



LOVELY
PROFESSIONAL
UNIVERSITY

Transforming Education Transforming India

NAAC
GRADE **A++**



भारतीय सूक्ष्मजीवशास्त्र संसद
Association of Microbiologists of India



ICMBSDG

Microbial Bioprospecting Towards Sustainable Development Goals

INTERNATIONAL CONFERENCE ON
**MICROBIAL
BIOPROSPECTING
TOWARDS
SUSTAINABLE
DEVELOPMENT
GOALS
(ICMBSDG)**

24th-25th Nov, 2023 | (Hybrid Mode)



DEPARTMENT OF BIOTECHNOLOGY
MINISTRY OF SCIENCE & TECHNOLOGY, GOVERNMENT OF INDIA

Funded by Department of Biotechnology
Ministry of Science & Technology New Delhi

Sponsored by



Organized by

Association of Microbiologist of India-LPU Unit, Department of Microbiology,
School of Bioengineering and Biosciences, Lovely Professional University,
Phagwara, Punjab, India

In association with

Society of Chemical and Synthetic Biology, India



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ABOUT LOVELY PROFESSIONAL UNIVERSITY

Lovely Professional University (LPU) is a multi-faculty research-oriented institution with hi-tech campus offering more than 200 professional programmes. LPU campus is a complete world in itself having students from 28 states of India and more than 50 countries of the world.

LPU is a world class institution with internationally benchmarked curricula, innovative pedagogy focused on experiential learning, cutting edge research, 300+ foreign tie-ups, well qualified faculty with industry exposure, outstanding sports & cultural facilities, excellent residential facilities, In-campus shopping mall, hospital, banks, postal services etc.

The University is ranked high on various parameters by Government Bodies and other credible organisations. LPU is recipient of various awards and recognitions and accreditations. LPU receives **Highest Grade A++** with 3.68 score on 4 Point Scale by **NAAC** (National Assessment & Accreditation Council), an Autonomous Institution of the University Grants Commission (UGC), Ministry of Education, Govt. of India. It is the highest score in 1st cycle of Accreditation among all Govt and Private universities. Times Higher Education Impact Ranking 2023 has ranked LPU 2nd in India. The Times Higher Education World University Rankings 2023 has ranked LPU 23rd amongst Top Universities of India (Both Govt. & Private). The University has also been ranked 38th in NIRF Rankings 2023 by Ministry of Education, Govt. of India amongst all government and private universities in India. It has been ranked amongst top institutions of India in various disciplines i.e., 16th in Architecture, 16th in Law, 17th in Pharmacy, 27th in Agriculture, 32nd in Management, 42nd in Research and 50th in Engineering. LPU also has the distinction of being the first private university in India to get ICAR accreditation from Ministry of Agriculture, Govt. of India for its Agriculture programmes.

SCHOOL OF BIOENGINEERING AND BIOSCIENCES

School of Bioengineering and Biosciences was established at LPU in the year 2006. The school has now created a competitive and research-friendly environment with its infrastructure and facilities. The school has eight domains namely, Biotechnology, Biochemistry, Microbiology, Molecular Biology & Genetic Engineering, Zoology, Botany, Bioinformatics, and Forensic Sciences. The school focuses primarily on the quality of education given to the students and has recruited high competent faculty from diverse educational, industrial and research background.



ABOUT THE CONFERENCE

AMI-LPU UNIT invites all the Speakers, Delegates, Researchers, Students and Industrialists to attend International Conference during Nov 24th -25th , 2023 at Lovely Professional University, Punjab, India around the theme Microbial Bioprospecting Towards Sustainable Development goals. This event has taken the initiative to gather the world-class experts both from Academic and Industry in a common platform at International Conferences to share their recent research findings to the world and enlighten other esteemed delegates on latest and futuristic trends in the field of Microbiology and its bio prospective potential to help achieve Sustainable Development Goals. The ultimate goal of this conference is to provide an opportunity for all the Attendees to meet, interact, and exchange new ideas in the various areas of Microbiology.

ASSOCIATION OF MICROBIOLOGIST OF INDIA-LPU UNIT

The Association of Microbiologists of India (AMI) has been playing a pivotal role in popularizing microbiology in the country. AMI-LPU unit at Lovely Professional University (LPU), Phagwara, Punjab, India was formed in the year 2018 and committed to popularizing microbiology in and nearby areas of Punjab via organizing conferences, seminars, meetings, workshops and trainings.

