



# 2<sup>nd</sup> International Conference Advances and Innovations in Biotechnology for Sustainable Bioresources and Bioeconomy (AI-BSBB2023)



 22-25 November, 2023  
 Satna, (MP) 485001 INDIA

## Important Dates

01 JUNE 2023	Contributory Abstract Submission Opens
25 OCT. 2023	Contributory Abstract Submission Ends
20 OCT. 2023	Registration Closes at Normal Rate
22 NOV. 2023	Registration Closes with Late Fee

## In Association With



The Biotech Research Society  
India (BRSI)



Vigyan Bharti



The National Academy  
of Sciences  
India (NASI)-Bhopal Chapter



Centre for Energy and  
Environmental  
Sustainability-India (CEES)



Society of  
Life Sciences, India



International Bioprocessing  
Association



Microbiologists Society, India

## Organizer

Department of Biotechnology  
AKS University, Satna (MP) - 485001 INDIA



## AI-BSBB2023

AI-BSBB2023, an international conference focusing on recent developments in the frontier areas of Biotechnology, will bring together scientists, engineers, and other experts from across the world to deliver talks on recent advancements in the fields of Industrial Biotechnology, Medical Biotechnology, Environmental Biotechnology, and Food & Agriculture Biotechnology.

It is planned as a major event to be held in Satna (Madhya Pradesh), India, from November 22-25, 2023, with the participation of a large number of active researchers from across the world.

This conference will provide a common forum for researchers, practitioners, and scientists to present and discuss the most recent innovations, trends, and tactical challenges associated with Biotechnology.

## Highlights of the AI-BSBB2023

- Global platform to address the impact of Climate Change and Biotechnology Innovations in its mitigation
- International Scientific interaction on biotechnology advances and Innovations in Green Energy, Resource Recovery, Biobased circular economy, Bioprocessing and Bioprospecting to meet the Sustainable Development Goals.
- Opportunities to interact with internationally renowned scientists.
- 8 thematic scientific sessions, 100+ invited talks, oral & Poster presentations.
- International Platform to present and share your Scientific Developments.
- Awards and Certificates to young researchers in each thematic area (individually).

## THEMATIC AREAS

**EB - Energy  
Biosciences**

**MB - Microbiome**

**FAB - Food and  
Agricultural  
Biotechnology**

**IMB - Industrial  
Microbiology and  
Biotechnology**

**BCB - Bioinformatics  
and Computational  
Biology**

**MPB - Medical and  
Pharmaceutical  
Biotechnology**

**EBCC - Environment  
Biotechnology and  
Climate Change**

**NT -  
Nanobiotechnology**



2<sup>nd</sup> International Conference  
**Advances and Innovations in  
Biotechnology for Sustainable  
Bioresources and Bioeconomy  
(AI-BSBB2023)**

## **AKS UNIVERSITY SATNA**

AKS University, Satna 485001 Madhya Pradesh has been established by Government of Madhya Pradesh by an Act No.44 of 2011 of Madhya Pradesh State Legislative Assembly (Vidhan Sabha) and is recognized by University Grants Commission (UGC), a statutory body of the Government of India under 2(f) of UGC Act. The curriculum, course offering, and the Centers of Excellence at AKS University are all aimed at knowledge creation & skill development. The University is primed to fulfill its mission of developing & arming human resources with modern applied knowledge & competencies, harnessing knowledge for addressing multifarious local, regional & national challenges including creating skilled manpower to support the leapfrogging economic growth of India, enhancing engineering competitiveness through technology-development & technology-induction, enhancing agricultural productivity through Biotechnology & other innovations, environmental conservation through innovative technology & approaches.

## **About Organizing Department**

The University's Department of Biotechnology aims to offer top-quality education with an emphasis on practical learning and research opportunities. Our goal is to produce highly skilled biotechnocrats and entrepreneurs who can meet the demands of both academia and industry in the challenging fields of Microbiology and Biotechnology.

