





9thAsian PGPR India Chapter National Conference

on

"The Beneficial Microbes as Integrated Approach for Sustainable Agriculture: Opportunities & Challenges"

29 - 30 July, 2024

Organized by Department of Botany

Bharathiar University, Coimbatore – 641 046, Tamil Nadu, India.



For more information, please visit: www.asianpgprconference2024.org

Dear Delegates,

It is with immense pleasure that we welcome you on behalf of the Asian PGPR Society and its Indian Chapter for Sustainable Agriculture to the 9th Asian PGPR India Chapter National Conference on "The Beneficial Microbes as Integrated Approach for Sustainable Agriculture: Opportunities & Challenges" scheduled to be held from 29-30 July, 2024 at Bharathiar University, Coimbatore, Tamil Nadu, India. This conference is being organized in collaboration with Asian PGPR Society for Sustainable Agriculture supported by various educational, industrial, entrepreneurial and media partners. As PGPR associated technologies are currently experiencing a dramatic increase, research on the interactions between PGPR and crops has become vital and is considered to play a key role for the future of sustainable and organic agriculture. PGPR shows a significant role in the sustainable agriculture that can increase the demand for crop production with a considerable reduction of synthetic fertilizers and pesticides use is a big challenge nowadays. This conference pays tribute to the growing significance of bio-fertilizers, biofungicides, bio-pesticides, bio-stimulants, bio-herbicides, bio-nematicides, etc. while, identifying newly emerging technologies in the league. Hence, we cordially welcome you to join us and witness the advances in agriculture on the use of PGPR strategies to the next generation of green revolution in safe food production. In this conference, we bring together the academia, researchers, entrepreneurs, policy makers, progressive farmers and Government officials comprising a core team of technical experts from across India to deliberate and understand the strengths and weaknesses in developing PGPR associated technologies for use by farming communities across the country. The outputs would form a strong foundation in addressing the issues of global food security in terms of using PGPR associated technologies from lab to field. The agenda of the 9thAsian PGPR India Chapter National conference is to create a good platform for scientific deliberations and discussions on PGPR research by means of national and global networking between academia and industry visionaries. In addition, Nationally renowned speakers, academicians, industrialists and policy makers those who are doing research on PGPR have been invited for research collaboration in sustainable agriculture which in turn useful for entrepreneurial opportunity for young minds.



Prof. Dr. M. S. Reddy Founder & Chairman, Asian PGPR Society for Sustainable Agriculture, Auburn University, Alabama, USA Mobile: +1 334 559 1971 E-mail: prof.m.s.reddy@gmail.com



Dr. P. Ponmurugan Organizing Secretary - 9th Asian PGPR National Conference, Associate Professor, Department of Botany, Bharathiar University, Coimbatore, TN, India. Mobile: +91 98658 57816 E-mail: pgprabstract2024@gmail.com

Asian PGPR Society for Sustainable Agriculture

The Asian PGPR Society is a non-profit scientific society established in 2009 to enable scientists, researchers, academicians, government groups, students, farmers, industry personnel etc. from various agricultural disciplines to discuss their interests and research avenues towards latest developments of PGPR from microbe to microbiome technologies with commercialization aspects. It has 1500 registered life members from around the globe and is growing. PGPR's are plant growth-promoting rhizobacteria defined as root-colonizing bacteria that exert beneficial traits on plant-growth and development. In the context of an increasing International concern for food and environmental safety, the use of PGPR for reducing chemical inputs in agriculture is a potentially important issue. The application and commercialization of PGPR for sustainable agriculture is a growing and demanding market concern worldwide. The Asian PGPR Society organizes International conferences every two years, to provide a venue for all players in the PGPR industry to meet, share and learn about the latest gamechanging innovations, cutting-edge technologies, and crucial government policies shaping the future of the globe's sustainable agriculture. Over the years, the society has organized seven Asian PGPR International Conferences includes, India (2009), China (2011), Philippines (2013), Vietnam (2015), Indonesia (2017), Uzbekistan (2019), Malaysia (2022) and the next Eighth International PGPR Conference is to be held at World Vegetable Research Centre, Taiwan during 25-27 September, 2024. The society has established its chapters in different Asian Countries to promote its vision towards sustainable and organic agriculture through their National Conferences every year.



