



NRCRI



BIOTECHNOLOGY SOCIETY OF NIGERIA



ANNUAL INTERNATIONAL CONFERENCE **UMUDIKE 2025**

THEME:

INNOVATIVE BIOTECHNOLOGY FOR NATIONAL GROWTH: PATHWAYS TO FOOD SECURITY, HEALTH AND ENVIRONMENTAL SUSTAINABILITY



KEYNOTE SPEAKER:

PROFESSOR NWADIUTO (DIUTO) ESIOBU

DEPARTMENT OF BIOLOGICAL SCIENCES FLORIDA ATLANTIC UNIVERSITY, USA.

PRE-CONF. WORKSHOP DATE
AUGUST 18 - 19 2025

CONFERENCE DATE
AUGUST 20 - 22 2025

MOU/NU/NRCRI,
UMUDIKE, ABIA STATE

CONFERENCE REGISTRATION

Members	-	N35,000.00
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INVITATION

Local Organizing Committee (LOC), on behalf of the National Executive Council (NEC), cordially invites you to the 37th Annual International Conference of the Society, jointly hosted by the National Root Crops Research Institute (NRCRI) and Michael Okpara University of Agriculture, Umudike, Abia State, Nigeria.

GUIDELINE FOR PAPER SUBMISSION

1. A paper should not be more than 4 pages (single line space) on A4 format with a margin of 2.54cm or 1" on each side.
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PRE-CONFERENCE WORKSHOP

- Hands-on training on:
- DNA/RNA Extraction
- PCR techniques
- Gel electrophoresis/documentation
- Primer Design, BLAST, Alignment, Phylogenetic Analysis
- Single Nucleotide Polymorphism (SNP) Markers processing
- Transcription and Translation Analysis of DNA Molecules.
- Gene Discovery and Annotations
- Molecular Docking

CONFERENCE PROGRAMME

- DAY 1: WEDNESDAY 20th AUGUST, 2025
Registration, Opening Ceremony, Exhibition, Plenary and Cocktail.
- DAY 2: THURSDAY 21st AUGUST, 2025
Technical sessions
- DAY 3: FRIDAY 22nd AUGUST, 2025
Technical Sessions/AGM and Closing

SUB THEMES

- Biotechnology Innovations for National Growth in Bioeconomy (BIB)
- Biotechnology Innovations in Food Systems and Food Security (BIF)
- Biotechnology Innovations and Biopharmaceuticals for Healthcare (BIFH)
- Biotechnology Innovations for Environmental

BRIEF ON BSN

The Biotechnology Society of Nigeria (BSN) is a non-

Biotechnology In Society

Hallam Stevens



Biotechnology In Society:

Biotechnology in Society Joseph G. Perpich,1986 Biotechnology and Society Hallam Stevens,2016-10-06 With
Biotechnology and Society Hallam Stevens offers an up to date primer to help us understand the interactions of
biotechnology and society and the debates controversies fears and hopes that have shaped how we think about bodies
organisms and life in the twenty first century Stevens addresses such topics as genetically modified foods cloning and stem
cells genetic testing and the potential for discrimination fears of and in some cases hopes for designer babies personal
genomics biosecurity and biotech art Taken as a whole the book presents a clear authoritative picture of the relationship
between biotechnology and society today and how our conceptions and misconceptions of it could shape future developments
It is an essential volume for students and scholars working with biotechnology while still being accessible to the general
reader interested in the truth behind breathless media accounts about biotech s promise and perils *Biotechnology and
the Future of Society* The Emirates Center for Strategic Studies and Research,2004-10-20 Breakthroughs in biotechnology
are redefining the very concept of life transforming society and presenting unprecedented opportunities and challenges Will
human genome sequencing help to treat genetic diseases and indefinitely prolong life Will stem cell therapy and tissue
engineering allow routine regeneration and replacement of diseased organs Can new diagnostic tests revolutionize medicine
and healthcare Will genetic engineering allow parents to design perfect babies Can nature s workshop inspire superior
biomaterials that transform industries Will genetically modified super crops feed a hungry world With biotechnology set to be
the driving force of the twenty first century mastery of the life sciences will be the key to wealth generation and economic
ascendancy Can the Arab World regain its past supremacy in these fields Can it benefit from the biotech revolution while
avoiding its perils Such implications were debated by experts at the ECSSR Eighth Annual Conference titled Biotechnology
and the Future of Society Challenges and Opportunities held from January 11 13 2003 in Abu Dhabi United Arab Emirates
This volume of conference presentations explores the broad impact of the biotech revolution highlighting trends in
healthcare and molecular medicine the genetic revolution in agriculture the future of materials production new drug
discovery technologies and national security issues including the threat of bio terrorism It also examines the complex ethical
legal and social issues raised by the biotech revolution that need to be resolved by governments and decision makers

