

National Conference
on
**BIOTECHNOLOGY FOR SUSTAINABLE
ENVIRONMENT, AGRICULTURE,
HEALTH, BIODIVERSITY,
AND INDUSTRY (BIOTECH-2024)**

*Touching the Earth for Global Sustainability:
The Earth Day Celebration*

22-23 April, 2024

Gujarat Biotechnology University (GBU)
Gandhinagar, Gujarat, India



Jointly Organized by

Gujarat Biotechnology University (GBU)
Gandhinagar, Gujarat, 382355, India

&

National Environmental Science Academy (NESAs), New Delhi

About the Conference

Many of the issues confronting humanity are the same persistent problems that humans have been solving for generations. Humanity has been hampered since prehistoric times by hunger, energy crises, food instability, sickness, the need for raw materials, and pollution. Nevertheless, throughout history, the creation of new technology has made it possible for our quality of life to dramatically increase, but humanity has still struggled to meet these difficulties. Biotechnologies are widely used, have a wide range of uses, and have enormous potential to help solve these problems. Biotechnology refers to the utilization of biological processes for industrial and other objectives, particularly the genetic engineering of microbes to produce hormones, antibiotics, and other compounds. Numerous countries have already benefited from the use of biotechnology in the fields of energy generation, food production, biocatalysis, mining, and the synthesis of novel materials. Better health care, increased food security, increased supplies of potable water, more effective industrial development processes for transforming raw materials, support for sustainable methods of afforestation and reforestation, and detoxification of hazardous wastes are just a few of the things that biotechnology promises to significantly enable. Biotechnology presents fresh chances for international collaboration in support of the UN Sustainable Development Goals (UNSDGs). Biotechnologies are being explored as viable answers to the world's problems about energy, the environment, agriculture, and public health in light of this promising terrain. The complete scope of these biotechnological uses, however, is frequently unknown and still being studied. An international conference was scheduled to thoroughly examine recent developments in biotechnology under the "Biotechnology for Sustainable Environment, Agriculture, Health, Biodiversity, and Industry [BIOTECH-2024]. This conference's main goal is to promote human welfare by having conversations about the potential and difficulties that biotechnologies provide to a variety of industries.

The goal of BIOTECH-2024 is to bring together a broad and varied group of participants, including scholars, industry professionals, young scientists, students, experts, scientists, and policymakers. Using biotechnologies to improve human welfare is the main goal of this conference. It will provide a forum for study and idea sharing to utilize biotechnological advancements to address global issues. This conference invites scholars since it recognizes the importance of many of these issues for both developing and recently industrialized nations, including increasing agriculture yields, protecting public health, and improving waste management. Discussions regarding the advancements and challenges in the field of biotechnologies are welcomed, with an emphasis on the views of emerging and developed nations. The two goals of this conference are to: (1) encourage dialogues about the efficient application of scientific knowledge to the formulation of public policy for the benefit of humanity; and (2) welcome novel concepts and findings about biotechnologies and their wider applications. To accomplish these goals, the conference will be divided into scientific and technical sessions, offering a forum for an in-depth discussion of the advancements and difficulties related to biotechnologies.

This event will feature plenary, keynote, and invited talks by subject matter experts who will address pivotal and contemporary topics, ensuring that participants are well-informed about the most recent advancements in the field of microbial technologies. Additionally, interactive papers and poster sessions will be used as a means of showcasing the research and ideas of scientists and researchers. Deserving researchers will receive awards based on the merits of their work in appreciation of exceptional scientific contributions within several conference categories. Additionally, papers that present noteworthy research findings may be chosen for publication in the conference proceedings, which will help the scientific community share important knowledge. This conference promises to be both an interesting scientific event and a fun experience, and we are confident that it will not only meet but beyond your expectations. We look forward to hearing from you favourably and, if relevant, the working title of your presentation. We sincerely appreciate your time and eagerly anticipate your participation.

THEMES AND SUBTHEMES OF THE CONFERENCE

National Environmental Science Academy (NESAs), New Delhi (BIOTECH-2024) invites abstracts/papers that must be directly relevant to the following themes and sub-themes:

Thematic Areas of the Conference

Abstracts and original research papers are warmly welcomed on any facet of microbial biotechnology applications. The scope of this conference includes but is not limited to the following:

A. Agriculture and Plant Biotechnology

- Plant growth promoting rhizobacteria in biotic and abiotic stress management
- Biofertilizers for sustainable agriculture production
- Biopesticides for crop protection