## **The Biotech Research Society, India (BRSI)**

The aim of the Biotech Research Society of India [BRSI] is to promote R&D in biotechnology, bring interaction between the academic institutes and biotech industries, interact with the industries and help them resolve their problems as well as make them aware of the new developments in the biotech sector, provide and arrange training in biotechnology, dissemination of biotech knowledge through the organization of lectures, seminars, and symposia on scientific programs and social missions

### CONFERENCE CHAIR



**Prof. Ashok Pandey**  
CSIR-IITR,  
Lucknow, India

### INTERNATIONAL CHAIRS



**Prof. Samir Khanal**  
General Secretary - IBA  
University of Hawaii, Honolulu, USA



**Prof. Mohammad Taherzadeh**  
University of Boras, Boras  
Sweden





2<sup>nd</sup> International Conference  
**Advances and Innovations in  
Biotechnology for Sustainable  
Bioresources and Bioeconomy  
(AI-BSBB2023)**

# Organizing Committee

## Chief Patron



**B. P. Soni**  
Chancellor  
AKS University, Satna

## Patron



**Anant Kumar Soni**  
Pro Chancellor  
AKS University, Satna



**Prof. B. A. Chopade**  
Vice Chancellor  
AKS University, Satna



**Dr. R. S. Tripathi**  
Pro Vice Chancellor  
AKS University, Satna



**Dr. Harshwardhan**  
Pro Vice Chancellor  
AKS University, Satna

## Co-Patron



**Prof. G.P. Richariya**  
Dean FLST  
AKS University, Satna



**Prof. Ashok Pandey**  
CSIR-IITR,  
Lucknow, India

## International Chair



**Prof. Samir Khanal**  
General Secretary - IBA  
University of Hawaii,  
Honolulu, USA



**Prof. Mohammad Taherzadeh**  
University of Boras, Boras, Sweden  
International Chair

## Conference Convener



**Prof. Kamlesh Choure**  
Department of Biotechnology  
AKS University, Satna

## Co-Convener



**Dr. P. Binod**  
Central Office Executive  
BRSI Principal Scientist  
CSIR-National Institute for  
Interdisciplinary Science and  
Technology, Trivandrum, India



**Prof. Shivesh Pratap Singh**  
Govt. Post Graduate  
College Satna



**Dr. Abhishek Singh**  
AKS University, Satna  
Member, Vigyan Bharti



**Dr. V. Vivakanand**  
MNIT, Jaipur



**Dr. Ashutosh Pandey**  
Department of Biotechnology  
AKS University, Satna







# International Speakers



**A. A. Koutinas**  
University of Patras  
Greece



**Byong-Hun Jeon**  
Hanyang University  
South Korea



**Cristobal Aguilar**  
Hod Science and Biotechnology,  
DIA-UAdeC. Research Group of  
Bioprocesses & Bio Products  
Mexico



**Eldon Raj Rene**  
IHE Delft Institute  
for Water Education  
Netherlands



**EM Papamichael**  
University of Ioannina  
Greece



**Grzegorz Piechota**  
Laboratory of Biogas  
Research & Analysis  
Poland



**Gopalakrishnan Kumar**  
University of Stavanger (UiS),  
Stavanger, Norway  
Norway



**Ganesh D. Saratale**  
Dongguk University  
South Korea



**Helena Khatoun**  
Chattogram Veterinary  
and Animal Sciences University  
Bangladesh



**Hector Ruiz**  
Autonomous University  
of Coahuila  
Mexico



**Josef Marousek**  
The Institute of Technology and  
Businesses in České Budějovice  
Czech Republic



**José Luis  
Martínez-Hernández**  
Autonomous University  
of Coahuila  
Mexico



**José Sandoval-Cortés**  
Autonomous University  
of Coahuila  
Mexico



**Maria Kanellaki**  
University of Patras  
Greece



2<sup>nd</sup> International Conference  
**Advances and Innovations in  
Biotechnology for Sustainable  
Bioresources and Bioeconomy**  
(AI-BSBB2023)