Bioenergy and Environmental Biotechnology for Sustainable Development Akinola Rasheed Popoola,Emeka
Godfrey Nwoba,James Chukwuma Ogbonna,Charles Oluwaseun Adetunji,Nwadiuto (Diuto) Esiobu,Abdulrazak B.
Ibrahim,Benjamin Ewa Ubi,2022-05-10 This book covers a range of important topics on environmental remediation biofuels
and value added microbial products for environmental clean up water and wastewater recycling and sustainable wastewater
treatment using microalgae Designed to document advances in biotechnology this book highlights bio resource utilization in
fostering low carbon renewable energy based economies and provides new insights into chlorine disinfectant usage in water

treatment wastewater treatment using microalgae etc The book will be useful reference material for scientists and researchers in the fields of microbial biotechnology and bioremediation environmental biotechnology and sustainable development climate change mitigation provision of safe water and sustainable wastewater recycling Emphasizes recent advances in bioremediation techniques towards environmental sustainability Provides detailed information on how to harness indigenous bio resources including microorganisms as bioenhancement agents for environmental remediation Introduces new frontiers in the area of wastewater treatment using microalgae important for sustainability and water safety Reviews biotechniques that could enhance higher levels of sustainability in heavily polluted environments and also provides an intelligent monitoring system for waste recycling and environmental remediation and fostering a low carbon renewable energy based bioeconomy Discusses the need for review of existing guidelines on chlorine disinfectant usage for enhanced water quality Akinola Rasheed Popoola Ph D is a Professor of Plant Pathology and the Director of the Biotechnology Centre Federal University of Agriculture Abeokuta Nigeria Emeka Godfrey Nwoba Ph D is a research scholar at the Algae Research Development Centre Murdoch University Western Australia James Chukwuma Ogbonna Ph D is a Professor of Microbiology and Biotechnology and Director National Biotechnology Development Agency South East Zonal Biotechnology Centre University of Nigeria Nsukka Nigeria Charles Oluwaseun Adetunji Ph D is an Associate Professor of Microbiology and Biotechnology and Director of Intellectual Property and Technology Transfer Edo State University Uzairue Nigeria Nwadiuto Diuto Esiobu Ph D is a Professor of Microbiology and Biotechnology at Florida Atlantic University Boca Raton FL USA and the President and Founder of Applied Biotech Inc and ABINL Abuja Nigeria Abdulrazak B Ibrahim Ph D is a Capacity Development Expert at the Forum for Agricultural Research in Africa FARA and an Associate Professor of Biochemistry Ahmadu Bello University Zaria Nigeria Benjamin Ewa Ubi Ph D is a Professor of Plant Breeding and Biotechnology and Director Biotechnology Research and Development Centre Ebonyi State University Abakaliki Nigeria