- Microbial inoculants including, biostimulants and bioformulaton
- Microbes as biocontrol agents
- Microbes as a genetic resource for crop improvement (designer crops)
- Microbes for climate-resilient agriculture
- Microbes for nutrient management
- Genetically engineered plants for stress tolerance
- Genetically engineered plants to tolerate the effect of environmental degradation
- Other applications of microbes in agri-environmental sustainability
- Biotechnology for propagation of plants and germplasm conservation
- Biotechnology for increased yield, pest resistance, and herbicide resistance in crops
- Biotechnology for virus resistance in crops
- Biotechnology to enhance nutrient use efficiency in crop plants
- Biotechnology for biofortification of crop plants
- Genome editing using CRISPR for crop improvement
- Biotechnology for producing genetically modified crops
- Tissue culture and its biotechnological applications
- Multi “Omics” technologies for crop improvement
- High throughput Phenotyping
- High throughput genotyping and its applications in crop improvement
- Molecular markers and marker-assisted breeding in plants
- Plant regeneration via somatic embryogenesis
- Evaluation of genetic diversity in crop plants
- Biotechnology for biodiversity conservation
- Plant microbiome and its applications in the regulation of plant response
- Tools and Database development
- Application of Artificial Intelligence and Machine Learning in crop improvement

B. Environmental Biotechnology and Industrial Biotechnology

- Biomining and Bioremediation of Contaminated Soil/Water/Wastewater/Air
- Microbial enzymes and their engineering for bioremediation
- Phytoremediation and Microbe-assisted phytoremediation of contaminants and effluents
- Microbes and their products for bioremediation
- Biotechnologies for climate management, biogeochemical cycling, and pollution control
- Microbial flocculants, biofilm, biofilters and bioadsorbents for environmental remediation
- Biosensors, MFC, MDC, green synthesized nanoparticles for environmental applications
- GMOs, constructed wetlands, and bioelectrochemical systems for pollution prevention
- Biotechnologies for biofuel, biodiesel (biomass valorization), and bioenergy
- Biomethanation, Biogas & Composting, Biohydrogen
- Biotechnologies for Ozone Layer Depletion and its Prevention
- Applications of “Omics” technologies in environmental biotechnology
- Biocomposting for solid waste management
- Case studies on bioremediation of contaminants and effluents
- Biopolymers including bioplastics, and biomaterials and applications
- Green nanoparticles and nanocomposites and applications
- Biotechnology for making packaging polymers
- Biochar, microbial char, and bioconcrete
- Biotechnological foods (artificial meat, single-cell protein, beverages, supplements)
- Biotechnologically produced cosmetics, nutraceuticals, and novel microbial enzymes
- Microbial surfactants, bioemulsifiers, biosensors, bioprotectants, and antimicrobials
- Secondary metabolites and natural products and value-added products from extremophiles
- Bioprospecting for new microbial metabolites including biopharmaceuticals and proteins
- Metabolic engineering of industrial microbes for value-added product production
- CRISPR-Cas9-based genetic engineering of microbial metabolites biosynthetic pathways
- “Omics” technologies and bioinformatics for industrial product development

C. Medical and Animal Biotechnologies

- Probiotics, edible vaccines and pathogens and antibiotic resistance
- Pharmacogenomics and cancer biotechnology
- Antimicrobial activity of plant extracts and drug discovery
- Monoclonal antibodies for therapy and transgenic animals in healthcare

- Molecular diagnosis of disease, CRISPR Diagnostics and advances in pathogen detection
- Gene therapy, gene editing and therapy drugs in healthcare
- Algae biotechnology for nutritional and pharmaceutical applications
- Biotechnology for the detection and monitoring of emerging viruses
- Human genome sequencing project, stem cells for regenerative medicine
- Development of antibiotics and tissue engineering for healthcare
- Novel methodologies, including PCR and gene sequencing in healthcare
- Use of fluorescence in situ hybridization, microarrays, and cell culture in healthcare
- Applications of gene silencing using interference RNA, and genome editing in healthcare
- RDT for making therapeutic products (such as insulin, hormones, interferons, etc.)
- “Omics” technologies and bioinformatics for healthcare
- Application of Artificial Intelligence and Machine Learning in One Health