# International Speakers



**Mohammad Taherzadeh**  
University of Boras  
**Sweden**



**Mayur B. Kurade**  
Hanyang University  
**South Korea**



**Mukesh Kumar Awasthi**  
College of Natural Resources and  
Environment, Northwest  
A&F University  
**China**



**Poonam Singh Nigam**  
Ulster University,  
Northern Ireland  
**United Kingdom**



**Rajesh K. Sani**  
South Dakota School of  
Mines and Technology  
**USA**



**Rui Oliveira**  
Universidade Nova de Lisboa  
**Portugal**



**Reeta Rani Singhania**  
National Kaohsiung University  
for Science and Technology  
**Taiwan**



**Renu Wadhwa**  
National Institute of  
Advanced Industrial Science  
and Technology  
**Japan**



**Samir Khanal**  
University of Hawatt  
at Manoa  
**USA**



**Sunil Kaul**  
National Institute of Advanced  
Industrial Science & Technology  
(AIST)  
**Japan**



**Yen Wah Tong**  
National University  
of Singapore  
**Singapore**



**Yoshiro Ohmiya**  
National Institute of Advanced  
Industrial Science and  
Technology (AIST)  
**Japan**

and many more...



2<sup>nd</sup> International Conference  
**Advances and Innovations in  
Biotechnology for Sustainable  
Bioresources and Bioeconomy**  
(AI-BSBB2023)

# Indian Speakers



## Abhishek Dhoble

Indian Institute of  
Technology (BHU) Varanasi,  
Uttar Pradesh  
**India**



## Ashish N. Sawarkar

Motilal Nehru National  
Institute of Technology Prayagraj  
**India**



## Aravind Madhavan

Amrita Vishwa  
Vidyapeetham University, Kerala  
**India**



## Aradhana Mishra

National Botanical  
Research Institute  
**India**



## Ayon Tarafdar

ICAR-Indian Veterinary  
Research Institute  
**India**



## Anil Prakash

Barkatullah University,  
Bhopal  
**India**



## Archana Tiwari

Amity University,  
Noida  
**India**



## Amit Kumar Rai

Institute of Bioresources  
and Sustainable  
Development, Sikkim Centre,  
Tadong - Gangtok, Sikkim  
**India**



## Bhuwan Mishra

Center of Innovative  
& Applied Bio Processing  
**India**



## Bunushree Behera

Thapar Institute of Engineering  
and Technology, Patiala (PB)  
**India**



## C.P. Upadhyay

Dr. Hari Singh Gour  
Central University, Sagar  
**India**



## Dharmendra Tripathi

National Institute of  
Technology Uttarakhand  
**India**



## Deepa Subramanyam

National Centre for Cell Science,  
SP Pune University,  
Ganeshkhind, Pune  
**India**



## Jaspreet K. Dhanjal

Indraprastha Institute  
for Information  
Technology (IIIT), Delhi  
**India**





2<sup>nd</sup> International Conference  
**Advances and Innovations in  
Biotechnology for Sustainable  
Bioresources and Bioeconomy**  
(AI-BSBB2023)

# Indian Speakers



**Jitendra Thakur**  
ICGEB, New Delhi  
**India**



**K. Satyamoorthy**  
SDM University,  
Karnataka  
**India**



**K. K. Dubey**  
Jawaharlal Nehru  
University, New Delhi  
**India**



**Kshirod K. Jena**  
School of Biotechnology,  
KIIT Deemed to be University,  
Bhubaneswar - Odisha  
**India**



**Manish S. Rajput**  
Dr. Ambedkar Institute  
of Technology  
for Handicapped, Kanpur (UP)  
**India**



**Manish Kumar**  
CSIR-NEERI, Nagpur  
**India**



**Mukund Bodhankar**  
APT Research Foundation  
**India**



**M. S. Shejul**  
Symbiosis International  
(Deemed University)  
**India**



**Meenu Chabra**  
IIT, Jodhpur  
**India**



**Naveen Kango**  
Dr. Hari Singh Gour  
Central University, Sagar  
**India**



**Nibedita Lenka**  
National Centre for  
Cell Sciences (NCCS), Pune  
**India**



**Nidhi Pareek**  
Central University  
of Rajasthan  
**India**



**N.K. Singh**  
Motilal Nehru National  
Institute of Technology  
Allahabad, Prayagraj, India  
**India**



**P C Abhilash**  
Institute of Environment &  
Sustainable Development (IESD),  
Banaras Hindu University,  
Varanasi (UP)  
**India**