Bioseparations of Proteins Ajit Sadana, 1997-11-27 This book covers the fundamentals of protein inactivation during bioseparation and the effect on protein processing Bioseparation of Proteins is unique because it provides a background of the bioseparation processes and it is the first book available to emphasize the influence of the different bioseparation processes on protein inactivation Bioseparation of Proteins covers the extent mechanisms of and control of protein inactivation during these processes along with the subsequent and essential validation of these processes The book focuses on the avoidance of protein biological product inactivation at each step in a bioprocess It compares protein inactivation exhibited during the different bioseparation processes by different workers and provides a valuable framework for workers in different areas interested in bioseparations Topics include separation and detection methods estimates of protein inactivation and an analysis of this problem for different separation processes strategies for avoiding inactivation the molecular basis of surface activity and protein adsorption process monitoring and product validation techniques and the economics of various bioseparation

processes and quality control procedures Key Features Protein inactivation and other aspects of biological stability are critical to an effective bioseparation process This book is a detailed and critical review of the available literature in an area that is essential to the effectiveness validation and economics of bioseparation processes for drugs and other biological products Conveniently assembled under one cover the survey of the literature and resulting perspective will greatly assist engineers and chemists in designing and improving their own processes Key features of the text include detailed data on biological stability under various bioseparation conditions extensive case studies from the literature on separation processes validation and economics simplified analysis of protein refolding and inactivation mechanisms consideration of adsorption theories and the effect of heterogeneity coverage of both classical and novel bioseparation techniques including chromatographic procedures

Fermentation and Algal Biotechnologies for the Food, Beverage and Other Bioproduct Industries James Chukwuma Ogbonna, Sylvia Uzochukwu, Emeka Godfrey Nwoba, Charles Oluwaseun Adetunji, Nwadiuto (Diuto) Esiobu, Abdulrazak B. Ibrahim, Benjamin Ewa Ubi, 2022-05-10 This book covers a range of important topics on dairy and fermented foods and microalgae biotechnologies for food beverage and bioproduct industries The topics range from traditionally fermented African foods fermentation technologies for large scale industrial enzyme production to microalgae cultivation and nutraceuticals in Africa etc The editors provide detailed information on approaches towards harnessing indigenous bioresources for food and nutrition security climate change adaptation industrial enzyme production environmental remediation and healthcare delivery The book will be useful reference material for scientists and researchers working in the field of dairy and food biotechnology fermentation technology enzyme biotechnology algal biotechnology and cultivation systems biofuels and other bioproducts from algal biomass and underutilized and novel African food sources Emphasizes recent advances in biotechnologies that could ameliorate the high level global food insecurity through fermentation technologies applicable to traditional African indigenous and underutilized novel foods algal biotechnology and value added bioproducts Provides detailed information on how to harness indigenous bioresources including microalgae for food and nutrition security climate change adaptation industrial enzyme production environmental remediation and healthcare delivery Introduces new frontiers in the area of large scale enzyme production using fermentation biotechnologies and their applications in the food and beverage industries Discusses current biotechnologies applicable in the food beverage and bioproduct industries James Chukwuma Ogbonna Ph D is a Professor of Microbiology and Biotechnology and Director National Biotechnology Development Agency South East Zonal Biotechnology Centre University of Nigeria Nsukka Nigeria Sylvia Uzochukwu Ph D is a Professor of Food Science and Biotechnology and Director Biotechnology Centre Federal University Oye Ekiti Nigeria Emeka Godfrey Nwoba Ph D is a research scholar at the Algae Research Development Centre Murdoch University Western Australia Charles Oluwaseun Adetunji Ph D is an Associate Professor of Microbiology and Biotechnology and Director of Intellectual Property and Technology Transfer Edo State

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Microbiomes and Emerging Applications Nwadiuto (Diuto) Esiobu, James C. Ogbonna, Charles Oluwaseun