About Organizers

Gujarat Biotechnology University

Gujarat Biotechnology University (GBU) is a modern university near GIFT City, Gandhinagar. Funded by the Government of Gujarat's Department of Science and Technology, GBU will create a culture of excellence and innovation with entrepreneurship at its core. Gujarat Biotechnology University is envisioned to be a world-class, academic, research-driven institution and a foundry of transformational knowledge that will train and prepare biotech scientists in cutting-edge, product-focused research to create and deliver a strong pipeline of innovative products for the Bharat (India) of tomorrow. GBU offers master's by Research and Ph.D. biotechnology programs with a strong translational focus, aiming to deliver biotechnology solutions for society, engaging with the vibrant life science industry in Gujarat, and across India. Gujarat Biotechnology University offers postgraduate and doctorate medical, industrial, animal, environmental, and plant biotechnology courses. Gujarat Biotechnology University has a deep collaboration with the world-leading University of Edinburgh (UoE) in a unique partnership, with a UoE-designed progressive curriculum, academic policies, visiting faculty, and faculty development programs. Gujarat Biotechnology University aims to develop future-ready professionals able to address the challenges of translational research for societal problems by developing globally competitive research & innovation-focused ecosystems. Gujarat Biotechnology University aims to create a platform for industry linkages and groundbreaking scientific inventions.

National Environmental Science Academy, New Delhi

National Environmental Science Academy (NESAs) was founded by the Late Prof. TRC Sinha, the then Head of the Zoology Department, MJK PG College, Bihar University to create awareness, promote and protect the environment. Conceptualized and initiated in 1984, the organization was registered as a Society in 1988 under the Societies Act XXI of 1860 at Patna. This Academy is of National level, presently having its Head office at 206, Raj Tower-1, Alaknanda Community Centre, New Delhi. The main objective of the Academy is to bring awareness about environmental issues among the masses and strive for sustainable solutions by arranging lectures, demonstrations, training programs, seminars, symposiums, conferences, publishing journals, and organizing any other activities supporting the cause. The main objective of the Academy is to bring awareness about environmental issues among the masses by arranging lectures, workshops, training programs, seminars, symposia, conferences, publishing journals, etc.

Aims Objectives and Functions of the Academy

- **To enhance and promote the study of the environmental sciences by encouraging students, scientists, researchers, academicians, and members of the Academy to pursue research on the environment and allied areas.**
- **To set up Regional/State Chapters for the dissemination of information on the environment.**
- **To motivate and prepare young minds on environmental management.**
- **To hold the Annual Conference of the Academy.**
- **To organize national/international level conferences, symposia, seminars, meetings, and workshops on themes of environmental concerns.**
- **To publish policy papers, synthesis volumes, proceedings, journals, newsletters, transactions, and other publications for the promotion of Environmental Sciences**
- **To forward the recommendation of scientists/professors to govt. agencies.**
- **To recognize the researchers for their scientific contributions.**

Various eminent personalities have graced the Academy as President. The first President of the Academy was Dr. K.C. Bose, Vice-Chancellor of Ranchi University; then Dr. B.S. Attri, Advisor, Ministry of Environment and Forest. Most recently Padmabhushan Dr. S.Z. Qasim was the President of the Academy till June 2015, he is a renowned marine scientist known for his Antarctica mission in 1981-82, and he also served as the Secretary of the department. of Ocean Development (now Ministry of Earth Sciences); Member, Planning Commission and Vice-Chancellor, Jamia Millia Islamia, New Delhi. Currently, Prof. Javed Ahmad, (Former Dean, Faculty of Science), Jamia Hamdard, New Delhi, is the President of the Academy.

Annual Awards

The Academy recognizes the merit and achievements of individuals who have contributed to the field of environmental science, education, and societal values by conferring the following awards:

- (1) **NESA FELLOWSHIP AWARD**
- (2) **NESA EMINENT SCIENTIST AWARD**
- (3) **NESA SCIENTIST OF THE YEAR AWARD**
- (4) **NESA ENVIRONMENTALIST AWARD**
- (5) **NESA GREEN TECHNOLOGY INNOVATIVE AWARD**
- (6) **NESA DISTINGUISHED SCIENTIST AWARD**
- (7) **WOMEN EXCELLENCE AWARD**
- (8) **NESA YOUNG SCIENTIST AWARD**
- (9) **NESA JUNIOR SCIENTIST AWARD.**

In addition, the Best Oral Presentation and Best Poster Awards are given away during the Annual Conference of the Academy.