2<sup>nd</sup> International Conference  
**Advances and Innovations in  
Biotechnology for Sustainable  
Bioresources and Bioeconomy**  
(AI-BSBB2023)

# Indian Speakers



**Piyush Pandey**

Assam University  
India



**P.S. Bisen**

Jiwaji University,  
Gwalior, India  
India



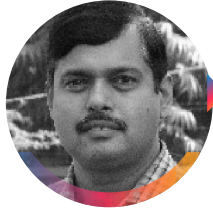
**Pradeep K. Shukla**

SHUATS, Prayagraj  
India



**Pratyoosh Shukla**

Banaras Hindu University,  
Varanasi, (UP)  
India



**Puneet S. Chauhan**

CSIR-National Botanical  
Research Institute, Lucknow,  
Uttar Pradesh  
India



**Prabhanshu Tripathi**

CSIR-IITR, Lucknow  
India



**Praveen K. Ramanujam**

Biotechnology & Chemical  
Engineering,  
Arunai Engineering College  
India



**Preeti C. Bhargava**

CSIR-Indian Institute of  
Toxicology  
Research, Lucknow (UP)  
India



**Pradyumna K. Mishra**

ICMR-National Institute for  
Research in Environmental Health,  
Bhopal, Madhya Pradesh  
India



**Pavan Jutur**

International Centre for Genetic  
Engineering and Biotechnology  
(ICGEB), New Delhi  
India



**Ramakrishna Wusirika**

Central University  
of Punjab Bathinda  
India



**Ragini Gothwal**

Department of Biotechnology,  
Barkatullah University, Bhopal  
India



**Ranjana Sirohi**

University of Petroleum  
& Energy Studies  
India



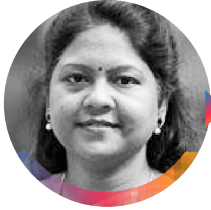
**S.K. Dubey**

Banaras Hindu  
University, Varanasi  
India



2<sup>nd</sup> International Conference  
**Advances and Innovations in  
Biotechnology for Sustainable  
Bioresources and Bioeconomy**  
(AI-BSBB2023)

# Indian Speakers



**Sanjukta Subudhi**  
The Energy and Resources  
Institute (TERI), New Delhi  
**India**



**Sunil Khare**  
Indian Institute  
of Technology, New Delhi  
**India**



**Sudhir P Singh**  
Center of Innovative and  
Applied Bioprocessing  
(CIAB), Mohali  
**India**



**Sindhu Raveendran**  
TKM Institute of  
Technology, Kerala  
**India**



**Sudheer Kumar Singh**  
CSIR-Central Drug Research  
Institute (CDRI), Lucknow (UP)  
**India**



**Thallada Bhaskar**  
CSIR-Indian Institute  
of Petroleum  
**India**



**Vishal Mishra**  
Department of Biochemical  
Engineering  
IIT (BHU), Varanasi (UP)  
**India**



**Vinod Garg**  
Central University of Punjab  
**India**



**Vinod Kumar**  
CSIR – Indian Institute  
of Integrative, Jammu  
**India**



**Vivekanand**  
Malaviya National  
Institute of Technology  
Jaipur  
**India**

and many more...





## Paper Submissions

### Conference participation and submission of abstracts

Conference participation and submission of abstracts are open for those who are involved in Biotech R&D, teaching, planning, business, etc. from across the world. Plenary and invited talks will be delivered by the experts. Participants are invited to contribute research papers excluding reviews to be presented as short oral or posters.

### Abstracts Book and Proceedings

Abstracts of the plenary and invited lectures and of contributory presentations will be published.

### Full paper publications in special issues of Journals

Works presented in the conference will be eligible to submit to the special issues of the selected journals, which will be reviewed following the standard peer review process of the journal. Mere acceptance of the abstract in the conference will not qualify the manuscript for publication in these journals. Each registered delegate will be eligible to submit one manuscript to the journal of his/her choice. The selection of the journal should be made on the abstract submission form.

## Abstracts

### Abstracts – Preparation and Submission

We invite you to submit the abstracts of original research works for presentation as short oral or poster. The abstract must be submitted by the Presenting author who will be informed about its acceptance after evaluation. While abstract submission does not require registration to the conference, presentation of paper at the conference and submission of full manuscript to the AI-BSBB2023 special issues of journals require that the presenting author must register for the conference by paying the applicable registration fee.

## Full Papers

Selected research papers presented in the AI-BSBB2023 may be published in special issues of, Bioresource Technology Reports, Bioengineered, and Indian Journal of Experimental Biology. Acceptance of abstracts in the conference does not imply that your manuscript will be published in the special issue. Submission of full manuscripts accepted in the conference has to be made online/or through email (in the case of JEES) to respective editor of the journals. Authors would be provided a reference number which they have to indicate in the covering letter while submitting the manuscript. Paper submissions to the journal from the manuscripts accepted for conference, shall commence on 1 January 2024 and the submissions shall close on 31 January 2024. Authors have to specify " VSI : AI-BSBB2023 " while selecting the submission class in BITE and Bioresour. Technol. Reports. This will be available for selection at the journals' electronic submission portal at a later date. All manuscripts submitted to the special issue will go through the normal review process of the journal, and only those which are accepted after peer review will be published. The manuscripts have to be prepared strictly following the guidelines of the journal, failing which they would be rejected.



2<sup>nd</sup> International Conference  
**Advances and Innovations in  
Biotechnology for Sustainable  
Bioresources and Bioeconomy  
(AI-BSBB2023)**

## Posters

### Preparation of posters

The space available for each poster would be of 90cm width and 100cm height. Each poster will be allocated a number, which will be marked on the top of the poster board by the organizers. The poster should indicate its title, authors (underline the name of the presenting author and include his/her email id) and their affiliations, followed by the Introduction/Background, Results, Conclusions and Acknowledgements (if any). The poster should be put up in the morning between 08.00-09.00 h and taken down after 17.00 h on the same day. The poster sessions shall be conducted on 23<sup>rd</sup> and 24<sup>th</sup> November 2023 day during 13.00-15.00 h, when evaluators shall visit the posters. The presenting authors should be present near their posters during the poster session. The poster schedule will be announced in advance and this would be based on subject areas. No request for change of session for a poster shall be entertained as these are assigned based on subject areas and juries are different for different subject areas.

## Awards

### Rapid Oral Presentation :

Young Researchers Rapid Oral Presentation & Posters: Rapid oral presentations (only for PhD Scholars) will be organized during the conference to present their creative and innovative attributes in research in FIVE minutes (maximum six slides). The best presentations as judged by a team of experts will be awarded Dr RPS Dhakrey Memorial Young Researcher Award and CEES Research Excellence Award. Exceeding the presentation time or number of slides will result in negative marking.

### Poster Presentation :

Poster presentations will be organized during the conference to present posters by the contributory participants and effective talk with the experts. The dimensions of the posters should not exceed to 90 x100 cm (w x l). These will be evaluated by a team of experts and best posters will be given award.

<< Names of awards winners will be declared in the closing session of the conference on 25<sup>th</sup> November 2023.>>

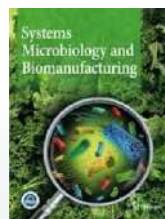
## Submissions for papers presented in AIBSBB-2023 will be open for all the journals listed below:



Energy & Environment  
(Sage Publications)



Bioresource  
Technology Reports  
(Elsevier)



System MicroB & BioM  
(Springer Nature)



Indian Journal of  
Experimental Biology  
(NISCAIR)



Journal of Innovation  
in Applied Research  
(AKS University)



## Registration Details

	Early Birds (20 <sup>th</sup> October 2023)	Late Registration (21 <sup>st</sup> Oct-22 <sup>th</sup> Nov 2023)
<b>A</b>	<b>BRSI Members</b>	
Delegates	INR 4500*	INR 6000*
Scholars	INR 3500*	INR 4000*
Accompanying person	INR 2000*	INR 2500*
<b>B</b>	<b>Non BRSI Members</b>	
Delegates	INR 5500*	INR 6500*
Scholars	INR 4500*	INR 5000*
Accompanying person	INR 2000*	INR 2500*
Student UG/PG (AKS University)	INR 3000*	INR 3500*
Student UG/PG (Others)	INR 3500*	INR 4000*
<b>C</b>	<b>International Delegates</b>	
Delegates	USD 250	USD 300
Students/Scholars	USD 150	USD 200
International Delegates	USD 100	USD 100

### Fee Details :

- Above fee includes : Scientific sessions, Breakfast, Lunch, Dinner, High tea, Conference kit & Cultural programs.
- Workshop Fee Details : INR 500





2<sup>nd</sup> International Conference  
**Advances and Innovations in  
Biotechnology for Sustainable  
Bioresources and Bioeconomy  
(AI-BSBB2023)**

# Internal Coordination Team

## **Technical Program Team**

Prof. Ashwini A. Wao, Coordinator  
Dr. Kamlesh Soni, Coordinator  
Dr. M.K. Tiwari  
Prof. Deepak Mishra  
Mrs. Maahi Choure  
Mr. Arpit Srivastava  
Mr. Virendra Pandey  
Ms. Monika Soni

## **Registration Team**

Mr. Arpit Srivastava, Coordinator  
Mr. Dheerendra Mishra  
Mr. Santosh Shrivastava  
Mrs. Priya Dwivedi  
Mr. Ekalakurrhaman

## **Media and Designing Team**

Mr. Vivek Agnihotri, Coordinator  
Mr. Arpit Srivastava  
Mr. Piyush Kant Rai  
Mr. Amaan Khan  
Mr. Satyabhushan Singh

## **Travel and Accommodation Team**

Mr. Parash Kose, Coordinator  
Mr. Piyush Kant Rai  
Mr. Vivek Agnihotri  
Mr. Saket Sharma  
Mr. Akhtar Ali  
Mr. Sheelendra Upadhyay

## **Cultural & Stage Management Team**

Prof. Deepak Mishra, Coordinator  
Mrs. Keerti Samdariya  
Mr. Shivam Pandey

## **Technical and Administration Support**

Mr. S.K. Soni  
Mr. Brajendra Soni

## **Food & Hospitality Team**

Mrs. Keerti Samdariya, Coordinator  
Mrs. Shaily Mishra  
Mrs. Suman Patel  
Mr. Bhoopendra Singh  
Mr. Laxman Soni







2<sup>nd</sup> International Conference  
**Advances and Innovations in  
Biotechnology for Sustainable  
Bioresources and Bioeconomy**  
(AI-BSBB2023)

## ATTRACTION AS A TOURIST

# *The World of Tiger*

Welcome to the Biodiversity Land



## *Discover the Mystical land of Khajuraho*

(UNESCO World Heritage Site)







2<sup>nd</sup> International Conference  
**Advances and Innovations in  
Biotechnology for Sustainable  
Bioresources and Bioeconomy  
(AI-BSBB2023)**

## Important Dates

<b>01</b> JUNE 2023	Contributory Abstract Submission Opens
<b>25</b> OCT. 2023	Contributory Abstract Submission Ends
<b>20</b> OCT. 2023	Registration Closes at Normal Rate
<b>22</b> NOV. 2023	Registration Closes with Late Fee

### Contact Conference Secretariat

Prof. Kamlesh Choure (Convener)  
AI-BSBB2023 International Conference  
kamleshchoure@aksuniversity.ac.in

Arpit Srivastava

Mob : +91- 9098782860

Vivek Agnihotri

Mob : +91- 9302812369

✉ aibsbb2023@aksuniversity.ac.in  
aibsbb2023@aksuniversity.com

### Organizer

Department of Biotechnology  
AKS University, Satna (MP) - 485001 INDIA

Scan for Registration  
& more details



### Conference Website

🌐 [aibsbb2023.aksuniversity.ac.in](http://aibsbb2023.aksuniversity.ac.in)

