

4th National Conference

On
*Plant Growth- Promoting Rhizobacteria (PGPR) for
Sustainability of Agriculture and Environment*

(May 11 & May12, 2018)



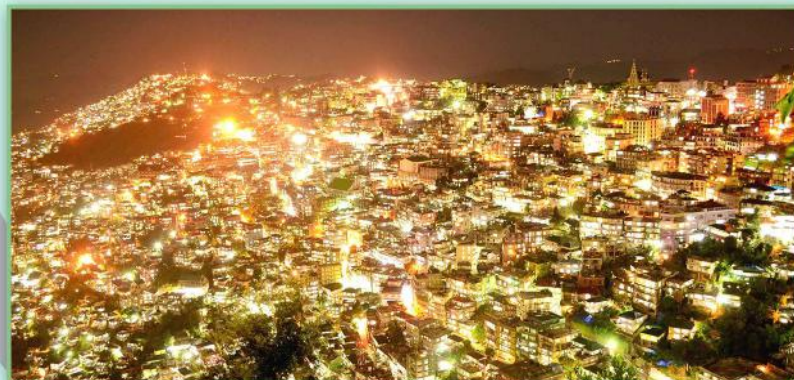
Organized by



Department of Biotechnology
Mizoram University, Mizoram



India Chapter of Asian PGPR Society
for Sustainable Agriculture



In association with



Asian PGPR Society for
Sustainable Agriculture



Venue:

Mizoram University Auditorium
Mizoram University, Aizawl
Mizoram-796004, India

About the Conference

It is our great pleasure to announce the National Conference on “PGPR For Sustainability of Agriculture and Environment” to be held in Aizawl, Mizoram on 11-12 May, 2018 organized by Department of Biotechnology, Mizoram University in association with India Chapter of Asian PGPR Society for Sustainable Agriculture and Asian PGPR society. The conference is aimed to gathered scientists, researchers, academicians, students, farmers, and industry personnel from various agricultural disciplines and discusses their common interests in teaching, research and commercialization of PGPR's in India.

PGPR's are Plant Growth Promoting Rhizobacteria defined as root-colonizing bacteria that exert beneficial traits on plant growth and development. Root colonization comprises the ability of PGPR to establish on or in the root or rhizosphere to multiply, survive and colonize along the growing root in the presence of the indigenous microflora. PGPR are considered as effective plant growth promoters in various crops. In addition to plant growth promotion, PGPR are also used for controlling several plant pathogens, enhancement of nutrient up-take and in rhizomediation. PGPR colonize plant roots and exert beneficial effects on plant growth and development by a wide variety of mechanisms. To be an effective PGPR, bacteria must be able to colonize roots because bacteria need to establish itself in the rhizosphere at population densities sufficient to produce the beneficial effects.

In the context of increasing international concern for food and environmental quality, the use of PGPR for reducing chemical inputs in agriculture is a potentially important issue. PGPR have gained world-wide importance and acceptance for sustainable agricultural benefits. PGPR's are the potential tools for future of sustainable agriculture. The application and commercialization of PGPR for sustainable agriculture is a growing and demanding market world-wide.

We hope that the conference will enable you to share your knowledge with an national research community and to connect in discussion about the current issues in the field of PGPR. Our organizing committee aims to keep the level of the presentations as high as possible so that it can stimulate discussion on all the aspects of our technical themes which can be developed into a positive intellectual experience for all the participants. Moreover, this Conference would be a good platform for the interaction among the delegates from different parts of India to show their novel scientific discoveries. The conference will comprise plenary lectures, invited lectures and contributed presentations (Oral/Posters).

About Mizoram University

Mizoram University (Accredited with 'A' Grade by NAAC) was established on 2nd July 2001 as a Central University. The objectives of the University is "to disseminate and advance knowledge by providing instructional and research facilities in branches of learning as it may deem fit, to make provisions for integrated courses in humanities, natural and physical & social sciences, forestry and other allied disciplines in the educational programmes of the University; to take appropriate measures for promoting innovations in teaching-disciplinary studies and research; to educate and train man-power in the development of the state of Mizoram; and to pay special attention to the improvement of the social and economic conditions and welfare of the people of the State, their intellectual, academic and cultural development".

The Department of Biotechnology was established in the year 2007. The department offers a two year M. Sc., Degree Course in Biotechnology. M. Phil and Ph.D. programmes. The Department is undertaking research projects and has attracted funds from various agencies such as DBT, DST, CSIR and UGC. The Bioinformatics Infrastructure Facility (BIF) and Advanced level state Biotech Hub facilities were established by the DBT, Government of India in the year 2008 and the facility is housed in the Department.

