-based examination of agricultural

biotechnology in India. The focus is on Bangalore and Karnataka, a part of India which has seen a massive growth in biotech enterprises, experimentation with GM cotton and a contested policy debate about the role biotechnology should play in economic development. The book asks what does this new suite of technologies mean - for society, for politics and for the way agriculture, food and rural livelihoods are thought about? Can biotech deliver a second Green Revolution, and so transform agriculture and rescue the countryside and its people from crisis and poverty? Or is it more complex than this? Through a detailed case study, the aim of the book is to discuss, question and refine these broader debates, locating an understanding of biotechnology firmly within an understanding of society and politics.

Bibliographies and Literature of

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Agriculture

Progress in Birth Control Vaccines

A Reprint Volume

Developmental and Evolutionary Aspects

*World List of Serials in Agricultural
Biotechnology*

Current Status And Research

Applications of NMR

Spectroscopy is a book series devoted to publishing the latest advances in the applications of nuclear magnetic resonance (NMR) spectroscopy in various fields of organic chemistry, biochemistry, health and agriculture. The sixth volume of the series features reviews focusing on NMR spectroscopic techniques for studying tautomerism, applications in medical diagnosis, in food chemistry and identifying

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secondary metabolites.

This reprint volume compiles the works of the author on the building of science in developing countries. The purpose of this volume is to improve the accessibility of the literature on science development for interested individuals especially in the Third World Countries.

Contents: The Task and Its Framework: The Task in a Context Research in the Third World The Bridging of the Gap The Personal Angle Some Benefits Research on Science The Problems: The Nature of the Problem Research and Its Applications Communication Managing Science Action: Directions Latent Opportunities Human Resources Science and

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Technology Measuring Science
Readership: Social scientists and
scientists.

"Examines the evolution of
sectoral system of innovation in
industries that are important to
India's economic development"--
Following the success of this
Research Topic

<http://journal.frontiersin.org/researchtopic/3298/regulation-of-gene-expression-in-enteropathogenic-bacteria>, we are happy to launch a second edition of the project. Pathogenic bacteria have evolved numerous strategies to survive in and to attack hosts, which can be reflected by transcriptional and posttranscriptional changes in specific genes especially including those encoding virulence determinants.

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Regulation of gene expression by regulatory proteins and non-coding RNAs enables the pathogens to adapt their metabolic needs and to coordinately express virulence determinants during different stages of infection.

Publication Exchanges of the United States Atomic Energy Commission

Salmonellosis: New Insights for the Healthcare Professional: 2011 Edition

Issues in Biological and Life Sciences Research: 2011 Edition

Proceedings of the Indian Academy of Sciences, Section B.

Issues in Life Sciences: Cellular Biology: 2011 Edition

Asian Scientists on the Move
On the Road to Worldwide

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*Science — Contributions to
Science Development A Reprint
Volume World Scientific
During the last decades a
breakthrough in the
understanding of the
mechanisms controlling
development has been
achieved. This has been
possible, in great part, by the
use of various experimental
approaches. This book focuses
on topics concerning some of
the processes involved in
development, the main
emphasis being on the genetic
and molecular mechanisms in
the evolutionary context.
Drosophila is used as an
experimental model for the*

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genetic approach to the understanding of behaviour. This book puts an updated account on functional aspects of multiphasic microbial interactions within and between plants and their ecosystem. Multipronged interaction in the soil microbial communities with the plants constitute a relay of mechanisms that make profound changes in plant and its micro-environment in the rhizosphere at physiological, biochemical and molecular levels. In agro-ecological perspectives, such interactions are known to recycle nutrients and regulate signalling

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molecules, phytohormones and other small molecules that help plant growth and development. Such aspects are described deeply in this book taking examples from various crop plants and microbial systems. Authors described the most advantageous prospects of plant-microbe interaction in terms of inoculation of beneficial microorganisms (microbial inoculants) with the plants in which microbes proliferate in the root rhizosphere system and benefit plants' with definite functions like fixation of nitrogen, solubilization and mobilization of P, K, Zn and production of