SYNTHETIC AND CHEMICAL BIOLOGY SOCIETY (SCSB)

Society was established in 2019, with a clear and specific purpose in mind; to promote the understanding and dissemination of Synthetic and Chemical Biology principles, as well as providing access to essential resources. With an eye towards fostering collaboration and innovation, SCSB brings together promising synthetic biology researchers from across the globe at its annual workshops and conferences. This vibrant forum serves as a hub of inspiration and support, facilitating connections between young aspirants and industry veterans, as well as enabling the free-flowing exchange of ideas. The ultimate goal of the Synthetic and Chemical Biology Society is nothing less than the transformation of the way we understand and interact with the world around us. Through tireless effort and dedication, SCSB seeks to unlock the secrets of the building blocks of life

itself, enabling us to harness these powerful tools to create a better, brighter future for all.

The conference emphasizes integrated analyses and perspectives, therefore particularly welcomes contributions on the following cross-cutting topics on SDGs Goals

DEPARTMENT OF MICROBIOLOGY

Department of Microbiology was established in 2006 and offers Undergraduate, Post-graduate and Doctorate programs in Microbiology. The thrust areas of the Department include Microbial Metabolites, PGPRs, Bioremediation, Fermented Food & Beverages, and Medical Microbiology. The Department is well-equipped with modern laboratories to provide quality teaching and research opportunities for students.

SUB THEMES

(United Nation Sustainable Development goal 2 on Zero Hunger)

- Exploring and Characterizing Mushrooms for all forms of malnutrition
- Mushroom culturing in enhancing agricultural productivity
- Mushroom cultivation for small scale food producers particularly women indigenous peoples and family farmers
- Mushroom research for market exploration and opportunities
- Mushroom characterization and production for value additions and non-farm employment
- Food and Industrial microbiology
- Microbial nanotechnology
- Microbial Science of Food Fermentations
- Food Nanotechnology
- Human Health in Probiotics

(United Nation Sustainable Development Goal 3 on Good Health and Well Being)

- Microbial diseases
- Emerging and reemerging diseases
- Antimicrobial Resistance
- Environmental Microbiology
- Pathogenicity and Virulence
- Forensic Microbiology
- Synthetic Biology
- Microbiomes
- Microbiology Production and application of microbial metabolites
- Enzyme technologies
- Drugs and pharmaceutical technology
- Food processing technology
- Value added products from industrial byproducts
- Feed stocks (biomass) for renewable energy generation Biofuels (bio-diesel, bio-ethanol and bio-gas)
- Environmental chemistry
- Waste management and treatment methods Modeling of environmental processes
- Microbial products such as antimicrobials, enzymes, beverages, drugs, toxins, vitamins, amino acids, organic acids, solvents, food products, and recombinant proteins.

(United Nation Sustainable Development Goal 15 on Life on Land)

- Protect, restore and promote sustainable use of terrestrial microorganisms
- Sustainable management of land using microorganisms
- Microbes for food security
- Combating environmental changes using microorganisms
- Prevention of land degradation
- Microorganisms for sustainable agriculture
- Microorganism-assisted land and forest regeneration

(United Nation Sustainable Development Goal 14 on Life Below Water)

- Role of microbes in water purification
- Sources, Fate and Behavior of Microorganisms in Water Monitoring of microbial contamination in water
- Assessment of risk and risk management for water-related infectious disease
- Challenges and Consequences of waterborne pathogens
- Microbiology of antibiotic resistant microorganism
- Antimicrobial resistance and bacterial strains
- Resistance to antagonistic compounds from organic origin
- Drug delivery of simple, compound and complex therapeutic agents
- Application of nanoparticles in water filtration and purification
- Quantum particles in eradication of water found microbial population
- Bioprospecting of marine microbes
- Impact of pollutants on marine life
- Pollution of water and its regulation
- Oil spills in water and their effects
- Ecosystem of hydrothermal vents
- Aquatic microbiology
- Aquaculture and fisheries
- Marine natural products

CALL FOR ABSTRACT

Organizing Committee for the International Conference invites researchers from around the world to submit abstracts for presentation (Poster/Oral) at National Conference on “Microbial Bioprospecting towards Sustainable Development Goals” at pleasing campus of Lovely Professional University, Phagwara, Punjab, India. The Conference will feature a wide range of exciting talks, discussions, and networking opportunities with experts, researchers, and up-and-coming leaders in the field of Microbiology. This is an opportunity to share your research with colleagues who are actively aligning ethics, law, society, and policy with advances in Microbiology. Researchers of all career stages are encouraged to submit abstracts.