Publications

The Academy is publishing the following Journals (Biannual):

- 1) **INTERNATIONAL JOURNAL ON AGRICULTURAL SCIENCES**
- 2) **INTERNATIONAL JOURNAL ON ENVIRONMENTAL SCIENCES**
- 3) **INTERNATIONAL JOURNAL ON BIOLOGICAL SCIENCES**
- 4) **INDIAN JOURNAL OF UNANI MEDICINE**
<http://nesa-india.org/nesa-journal/>
- 5) **E-NESA Newsletter (Monthly)** <http://nesa-india.org/newsletter/>

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Mr. R.K. Sinha, Executive Secretary, NESA, New Delhi

Mrs. Vandana Sinha, Mem. Executive Committee, NESA Delhi & Social Worker, Delhi

Call for Abstract

Abstracts and original papers are invited to the themes and subthemes of the conference for poster and oral presentation. The soft copy of the abstract in MS Word format (Times New Roman, font size 12, spacing 1.5) must contain a suitable title, a list of authors, affiliations, the name of the presenting authors that should be underlined, and contact details of the presenting author including email. The abstract should not be more than 300 words including 5-6 keywords with a major emphasis on the background of the problem, methodology, results, and discussion, and should be submitted to the organizer at biotech2024gandhinagar@gmail.com by **March 15, 2024**. The abstracts will be released in 'Souvenir and Abstract Book' on **22nd April 2024** in the Inaugural Session of the Conference. The participants may present their papers in the Conference by oral/poster whereas UG and PG students of basic sciences are encouraged to demonstrate their innovative ideas through flow charts or models.

Guidelines for Oral and Poster Presentation

Papers are invited for oral and poster presentations. Each oral presentation will be given five (10) minutes, with a maximum of fifteen (15) slides that must contain the following elements: an introduction, material and methods, results, conclusion, title, name, theme, and affiliation on the first slide. It is recommended that the oral presentation be converted to PDF format before the presentation/submission. The poster should be related to the topic and sub-themes of the Conference. Each poster presentation will be given 05 minutes, and the poster should be 3x4 feet with 16 font size, portrait style, and must contain the following elements: a title, name, theme, and affiliation on the top and the introduction, material and methods, results, conclusion as the major portion. All the information including text, figures, graphs, and data must be in a single PPT poster slide and should be well-visible from 1 meter of distance. Use page setup and select the above-given slide size in MS PowerPoint to make a poster presentation. Headings and subheadings in the poster must be in bold and multiple fonts should be avoided. All the posters in PDF format must be submitted to the organizer with a declaration of original research work by the authors at biotech2024gandhinagar@gmail.com on or before **May 30, 2024**.

Conference Award

The Organizing Committee of BIOTECH-2024 will confer the following awards during the conference:

1. **BIOTECH-2024 Best Oral Presentation Award**
2. **BIOTECH-2024 Best Poster Presentation Award**
3. **BIOTECH-2024 Related to Topic (Sustainable Environment)**
4. **BIOTECH-2024 Best Innovation Award (UG/PG students only for Innovative Ideas or Models)**
5. **BIOTECH-2024 Flash Talk Award**

Important Dates

| | |
|--|---------------|
| Registration and Abstract Submission Starts: | 05.01.2024 |
| Deadline of Abstract Submission: | 15.03.2024 |
| Early Bird Registration End: | 15.03.2024 |
| Deadline of Registration (with late fee 500/-) | 31.03.2024 |
| Conference Dates | 22-23.04.2024 |

Note: The above dates are mandatory and strictly followed by the Organizing and Publication Committee.

Registration Fees

| Category | Early Bird Registration (March 15, 2024) | |
|-----------------------------------|--|-------------|
| | NESA Non-Member | NESA Member |
| Faculties/Scientists | Rs. 3500.00 | Rs. 3000.00 |
| Research Project Fellows/Postdocs | Rs. 2000.00 | Rs. 1500.00 |
| Research Scholars/UG-PG Students | Rs.1500.00 | Rs. 1000.00 |
| Industry/Corporate | Rs. 5000.00 | Rs. 4000.00 |
| Foreign Participants | US\$ 200.00 | US\$ 100.00 |

Payment Details

Name: National Environmental Science Academy

Bank Name: Bank of Maharashtra

Branch: Kalkaji Branch, New Delhi-110 019

Account Type: Current Account

Bank Account Number: 60109889476

IFSC Code: MAHB0000974

ACCOMMODATION AND TRANSPORT

The participants should make their arrangements for stay and transportation. The Organizing Committee of the BIOTECH-2024 will arrange some accommodation in the guesthouse near the venue for a few selected delegates and paper presenters. The organizing committee will guide or facilitate the accommodation in nearby hotels if contacted in advance. Interested participants may email their requirements regarding the accommodation to biotech2024gandhinagar@gmail.com and infones88@gmail.com

Contact Person

M: 9650908143 (Dr. Nisha Singh, Organizing Secretary (GBU))

M: 8318961032 (Dr. Gaurav Saxena, Organizing Secretary (NESA))

CONFERENCE SECRETARIAT (BIOTECH-2024)

NATIONAL ENVIRONMENTAL SCIENCE ACADEMY

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Places to Visit Near Gandhinagar, Gujarat