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phytohormones. The subject of this book and the content presented herein has great relevance to the agro-ecological sustainability of crop plants with the help of microbial interactions. The chapters presented focus on defining and assessing the impact of beneficial microbial interactions on different soils, crops and abiotic conditions. This volume entails about exploiting beneficial microbial interactions to help plants under abiotic conditions, microbe-mediated induced systemic tolerance, role of mycorrhizal interactions in improving plant tolerance

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against stresses, PGPR as nutrient mobilizers, phytostimulants, antagonists and biocontrol agents, plant interactions with Trichoderma and other bioagents for sustainable intensification in agriculture, cyanobacteria as PGPRs, plant microbiome for crop management and phytoremediation and rhizoremediation using microbial communities. The overall content entrust advanced knowledge and applicability of diversified biotechnological, techno-commercial and agro-ecological aspects of microbial interactions and inoculants as

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inputs, which upon inoculation with crop plants benefit them in multiple ways.

This textbook has been conceptualized to provide a detailed description of the various aspects of Systems and Synthetic Biology, keeping the requirements of M.Sc. and Ph.D. students in mind. Also, it is hoped that this book will mentor young scientists who are willing to contribute to this area but do not know from where to begin. The book has been divided into two sections. The first section will deal with systems biology - in terms of the foundational understanding, highlighting

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issues in biological complexity, methods of analysis and various aspects of modelling. The second section deals with the engineering concepts, design strategies of the biological systems ranging from simple DNA/RNA fragments, switches and oscillators, molecular pathways to a complete synthetic cell will be described. Finally, the book will offer expert opinions in legal, safety, security and social issues to present a well-balanced information both for students and scientists.

Semicarbazones—Advances in Research and Application: 2012 Edition

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*Frontiers in Protein and Peptide
Sciences*

*National Institutes of Health
Annual Report of International
Activities*

*Journal of the Indian Institute of
Science*

*Structures, Functions, and
Inhibition*

Cancer-Leading Proteases

***Advances in Cyanobacterial
Biology presents the novel,
practical, and theoretical aspects
of cyanobacteria, providing a
better understanding of basic
and advanced biotechnological
application in the field of
sustainable agriculture. Chapters
have been designed to deal with
the different aspects of
cyanobacteria including their role***

***in the evolution of life,
cyanobacterial diversity and
classification, isolation, and
characterization of cyanobacteria
through biochemical and
molecular approaches, phylogeny
and biogeography of
cyanobacteria, symbiosis,
Cyanobacterial photosynthesis,
morphological and physiological
adaptation to abiotic stresses,
stress-tolerant cyanobacterium,
biological nitrogen fixation.
Other topics include circadian
rhythms, genetics and molecular
biology of abiotic stress
responses, application of
cyanobacteria and cyanobacterial
mats in wastewater treatments,
use as a source of novel stress-
responsive genes for
development of stress tolerance***

and as a source of biofuels, industrial application, as biofertilizer, cyanobacterial blooms, use in Nano-technology and nanomedicines as well as potential applications. This book will be important for academics and researchers working in cyanobacteria, cyanobacterial environmental biology, cyanobacterial agriculture and cyanobacterial molecular biologists. Summarizes the various aspects of cyanobacterial research, from primary nitrogen fixation, to advanced nano-technology applications Addresses both practical and theoretical aspects of the cyanobacterial application Includes coverage of biochemical and molecular approaches for the

identification, use and management of cyanobacteria
"Dancing protein clouds: Intrinsically disordered proteins in the norm and pathology"
represents a set of selected studies on a variety of research topics related to intrinsically disordered proteins. Topics in this update include structural and functional characterization of several important intrinsically disordered proteins, such as 14-3-3 proteins and their partners, as well as proteins from muscle sarcomere; representation of intrinsic disorder-related concept of protein structure-function continuum; discussion of the role of intrinsic disorder in phenotypic switching;

consideration of the role of intrinsically disordered proteins in the pathogenesis of neurodegenerative diseases and cancer; discussion of the roles of intrinsic disorder in functional amyloids; demonstration of the usefulness of the analysis of translational diffusion of unfolded and intrinsically disordered proteins; consideration of various computational tools for evaluation of functions of intrinsically disordered regions; and discussion of the role of shear stress in the amyloid formation of intrinsically disordered regions in the brain. Provides some recent studies on the intrinsically disordered proteins and their functions, as

well as on the involvement of intrinsically disordered proteins in pathogenesis of various diseases Contains numerous illustrative materials (color figures, diagrams, and tables) to help the readers to delve in the information provided Includes contributions from recognized experts in the field