India Chapter of Asian PGPR Society

As a subsidiary to Asian PGPR parental society, India Chapter is dedicated in promoting PGPR strategies to support secondary green revolution in safe food production and safety across India to reach theunreached. The India Chapter organizes its National Conferences every year. Over the years, it has been organized eight National Conferences, which includes BHU, Varanasi (2016), MSU, Baroda, (2017), New Delhi (2018), MZU, Mizoram (2019), ANU, Guntur (2020), BU, Bhopal (2021) Layola Academy, Secunderabad (2022) and UHS Bagalkot, Bengaluru Campus (2023) with tremendous participation from all over India. Owing to its tradition, the 9 th Asian PGPR India Chapter National conference is scheduled from 29-30 July, 2024 at Bharathiar University, Coimbatore, Tamil Nadu, India.

Bharathiar University

The Bharathiar University was established at Coimbatore by the Government of Tamil Nadu in February 1982 under the Bharathiar University Act, 1981 (Act 1 of 1982). University Grants Commission (UGC) recognized Bharathiar University in 1985. The National Assessment and Accreditation Council has accredited the University with an 'A++' Grade in the Fourth cycle assessment. Stand at 15 ralk under the category of Universities and 24 among the top 100 institutions in the MOE's National Institute Ranking Framework's (NIRF 2022) ranking in 2021, Bharathiar University secured a ranking in the range of 801-1000 in the Times Higher Education World University Rankings. The Intellectual Property Rights Cell of Bharathiar University protects the rights of inventions of faculty and young researchers in the University. The DRDO-BU-Center for Life Sciences was established in Bharathiar University as a joint venture by DRDO, Ministry of Defence, and Government of India, as an autonomous research institute to pursue basic and applied research.



Botany Department

The Department of Botany was instituted in the Postgraduate Centre of the University of Madras in 1972. The Department is offering M.Sc. in Plant Science, M.Phil. and Ph.D. programmes in Botany in the fields of Mycology, Microbiology, Plant Physiology, Nutraceuticals, Phytomedicine, Tissue culture, Reproductive Biology, Genetics, Plant Breeding, Plant systematics and Biomedical applications. The Department is also offering a P.G. Diploma in Horticulture for M. Sc. Plant Science students with a view of promoting employment opportunities. So far the Department has produced 160 Ph.D. and 225 M.Phil. scholars. The faculty members have so far completed 45 research projects funded by various National and International agencies. The Department is also actively involved in Industrial collaboration and consultancy services. The Department has a MoU with the Chinese Academy of Sciences for scientific collaboration in the areas of Biodiversity Conservation, Energy Crops and Herbal Medicine.

The faculty and students have made academic visits to countries including USA, U.K., Japan, Singapore, Germany, China, France, Thailand and Malaysia. Recently, a herbal garden for medicinal plants conservation has been established by the Department, for an area of about 4 acres, in the university premises, which houses 157 endemic and endangered medicinal plants. It has been envisaged at the time of establishment of the research outcome will benefit both the academia and the society.

Venue: Dr. Usha Kirtilal Mehta Convention Centre



About Coimbatore

Coimbatore is the third largest city in Tamil Nadu. It is often referred to as the "Manchester of South India" due to its cotton production and textile industries. Coimbatore has been selected as one of the hundred Indian cities to be developed as a smart city under Prime Minister Narendra Modi's flagship Smart Cities Mission. In 2023, Coimbatore has been selected for the best Smart City award from the Central Government for its well establishment in facilities for the people. The city is well connected by buses, trains and flights. During July the temperature normally ranges from 22 to 25°C with intermittent rains. However, there is no need for warm clothing.

Salient features of the Conference

- Good platform for scientific deliberations and discussions.
- Information, benchmarking and networking offered at one place.
- National & Global networking between PGPR researchers
- Nationally renowned speakers for research collaboration.
- Structured scientific programmes for sustainable agriculture.
- Convene academia and industry visionaries to get inspired.
- Problem solving skills in organic agriculture.
- Gain the knowledge to find solutions for problems.
- Career guidance for students and scholars of next generation.
- Entrepreneurial opportunity for young minds.
- Poster and oral presentations and world class stall exhibitions.
- MOUs among interested groups of academia and industries and policy makers.
- Making global opportunities between stakeholders.

Conference themes

Theme 1: Fundamental & Applied Research

PGPR, Bio-inoculants, other beneficial microorganisms and phytochemicals for crop improvement, integrated pest & disease management.

Theme 2: Engineering & Technology Research

Microbial Biotechnology, Microbiome Engineering, soil and plant health management.