IMPORTANT DATES

Last Date of Abstract Submission	30 th Oct, 2023
Date of Acceptance of Abstract	5 th Nov, 2023
Early bird Registration	31 st Oct, 2023
Last date of Registration	15 th Nov, 2023
Conference	24-25 th Nov, 2023

TYPE OF PRESENTATION

Poster and Oral Presentation (Presenters can find the instruction on the conference website)

CALL FOR FULL LENGTH PAPER



*Abstract and Full Length papers to be sent at amilpu@lpu.co.in

AWARDS

- 3 awards of best oral presentation
- 3 awards of best poster presentation
- 1 Louis Pasteur Young scientist award (Details of eligibility, application format and deadlines are available at conference website)
- 1 Aditi Pant Women Scientist award (Details of eligibility, application format and deadlines are available at conference website)

REGISTRATION FEE

Categories	Participation types	Early Bird (Oct 31st, 2023)	Late (Nov 15th, 2023)	On-Spot*
AMI Members	Faculty/Post Doctors Fellows	2000	2500	3000
	Students(PhD , UG and PG)	1500	2000	2500
	Industrial employees	2000	2500	3000
Non-AMI Members	Faculty/Post Doctors Fellows	2500	3000	3500
	Students(PhD , UG and PG)	2000	2500	3500
	Industrial employees	2500	3000	3500
National Delegates (Accompanying person)		1500 (Without Kit)		
Foreign Delegates		USD 100	USD 120	USD 150
Foreign Delegates (Accompanying person)		USD 100 (Without Kit)		
		Annual Fees for AMI :INR550 Life membership Fees for AMI: INR3850		

*Registration fee include kit,certificate,working lunch and tea

* Limited number (100) on spot registration would be available

ACCOMMODATION

Accommodation for international and national delegates will be arranged in hostels and UNI hotel in the campus on request on payment basis.

KEY SPEAKERS

Prof. Nalin N. Wijayawardene
Center for Yunnan Plateau Biological
Resources Protection and Utilization,
Qujing Normal University, P. R. China

Prof. R.G.U. Jayalal
Sabaragamuwa University of Sri Lanka,
Belihuloya, Sri Lanka

Dr. Absar Ahmad
Director, Aligarh Muslim University,
Aligarh

Dr. Samir Damre
Principal Scientist, National Institute of
Oceanography, Dona Paula, Goa

Dr. Belle Damodara Shenoy
Principal Scientist, Principal Scientist
at CSIR-National Institute of
Oceanography, (Regional center,
Visakhapatnam)

Prof. Samantha Karunarathna
Center for Yunnan Plateau Biological
Resources Protection and Utilization,
Qujing Normal University, P. R. China

Dr. Girish Mahajan
Senior Vice President, HiMedia
Pvt Ltd , Navi Mumbai

Dr. Naveen Gupta
Professor, Department of Microbiology,
Punjab University, Chandigarh

Dr. Ravinder Nagpal
Florida State University , Florida

Dr. Sunil Pabbi
President Association of
Microbiologists of India, New
Delhi

Dr. Dharam Singh
Principal Scientist, Institute of
Himalayan Bioresource Technology,
Palampur

Dr. Karthik Loganathan
Project Leader, Salem Microbes Pvt
Ltd, India

Dr. Sanjay Pal
Associate Professor
Amrita Vishwa Vidyapeetham

Prof Surajit Das
NIT Rourkela, India

ADVISORY COMMITTEE(INTERNATIONAL/ NATIONAL)

Prof. Pedro W. Crous
Director, Westerdijk Fungal
Biodiversity Institute, Netherlands

**Prof. Abdel Rahman
Mohammad Al Tawaha**
Al-Hussein Bin Talal University,
Jordan

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Sabaragamuwa University of Sri
Lanka,Belihuloya, Sri Lanka

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Vishwavidyalaya, Haridwar, India

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Scientific and Government Affair,
Leader – South Asia, Dupont Nutrition
and Health Organisation, Gurgaon,
India

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University, Chandigarh, India

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Sciences , Central University of Punjab,
Bhatinda , Punjab, India

Prof. Bharat Patel
Queensland University of Technology,
Australia

Prof. Nalin N. Wijayawardene
Center for Yunnan Plateau Biological
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Qujing Normal University, P. R. China

Prof. Praveen Rishi
Past President Association of
Microbiologists of India
Punjab University, Chandigarh,
India

Prof. Namita Singh
General Secretary, Association of
Microbiologists of India, New Delhi,
India