Adetunji, Olawole O. Obembe, Ifeoma Maureen Ezeonu, Abdulrazak B. Ibrahim, Benjamin Ewa Ubi, 2022-05-10 This book covers a range of important topics and recent advances in metagenomics microbiomes and their emerging applications including microbiota transplantation and its health implications It also discusses microbiome composition and development in humans The contributors of this volume provide detailed information on prebiotics and probiotics for enhanced human health They also introduce microbiomes as the next frontiers in medicine agriculture industry and environment A chapter is presented that discusses probiotic research studies in Nigeria and Canada that led to the discovery of *Lactobacillus pentosus* KCA1 The book contains timely knowledge and will be useful reference material for scientists and researchers working in the fields of food and agricultural biotechnology biopharmaceuticals and medical biotechnology fermentation technology environmental biotechnology microbiomes and microbial biotechnology and health care Emphasizes recent advances in metagenomics and microbiomes and their emerging applications in medicine agriculture industry and environment Provides detailed information on prebiotics and probiotics for enhanced human health Introduces microbiomes as the next frontiers in medicine agriculture industry and environment Reviews microbiota transplantation health implications and the way forward Discusses microbiome epigenetic host interactions essential for the physiological functions of the body in health and disease Nwadiuto Diuto Esiobu Ph D is a Professor of Microbiology and Biotechnology at Florida Atlantic University Boca Raton FL USA and the President and Founder of Applied Biotech Inc and ABINL James Chukwuma Ogbonna Ph D is a Professor of Microbiology and Biotechnology and Director National Biotechnology Development Agency South East Zonal Biotechnology Centre University of Nigeria Nsukka Nigeria Charles Oluwaseun Adetunji Ph D is an Associate Professor of Microbiology and Biotechnology and Director of Intellectual Property and Technology Transfer Edo State University Uzairue Nigeria Olawole O Obembe Ph D is a Professor of Plant Biotechnology and UNESCO Chair Plant Biotechnology Covenant University Ota Nigeria Ifeoma Maureen Ezeonu Ph D is a Professor of Medical Microbiology and Molecular Genetics in the Department of Microbiology University of Nigeria Nsukka Nigeria Abdulrazak B Ibrahim Ph D is a Capacity Development Expert at the Forum for Agricultural Research in Africa FARA and Associate Professor of Biochemistry Ahmadu Bello University Zaria Nigeria Benjamin Ewa Ubi Ph D is a Professor of Plant Breeding and Biotechnology and Director Biotechnology Research and Development Centre Ebonyi State University Abakaliki Nigeria

Bibliographies and Literature of Agriculture, 1978

Biotechnics and Society Sheldon Krimsky,1991-07-10 An overview of the first ten years of the industrial revolution in applied molecular genetics this work discusses the birth and expectations of the biotechnology industry the response to products of genetic engineering and the social and political discourse on the direction of biotechnology *Proceedings of the American Society for Composites ... Technical Conference* ,1986 Science and Technology in Society ,2009

Science and Technology in Society Daniel Lee Kleiman,2009-02-09 This thoughtful and engaging text challenges the widely held notion of science as somehow outside of society and the idea that technology proceeds automatically down a singular and inevitable path Through specific case studies involving contemporary debates this book shows that science and technology are fundamentally part of society and are shaped by it Draws on concepts from political sociology organizational analysis and contemporary social theory Avoids dense theoretical debate Includes case studies and concluding chapter summaries for students and scholars Bioprocessing Safety Warren C. Hyer,1990 **Contextualizing Systems Biology**

Martin Döring,Imme Petersen,Anne Brüninghaus,Regine Kollek,2015-12-18 This collective monograph aims at contributing to an improved understanding of the epistemic presumptions sociocultural implications and historically backgrounds of the newly emerging and currently expanding approach of systems biology In doing so it offers empirically grounded valuable and reflexive information about a paradigmatic shift in the biosciences for a wide range of scientists working in the interdisciplinary areas of systems biology synthetic biology molecular biology biology the philosophy of science the sociology of science and scientific knowledge science and technology studies technology assessment and the like The authors of this monograph share the theoretical methodological premise that science is a culturally and socially embedded practice which characterizes our culture as a scientific one and at the same time draws its innovative potential from its socio cultural context This dialectic relationship lies at the heart of the current development of systems biology which is conceived as a so called successor of omics research and triggered by high throughput information technologies At the same time a need for a holistic conceptualization of complex biological processes emerges The title Contextualizing Systems Biology suggests that this book analyzes the development and advent of systems biology from different theoretical and methodological perspectives We investigate a variety of contexts ranging from the analysis of cognitive contexts such as basic theoretical concepts to regulative contexts policies to the concrete application of a systems biology in the socio scientific context of a European research project In empirically analyzing these different and interrelated layers and dimensions of systems biology the scope of the book goes beyond present attempts to investigate the advent of new approaches in the biological sciences as it frames and assesses systems biology from an interdisciplinary and integrated perspective *Regulating Modern Biotechnology in a Global Risk Society* J. Somsen,2005 Annotation This title can be previewed in Google Books <http://books.google.com/books/vid/ISBN9789056293932> **Agricultural Biotechnology** Bill R. Baumgardt,Marshall A. Martin,1991 □□□□□□□□□□□□□□□□