About Mizoram – A Mega Diversity Hotspot

Mizoram falls under the 'Eastern Himalayas' & Aizawl is the state capital. It is situated at an altitude of 900 meters above sea level. The importance of this region at the global stage can be vouched from the fact that the region lies within the Indo-Burma mega diversity hotspot. The total area of Mizoram is 21,087 km², the majority of it being forest cover. Temperature varies from 18 to 29°C in summer and from 11 to 24°C in winter. Aizawl is a beautiful and enjoyable city with the unique natural beauties and we hope that the conference will serve to meet a variety of ideas to be discussed.

If you have problems, please do not hesitate to contact us by phone or email. We have great pleasure and glad look forward to pay attention to your questions very promptly.

Dr. Bhim Pratap Singh (bhimpratap@gmail.com)

Mob : 9436353807; 8794343946

Dr. Riyaz Sayyed (sayyedrz@gmail.com)

Mob : 9673578286; 7841048078

Conference Themes

1. PGPR & other microbial strains (Rhizobium, fungi, nematodes, actinobacteria etc.) and their use in sustainable agriculture and environment.
2. PGPR as biopesticides, biofertilizers, bioherbicides, bioinsecticides, and bionematicides.
3. Integrating genomics, Transcriptomics and metabolomics to assess the intrinsic potential of PGPR for biocontrol.
4. PGPR in the management of biotic & abiotic factors modulating for the production of biocontrol metabolites.
5. Mechanisms of PGPR and their molecular communication.
6. Crop Improvement: Conventional to Molecular approaches using Microbes.
7. Development of formulations, delivery and packaging for sustainable agriculture
8. Endophytes: Discover new metabolites and mechanisms involved in PGPR-mediated plant protection.
9. Scope for collaborations, exchange of memorandum of understanding (MOU), training and seeking funding agencies.
10. Commercial success stories of PGPR, transfer of technology & regulatory issues – industry and farmers perspective.

Awards for Best Presentation

- 1) Best oral presentation awards
- 2) Best poster presentation awards

Conference proceedings

All selected research papers presented by eminent scientists after peer review will be published in the UGC approved **Journal of Microbiology and Biomedical Research (ISSN: 2395-5678)**, a peer review quaternary published open access journal dedicated to publishing original Research Article/Review Article/Short Communication/Case Studies/Letters in different branches of Microbiology and Biomedical research. Correspondence relating to subscription and business matters concerning the Journal should be addressed to the Dr. Bhim Pratap Singh, Chief Editor, Journal of Microbiology and Biomedical Research, Mizoram University, Aizawl, Mizoram-796004, India. Email: editor@microbiozjournals.com or support@microbiozindia.com or microbiozindia@gmail.com or bhimpratap@gmail.com.

Registration Form

Title:	Full Name:
Designation:	Department:
Organization/Institute:	
Address:	
State/City:	Country:
Mobile No: +91	Phone No:
Email ID:	
Tentative Title of Paper:	
Accompanying persons (if any)	
Regd: Fee Details: Cash/DD/NEFT:	
Date	Name of Bank:

Registration fee

Category	Early Bird Registration (15 th March 2018 to 15 th Apr 2018)	On Spot
Faculty /Scientist	₹ 2000	₹ 2500
Students/Research Scholars	₹ 1000	₹ 1200
North East (Students/Research Scholars)	₹ 500	₹ 600
Corporate sectors and Industries	₹ 10000	₹ 12000

Important Dates

Remittance of Early Bird Registration Fee	15 th March 2018
Start of submission of Abstracts/Invited Papers:	20 th March 2018
Submission deadline	10 th April 2018
Notification of Acceptance	15 th April 2018

Registration fees can be paid through Cash/DD/bank transfer in favour of **PGPRAE 2018, Payable at Mizoram (Bank details: Account number: 1548050001847; United Bank of India; Branch: Mizoram University; IFSC Code: UTBI0MZUH61)**

Call for Papers

Based on the organizing committee's review, the contributed papers will be selected for poster/oral presentation. This would provide an opportunity to the participants to present their work in a more informal manner with a personalized interaction with a chance to meet researchers.

Abstract: The titles of the paper should be in Font Size 12, bold and centered followed by Authors names, Address, email. The presenting author name should be underlined and Corresponding author name should be marked with asterisk. An abstract containing 300 words for oral and poster presentation should to be submitted to the Scientific Committee by E-mail: bhimpratap@gmail.com before 20th April, 2018. Please indicate the theme(S) for which the abstract should be considered.

➤ **Poster Preparation Guideline**

- Posters should be of 3feet (W) X 4 feet (L).
- The title, presenting author, corresponding author, address and contact information of the corresponding author must be mentioned
- The text and figures should be clearly visible from a distance of 2-3 meters

➤ **Oral Presentation Guideline**

- Oral presentation should be made preferably by power point mode within 20 slides including introduction and references
- Each oral presentation is limited to 7 minutes followed by 3 minutes discussion.

