Central University of Gujarat
Vadodara

Kundhela-391107, Vadodara, Gujarat, India

National Symposium on Biochemistry and Nanotechnology for Environment, Health and Agriculture (NSBNEHA-2025)

Hybrid mode

February 11, 2025

Organized by:

School of Nano Sciences, Central University of Gujarat

Patron

Prof. Rama Shanker Dubey
Hon'ble Vice Chancellor
Central University of Gujarat

Convener
Prof. Pallavi Sharma

Organizing Secretary
Dr. Dheeraj Kumar Singh

Organizing committee

Dr. Deepak Verma, Dr. Charu Lata Dube, Dr. Hitesh Kulhari, Dr. Manu Sharma

Local Advisory Committee

Prof. Bhawana Pathak, Dr. Ambuj Bhushan Jha, Dr. Vimlesh Chandra
Dr. JP Singh, Dr. Sonal Sharma, Dr. Alok Pandey, Dr. Baldev Prajapati

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Invited Speakers

Prof. Kavita Shah
Vice Chancellor of Siddharth University,
Professor, Institute of Environment & Sustainable Development,
Banaras Hindu University

Prof. Akbar Masood
Former Vice Chancellor, Baba Ghulam Badshah University,
Former Head, Department of Biochemistry and
Dean of Academic Affairs, University of Kashmir, Srinagar

Prof. Saripella Srikrishna
Professor & Head, Department of Biochemistry,
Institute of Science, Banaras Hindu University

Prof. Surya Pratap Singh
Professor and Former Head, Department of Biochemistry
Institute of Science, Banaras Hindu University

Prof. Jai Prakash Singh
Professor and Former Head, Department of Panchakarma,
Faculty of Ayurveda, Institute of Medical Sciences
Banaras Hindu University

Prof. Anjana Pandey
Professor, Department of Biotechnology
Motilal Nehru National Institute of Technology Allahabad, Prayagraj

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Background and Rationale

In the face of escalating global challenges, biochemistry, nanotechnology and their integration offer transformative solutions to critical issues in environmental sustainability, health improvement, and agricultural productivity. This interdisciplinary approach leverages the molecular insights of biochemistry with the advanced capabilities of nanotechnology, enabling innovative strategies to address pressing problems.

Objectives of the symposium

- To explore the integration of biochemistry and nanotechnology in solving environmental, health, and agricultural challenges
- To highlight the latest research, innovations, and applications in these interdisciplinary fields
- To promote collaboration between academics, researchers, industry professionals, and policymakers
- To provide a platform for sharing knowledge and best practices in nanotechnology and biochemistry
- To encourage the adoption of sustainable technologies for improving environment, health and agricultural productivity
- To inspire students and early-career professionals to pursue research in biochemistry and nanotechnology
- To discuss the policy implications and strategies for integrating these technologies into real-world solutions

Proposed Themes for Discussion

- Utilizing biochemistry for sustainable solutions in environment, health, and agriculture
- Role of biochemistry in designing bio-inspired nanomaterials for sustainability.
- Nanomaterials for renewable energy and bio-inspired solar cells
- Development of bio-inspired and biocompatible nanoparticles to remove pollutants

Central University of Gujarat, Vadodara

- Nanotechnology-enhanced bioremediation for hazardous waste cleanup
- Nanomedicine: Targeted drug delivery systems using biochemical markers
- Advanced biosensors for early disease diagnostics
- Nanofertilizers and nano-pesticides for sustainable farming
- Role of biochemical signalling in nanoparticle-mediated plant growth promotion
- Boosting plant stress tolerance (salinity, drought) via nanoparticles
- Biochemical stress markers for evaluating nanoparticle efficiency in crops
- Enhancing plant-microbe interactions for better crop growth
- Smart delivery systems for agrochemicals with controlled release
- Nanotechnology for Food Safety and Security
- The future of biochemistry and nanotechnology in global challenges

Fees: No fees for conference

Important Dates:

Last date for abstract submission: February 1, 2025

Notification of acceptance of abstract: February 5, 2025

Paper presentations:

Oral/Poster presentations will be made through the offline and online Google meet/zoom/MS team

Participants will receive certificate of participation and paper presentation

Registration and Abstract Submission:

Abstract of maximum 300 words (in MS-word only) should be submitted through the following registration link of google form before February 1, 2025. Link: https://forms.gle/Y3gZ5GG2yN4GQVyg6

QR Code for registration and Abstract Submission: