

## THE CONFERENCE

Excessive application of chemical fertilizers lead to several environmental hazards, causing damages to human, animal and ecosystem health. Their chemical remnants in both aqueous and non-aqueous (soil ecosystems) environments could potentially interrupt natural ecosystem balance which consequently results in several critical health issues and numerous side-effects to agricultural productivity in agro-ecosystems. Such environmental, agricultural and health crisis call us for serious attention toward the production and application of environment friendly bio-fertilizers. Plant growth promoting rhizobacteria lodging around or in the plant roots have several functional activities such as increasing the nutrient availability to plants (biofertilizers), promoting plant growth via phytohormones as plant growth regulators (phytostimulators), degrading organic pollutants like xenobiotic compounds (rhizoremediators), controlling plant diseases and protecting them from phytopathogens (biopesticides), improving soil structure and fertility (bioremediators). As PGPR technology is currently experiencing a dramatic increase, it has become a vital element of the interactions between PGPR and crops and is considered a key input for sustainable agriculture. This focused event pays tribute to the growing significance of biofertilizers, biofungicides, biostimulants, and bioinoculants. For this reason APTBAE-2020 is being virtually organized by Barkatullah University at Bhopal, Madhya Pradesh, India. The outputs would form a strong foundation for addressing the issues of global and regional food security.

## IMPORTANT DATES:

Abstract Submission close 15/04/2021  
Acceptance notification 30/05/2021  
Full paper submission 15/08/2021  
Registration till 30/06/2021

Conference website: <http://www.microbiologybu.com>

**BARKATULLAH UNIVERSITY, BHOPAL:** Barkatullah University, formerly known as Bhopal University, was established in 1970 and rechristened in 1988 as Barkatullah Vishwavidyalaya.

**DEPARTMENT OF MICROBIOLOGY:** The Deptt. of Microbiology was established in the year 1981-1982. The Department offers two year M.Sc. and Ph. D. research program in Microbiology. The Department has been extensively engaged on identification and characterization of economically important microbes and their application on agricultural field. The department is also working on plant microbe interaction to improve plant growth to support sustainable agriculture. Several research projects funded by MPCST, CSIR, UGC, DST and DBT are ongoing in the department.



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# Virtual 6th Asian PGPR National Conference



## On Advances in PGPR Technology for Betterment of Agriculture and Environment (APTBAE - 2021)

September 3-4, 2021



Organized by  
Department of Microbiology,  
Barkatullah University, Bhopal, India

In association with



Asian PGPR Society for Sustainable Agriculture  
(APSSA), APSSA- India Chapter  
Indian Council of Agricultural Research (ICAR),  
Indian Phytopathological Society (IPS)  
Microbiologist Society India (MSI) &  
M. P. Council for Science & Technology (MPCST)

## INVITATION

Greetings from the India Chapter of Asian PGPR Society for Sustainable Agriculture. We are glad to announce the virtual 6<sup>th</sup> National Asian PGPR Conference on Advances in PGPR Technology for Betterment of Agriculture and Environment (APTBAE-2021), to be held virtually at Barkatullah University, Bhopal, Madhya Pradesh, India, from September 3-4, 2021. The Conference is being organized by the Department of Microbiology, Barkatullah University in Association with Asian PGPR Society for Sustainable Agriculture (APSSA), The India Chapter of Asian PGPR Society, Indian Council of Agriculture Research (ICAR), Indian Phytopathological Society (IPS), Microbiologists Society of India (MSI) and M.P. Council for Science and Technology (MPCST), under able coordination of enthusiastic academicians and advisory board members.

### ASIAN PGPR SOCIETY FOR SUSTAINABLE AGRICULTURE (APSSA) <http://asianpgpr.com>

The Asian PGPR Society is a non-profit scientific society established in 2009 to enable scientists, researchers, academicians, government groups, students, farmers, and industry personnel etc. from various agricultural disciplines to share and discuss their common interests in teaching, research, and commercialization of PGPRs. Asian PGPR Society has more than 1500 registered life members from around the globe and is still growing. The Asian PGPR Society organizes International Conferences every two years. Over the years, APSSA has organized six International Conferences in the countries includes, India (2009), China (2011), Philippines (2013), Vietnam (2015), Indonesia (2017) and Uzbekistan (2019) with a grand success. APSSA has established its chapters in India, Pakistan, Indonesia, Malaysia, Uzbekistan and Sri Lanka.

### INDIA CHAPTER OF ASIAN PGPR SOCIETY

As an ongoing effort of promoting PGPR and its related products and services, the India Chapter of Asian PGPR Society has organized five National conferences in the states of India includes Baroda, Varanasi, New Delhi, Mizoram and Guntur with great success. Continuing its tradition of organizing Conferences in India, the virtual 6th Asian PGPR National Conference is going to be held from 3-4 September 2021 at Barkatullah University, Bhopal, MP, India.

### CONFERENCE THEMES

The conference focuses on following themes; however, any other subjects relevant to the sustainability of agriculture and Environment are welcome.