Full length papers are invited to publish in Proceedings. They should contain Title, Authors, Address, email, Abstract, Introduction, Material & Methods, Results and Discussion, Acknowledgements and References.

Travel Information - How to reach Aizawl

AIR: Lengpui airport is approx. 40 kms from Aizawl city and is connected by direct flights from Kolkata and Guwahati.

ROAD: Aizawl is connected by NH 54. Buses (Network and capital service) and Maxi cabs are available from Guwahati to Aizawl via. Silchar.

Rail: Rail connectivity is available till Silchar via Guwahati. Nearby rail station is Silchar.

Local Transport: Pre- paid taxi services are available from airport to reach the venue/hotel.

Accommodation

Limited accommodation may be arranged at the University Guest House on payment basis. Participants can look for accommodation in following Hotels in Aizawl city on payment bases. Participants are advised to directly contact to hotels

1. **Hotel Regency**, contact number: 0389-2344234; Mobile: 08794749334, <http://www.regencyaizawl.com>.
2. **Hotel Grand**, **Phone:** 0389 234 7777; https://www.hotelscombined.in/Hotel/The_Grand_Hotel_Aizawl.htm
3. **Hotel Floria**, Contact number: 0389 2329555; <https://hotelfloria.in>
4. **Hotel Ritz**, **Phone:** (0389) 2323 358 / 2326 279; <https://www.mizoramtourism.org/hotels-in-mizoram/hotel-ritz-aizawl-mizoram>
5. **Hotel Sangchia**, **Phone:** 085750 19020; <http://www.hotelcontactnumber.in/hotel-sangchia-hotel-24954.html>
6. **Hotel Chief**, **Phone:** 0389 234 1097; <https://www.asklaila.com/listing/Aizawl/zarkawt/hotel-chief/SFAvoa43>.

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Contact Members

Dr. Bhim Pratap Singh, Dept. of Biotechnology, Mizoram University, **9436353807;**
8794343946

Dr. Riyaz. Z. Sayyed, President, India Chapter, Asian PGPR Society, Shahada,
(MS), **9673578286; 7841048078**

Dr. Ajit Kumar Passari, Dept. of Biotechnology, Mizoram University, **9401905151;**
8794343946



Tourist Places of Mizoram

Reiek

Reiek is a mountain and tourist spot 29 km from Aizawl, Mizoram, India. It rests at an elevation of 1548 metres overlooking Aizawl and offers a view of the surrounding valleys and hills. On a clear day the plains of Bangladesh can be seen from the top of the hill. Reiek Hill is surrounded by thick lush green temperate trees and bushes. Reiek has a typical Mizo village consisting of the distinctive traditional huts of the different Mizo sub-tribes, Mizo chieftain's house, a bachelor's dormitory and that of a widow has been created and maintained Govt. of Mizoram.



Tamdil Wetland

Tamdil Lake is the second largest lake in the state of Mizoram located in Saitual Sub-Division of Aizawl District. The total area under Tamdil Wetland Reserve is 13.7 sq.km. Tamdil Lake is situated 6 km from Saitual, the nearest town, and 64 km from Aizawl, the capital city of Mizoram, India. Tamdil lake has become a very good eco-tourism hotspot where people from various part of the state enjoy the aesthetic beauty of its surrounding during holidays.



KV Paradise aka Mizo Taj Mahal

It may not be as beautiful as the Taj Mahal at Agra, but this small white marble memorial is built upon love. It is constructed by a loving husband in memory of his wife a husband in the loving memory of his wife Pi Rosangpui Varte who died in accident. You can view the city of Aizawl from here. To reach the place you can take a city bus and it is about 8 km ride from the city centre.



Rih Dil Lake

Rih Dil is a natural lake located in northwestern Chin State in (Burma). It lies at about 3 kilometers from Zokhawthar village at an Indo-Burma border. The lake is about one mile in length and half a mile in width. It is about 3 miles in its circumference and the depth is about 60 feet. It has a heart-shaped outline. Rih Dil occupied an important status in the traditional religion of the Mizo people. According to the ancestors of the tribals, it was a corridor to their heaven called Pialral. All souls destined to Pialral must pass through the lake. Due to its cultural importance it is often said 'the largest lake in Mizoram is Rid Dil lake.



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Dr. Bhim Pratap Singh
Vice President-National Conferences
India Chapter, Asian PGPR Society
Department of Biotechnology
Mizoram University, Mizoram-796004
Mob: +91-9436353807

Dr. Riyaz Z. Sayeed
President
India Chapter, Asian PGPR Society
Mob:+91-9673578286