□□□□ □□□□□□ (Japan),1900 **Sources** ,1997 *Biotechnology* Nico Stehr, While other books have addressed isolated

aspects of recent developments in the biomedical sciences *Biotechnology Between Commerce and Civil Society* is the first book to engage with the full range of biotechnology's implications for social science and for society at large. Professor Volker Meja: New scientific knowledge is no longer merely the key to unlocking the secrets of nature and society. It now represents the becoming of a new world. Scientific developments affect the ways in which we conduct our affairs as well as how we comprehend the changes underway as the result of novel technical artefacts and scientific knowledge. The practical fruits of biotechnology are a case in point: they have grasped our imaginations and generated worldwide debate and concern. Debates on biotechnology shift between images of utopia and dystopia. The social sciences deserve a voice in the debate and can do so through sober examination of the economic, social and cultural implications of biotechnology. Some economists even predict that the importance of biotechnology as the technology of the future will far exceed that of the information technologies, in particular the Internet. The contributors to this volume are drawn from a broad spectrum of the social sciences and include Nico Stehr, Gene Rosa, Steve Fuller, Steve Best and Douglas Kellner, Nikolas Rose, Fred Buttel, Javier Lezaun, Anne Kerr, Susanna Hornig, Priest and Toby Ten Eyck, Martin Schulte, Alexander Somek, Steven P. Vallas, Daniel Lee Kleinman, Abby Kinchy and Raul Necochea, Herbert Gottweis, J. Rogers Hollingsworth, Gsli Plsson, Elizabeth Ettore, Richard Hindmarch and Reiner Grundmann. The impact of science on society is destined to be a fundamental concern in the new century. This volume illustrates the contributions anthropology, law, political science and sociology can make to the ongoing discussions about the role of biotechnology in modern societies. Nico Stehr is senior research associate, Institut für Technikfolgenabschätzung, Forschungszentrum Karlsruhe and Institut für Kstenforschung, GKSS, Germany. He also is a fellow in the Center for Advanced Cultural Studies in Essen, Germany, editor of the *Canadian Journal of Sociology* and a fellow of the Royal Society of Canada. Among his recent books are *Werner Sombart: Economic Life in the Modern Age* with Reiner Grundmann, published by Transaction; *The Fragility of Modern Societies: Knowledge and Risk in the Information Age*; *Knowledge and Economic Conduct*; *The Social Foundations of the Modern Economy*; and *Wissenspolitik: Die berwachung des Wissens*.

Food Biosynthesis Alexandru Mihai Grumezescu, Alina Maria Holban, 2017-06-19. *Food Biosynthesis*, Volume One in the Handbook of Food Bioengineering series, describes the main aspects related to the biological production of synthetic ingredients and natural foods, highlighting the impact of bacteria and plants in the biosynthesis of key food components. Biosynthesis methods could help solve issues like food shortages, providing consumers with preferred natural food options. This book represents how biologically synthesized ingredients such as vanilla flavoring, soy milk and egg substitutes can be utilized as a desired option for future foods. It is ideal for scientists and researchers who want to improve their knowledge on the field of food biosynthesis. Presents practical approaches of biosynthesis and the impact of biological origin on the field of food engineering. Offers alternative applications to produce natural foods. Includes processes and techniques to produce health promoting foods. Discusses the positive effects of biosynthesis on microbial production to enhance food safety.

Offers a variety of perspectives on biosynthesis and its benefits for food ingredient production

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Biotechnology In Society Introduction

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