A much-needed primer on the use of laser flow cytometry for stemcell analysis Laser flow cytometry is a powerful tool for rapid analysis of cells for marker expression, cell cycle position, proliferation, and apoptosis. However, no resources specifically address the use of this methodology for the study of stem cells; this is especially important as stem cell

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analysis involves specialized methods and staining procedures based on specific characteristics such as marker expression, cell size, drug transport, and efflux of the stem cells. Now, this book reviews these procedures, discusses the science behind them, and provides real-world examples to illustrate the usefulness of the methods. It brings together world-class experts in pathology, biophysics, immunology, and stem cell research, who draw upon their extensive experience with the methods and show examples of good data to help guide researchers in the right direction. Chapter coverage includes: Stem cell analysis and sorting using side population Flow cytometry

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in the study of proliferation and apoptosis Stem cell biology and application Identification and isolation of very small embryonic-like stemcells from murine and human specimens Hematopoietic stem cells—issues in enumeration Human embryonic stem cells: long-term culture andcardiovascular differentiation Limbal stem cells and corneal regeneration Flow cytometric sorting of spermatogonial stem cells Breast cancer stem cells Stem cell marker expression in cells from body cavityfluids This book is an essential resource for all graduate students,practitioners in developing countries, libraries and bookrepositories of universities and research

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institutions, and individual researchers. It is also of interest to laboratories engaged in stem cell research and use of stem cells for tissue regeneration, and to any organization dealing in stem cell and tissue regeneration research.

This book offers a comprehensive overview of recent developments in the field of breast cancer biology. It is a complete and descriptive reference on signaling pathways and new treatment options for the future transnational scientists and clinicians working on cancer research and treatment. We greatly appreciate the work of all the contributors to this book. They have brought with them tremendous diversity of

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perspectives and fields, which is truly reflective of the complexity of the topic, and they have come together in this project to serve as the node of multidisciplinary collaboration in this field. Finally, we must acknowledge the thousands of cancer patients who have participated in the studies, and who have inspired us to gather information to significantly progress knowledge in the field in recent years.

Innovation in India

Pandemic Outbreaks in the 21st Century

Stress and Environmental Regulation of Gene Expression and Adaptation in Bacteria, 2 Volume Set

Changing Science in a Changing Asia

***Plant-Microbe Interactions in
Agro-Ecological Perspectives
Epidemiology, Pathogenesis,
Prevention, and Treatment***

Unravelling the intricate cell signalling networks and their significance in cancer poses major intellectual challenge. Keeping this in mind, the book aims at understanding the mechanism of action of different proteins and their complexes in the cancer signalling pathways. Hence, the proposed book that

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comprises 20 chapters provides a comprehensive introduction on cell signalling, its alterations in cancer, molecules that have been popular targets as well as the ones that are emerging as targets. In addition, it discusses different forms of therapy that are coming up for its treatment. Other than that, a major portion of the book is focused on studying different disciplines at the interface of biology and other areas of

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science that are being used to understand cancer biology in depth. This volume is authored by Rajat K. Baisya, alumnus of the department of Food Technology and Biochemical Engineering and a distinguished scholar, author and management consultant. The foundations of Jadavpur university and its origins as a technological institution imagined in a nationalist mould, established as a counter

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to the colonial British education and as a part of the movement for independence, are relatively well-known. What is less explored is the journey that the National Council of Education underwent to transform itself into the Jadavpur University. As a premier institution of higher learning in India at the present time, Jadavpur University has a number of stalwart professors to thank for its worldwide reputation.

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This book covers the biographies of twenty-two such professors of the Faculty of Engineering and Technology. Written from the 'technological perspective', the book attempts to trace a form of history of Jadavpur University through the microhistories of the individuals responsible for its beginnings and subsequent growth. Combining Economic Growth with Inclusive Development
Volume 2: Microbial

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Interactions and Agro-
Ecological Impacts

Mycobacterium

Tuberculosis: Molecular
Infection Biology,

Pathogenesis,

Diagnostics and New

Interventions

Contraception Research

for Today and the

Nineties