Prof. AK Pandey
Vice Chancellor, Vikram University
University, Ujjain, India

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School of Biotechnology, Institute of
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Varanasi, India

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Prof. Naveen Kongo

Professor and Head, Department of
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Dr. Sunil Kumar Singh

Principal Scientist ICAR- Central Arid
Zone Research Institute, Jodhpur,

ORGANIZING COMMITTEE

Chief Patron	Dr. Ashok Mittal , Honourable Chancellor, Lovely Professional University
Patron(s)	Mrs. Rashmi Mittal , Worthy Pro chancellor, Lovely Professional University
General Chair	Prof Lovi Raj Gupta , Pro Vice-Chancellor, Lovely Professional University
General Co-Chair	Prof. Neeta Raj Sharma , Senior Dean, School of Bioengineering and Biosciences, Lovely Faculty of Technology and Sciences, Lovely Professional University
	Prof. Arun Karnwal , President, AMI-LPU Unit, Department of Microbiology, School of Bioengineering and Biosciences, LPU
Program Chair/ Organizing Secretary	Prof. Ashish Vyas , Professor and Head, Department of Microbiology and Biochemistry, School of Bioengineering and Biosciences Secretary cum Treasurer, AMI-LPU Unit, LPU
	Dr. Gaurav Kumar , Associate Professor, Department of Microbiology, School of Bioengineering and Biosciences, LPU
Program Co-Chair	Dr. Arvind Kumar , Associate Professor, Department of Biochemistry, Microbiology, School of Bioengineering and Biosciences,LPU
	Prof. Joginder Singh , Professor, Nagaland University, Nagaland
	Dr Loganathan Karthik , President, Society of Chemical and Synthetic Biology (SCSB), India
International Chair	Prof. Pedro W. Crous , Director, Westerdijk Fungal Biodiversity Institute, Netherlands
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	Dr Komal Agarwal , Assistant Professor, Department of Microbiology, School of Bioengineering and Biosciences,LPU
Publication Co-Chair	Dr. Gaurav Kumar , Associate Professor, Department of Microbiology, School of Bioengineering and Biosciences,LPU
	Dr. Justin Samuel , Assistant Professor, Department of Microbiology, School of Bioengineering and Biosciences,LPU
	Dr. Gurmeen Rakhra , Assistant Professor, Department of Biochemistry, School of Bioengineering and Biosciences,LPU

Registration and Finance Chair	Dr. Arvind Kumar , Associate Professor, Department of Biochemistry, School of Bioengineering and Biosciences, LPU
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	Dr. Raman Kumar , Assistant Professor, Department of Biochemistry, School of Bioengineering and Biosciences, LPU
	Dr. Sharon Nagpal , Assistant Professor, Department of Microbiology, School of Bioengineering and Biosciences, LPU
	Dr. Priyobrata Sinha , Assistant Professor, Department of Biochemistry, School of Bioengineering and Biosciences, LPU
Plenary Session Chair	Prof. Joginder Singh , Professor, Department of Microbiology, School of Bioengineering and Biosciences, LPU
	Prof. Joydeep Dutta , Professor and Head, Department of Zoology and Botany, School of Bioengineering and Biosciences, LPU
	Prof. Umesh Gautam , Professor and Head, Department of Molecular Biology and Genetic Engineering, School of Bioengineering and Biosciences, LPU
	Dr. Himanshu Singh , Associate Professor and Head, Department of Biotechnology and Bioinformatics, School of Bioengineering and Biosciences, LPU
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	Dr. Jaswinder Singh , Assistant Professor, Department of Biochemistry, School of Bioengineering and Biosciences, LPU
Hospitality Co-Chair	Dr. Hina Upadhyay , Associate Professor, School of Agriculture School of Bioengineering and Biosciences, LPU
	Ms. Karuna Agarwal , Division of Hospitality, Lovely Professional University
Media and Publicity Chair	Dr. Minhaj Ahmad Khan , Associate Professor, Department of Biochemistry, School of Bioengineering and Biosciences, LPU
	Dr. Damini Maithani , Assistant Professor, Department of Microbiology, School of Bioengineering and Biosciences, LPU
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**HOTEL ACCOMMODATION, OUTSIDE THE CAMPUS
MAY BE BOOKED DIRECTLY BY THE DELEGATE**

Payment

Visit Website of www.conferences.lpu.in for payment details or online payment only for registration in SBI Bank Account (Account Name: Treasurer AMI-LPU Unit , Acc No-507800000438353141143, IFSC Code-SBIN0050838)*

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