**Theme I - PGPR and other microbes for plant growth support** : Increased nutrient availability, breakdown of complex carbohydrates, nutrient cycling and plant growth support. Production of plant growth promoting enzymes, siderophores and other biomolecules.

**Theme II - PGPR and other microbes that confer disease control** : Suppression of bacterial, fungal, viral, nematode infections.

**Theme III - PGPR and other microbes for stress tolerance** : Biotic and abiotic stress tolerance.

Mechanisms and molecular communication of PGPR.

**Theme IV - PGPR and other microbe based technologies for crop improvement**

Formulations, delivery, packaging, shelf-life, efficacy etc. Successful case studies of PGPR. Technology transfer and regulatory issues.

MOU's and funding opportunities

**THEME V - IPR, Patents and Commercialization aspects of PGPR and allied technology**

PGPR formulations, Pure culture vs. Consortium debate  
PGPR as bio-stimulants

### CALL for APSSA ANNUAL AWARDS

- ▶ National PGPR Life time achievement
- ▶ National Asian PGPR Fellow
- ▶ National PGPR Young Scientist
- ▶ National Best PGPR Researcher
- ▶ Outstanding contributions to Indian Chapter of APSSA
- ▶ Best Women PGPR Scientist
- ▶ Best PGPR Scientific publication
- ▶ Best Oral Presentation
- ▶ Best Poster Presentation
- ▶ Best Rangoli award
- ▶ Quiz prizes

Note: Please see the guidelines & application/ nomination form at <http://www.microbiologybu.com>

### GUIDELINE FOR ABSTRACTS SUBMISSION

All the abstracts must be submitted electronically using the link provided on the APTBAE-2021 conference website. Abstracts submitted through e-mail or fax will neither be accepted nor acknowledged.

- ▶ Abstracts must be written clearly in English and submitted on or before April 15, 2021.
- ▶ Abstracts should be based on any of the areas as listed under conference themes.
- ▶ Abstracts must report the results of original research or other activity of significant merit related to PGPR and its allied fields.
- ▶ Abstracts should not exceed more than 300 words. It must be typed in Times New Roman, font 12", 1.5 spacing and submitted as word document with no grammatical, typographical, or factual errors. Title of abstract followed by full names (without using titles such as Mr./Mrs./Ms./Dr. etc.) of author(s) along with the address of the affiliated institute should be mentioned. In case of two or more authors the presenting author should mark with an asterisk(\*) and his/her e-mail should be mentioned. A maximum of 5 keywords should be provided.
- ▶ Abstract must include - Introduction, Objectives, Methods, Results, and Conclusion/Significance of the research.
- ▶ Only selected abstracts would be invited for oral presentation and submission of full length paper for publication in proceedings.

### GUIDELINES FOR POSTER PRESENTATION

All e-posters to be set in portrait style (width 20 in, Height 35 in) in PDF format (10Mb). Check the conference website for sample poster instructions.

**GUIDELINES FOR RANGOLI AND QUIZ COMPETITIONS** (for M.Sc. Students) Students have to online explain rangoli and check quiz rules on conference websites.

## REGISTRATION FEES

CATEGORIES	Registration (on/before June 30,2021)
Corporate delegates*	500 INR
General delegates	250 INR
Life members of Society	200 INR
Students** (M.Sc./Ph.D.)	150 INR

\*Corporate rate applies to all participants from profit enterprises, regardless of country of origin

\*\*Students are required to present their student identification card during registration. Please upload identity proof of their student status in registration form

## REGISTRATION

All participants of the virtual 6th Asian PGPR National Conference 2021 are required to register officially. It is important to read all the information on our website before you commence the registration process.

### Bank Details for Making Payment of Registration Fees

Account Title : Asian PGPR Society for Sustainable Agriculture  
Account Number : 090810200001830  
Name of the Bank : IDBI Bank limited  
Branch : 908  
IFSC code : IBKL0000908

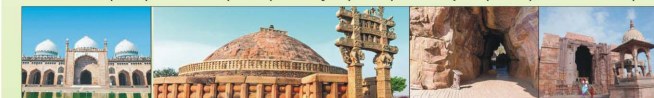
## ABOUT BHOPAL

Bhopal is well connected by road, rail and air. Bhopal railway station is a major railway junction located on the Main Delhi Chennai route. and almost every train stops at Bhopal. The Bhopal railway station is 18 Km away from the venue. Another junction is Habibganj railway station at a distance of 3 Km from the Barkatullah University. Bhopal Airport well known as Raja Bhoj Airport is a domestic as well as international airport, connected with all the major cities of India. The railway stations, bus stand and airport are very well supported by local transport, buses, auto rickshaws, OLA-UBER hired taxies.

## TOURIST PLACES IN AND AROUND BHOPAL



Birla Mandir (9 km) Van Vihar (16 km) Bhojtal (22 km) Sair sapata (12 km) Sadar Manzil(13 km)



Birla Mandir (9 km) Sanchi (58 km) Bheem Betka (37 km) Bhojpur (13 km)

### Communication Hub For Sponsorship

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