Theme 3: Impact of Climate and Nanotechnology

Carbon Sequestration, Climate Resilience, Mitigation, Semiochemicals, Nano-PGPR, Nano-biostimulants, Nanonutrients & Nano-farming for integrated approach.

Theme 4: ICT, Geo and Drone Technologies

Artificial Intelligence, Digitalization, Gene editing, Robotics, Drone technology and GPS coupled with PGPR technology in modern agriculture.

Theme 5: Commercialization of PGPR

Entrepreneurial opportunity, Product development, Economy and Commercialization of PGPR in Smart farming.

Theme 6: Regulatory, Safety & IPR Strategies

Global opportunities, Regulatory affairs, Policy, Safety & IPR strategies for PGPR technologies in agriculture.

Call for Abstracts/Papers

The original research papers/abstracts/ conceptual papers related to the conference themes are invited from all the stakeholders viz., students, faculties of SAU's/ICAR institutes, and PSUs/ companies/ private organizations. The soft copy of the papers both abstract and full-length papers should be sent to the organizers of the conference on or before 10 thJuly, 2024 *via* E-mail at: pgprabstract2024@gmail.com &

pgprconference2024@buc.edu.in_and also submit online at <u>www.asianpgprconference2024.org</u>. The awards will be provided for best paper and poster presentations selected by a panel of Judges. All other registered candidates would be awarded with participation certificate.

Guidelines for Abstract submission

Based on the above Conference themes, abstracts and full-length papers are invited and written clearly in English and submitted on or before 10 July, 2024.

- Abstracts must report the results of the original research or other activity of significant merit related to PGPR microbiome and its allied fields.
- Abstracts should not exceed 300 words. It must be typed in Times New Roman, font 12, 1.0 spacing and submitted as a word document with no grammatical, typographical or factual errors.
- Title of abstracts followed by full names (without using titles such as Mr./Mrs./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 be marked with an asterisk (*) and his/her email should be mentioned.
- Peer reviewed and selected abstracts would be invited for lead and oral presentation.

Conference Proceedings

The participants are requested to send their full papers directly as we indent to publish the full proceedings with ISBN by renowned publisher and release the same during inaugural function of the conference. The full-length paper should not exceed 10 pages including tables, figures and references. The content should be typed in Microsoft (MS) word (Times New Roman, font size 12, line spacing 1.5), highlighting the results of original research work in the following format: Title; author(s) name and affiliation (address of the institution with e-mail ID of corresponding author etc. Presenting author should be indicated with an asterisk (*) symbol. Title, author's name and affiliation should be center aligned. Keywords should be limited to 5.

- Full paper should have the sequence of title of the paper with author(s) name, affiliation with e-mail ID, abstract (not exceeding 300 words) with key words, followed by Introduction, Materials and Methods, Results and Discussion, References as per format shown below [limit the references to 10-15].
- Cite references in the text as: (Marimuthu, 2010) or Marimuthu and Nakkeeran, 2012 or when more than two authors- (Kannaiyan et al., 2011). Do not give serial numbers for references listed in the text.
- List references in alphabetical order [No serial number]

How to cite References

• All initials to be at the end of author's name, give full name of journal.

To cite Journals

Gayathri, J., Kasipandi, M., Ashwini, L.M. Gayathri, N. and Parimelazhagan, T. 2022. Understanding the bioaccessibility, α -amylase and α -glucosidase enzyme inhibition kinetics of *Allmania nodiflora*. Food Chem. 372: 131-139.

To cite Proceedings / Book chapters

Shaikh, S.S., Sayyed, R.Z. and Reddy, M.S. 2016. Plant Growth-Promoting Rhizobacteria In: (Eds.) K.R. Hakeem et al., Plant, Soil and Microbes. Springer International Publishing, Switzerland, pp. 181-201.

To cite Books

Ponmurugan, P. and Deepa, M.A. 2022. Herbal Technology. New Age International Publishers, New Delhi, India 410p.

Call for Asian PGPR India Chapter Awards

The Asian PGPR Society India Chapter grants the following awards and honours to a current Asian PGPR Society Life Member in recognition of distinguished contributions to PGPR's original research, teaching, administration, professional and public service, and/or extension and outreach or to the society. Additionally, Asian PGPR supports future leaders along with innovative research in PGPR product development and international activities through industry supported funds. Following are the categories of awards:

- Best Young & Senior Scientist
- Best Women Young & Senior Scientist
- Best Entrepreneur & Best Start-up
- Best Social Worker
- Life-time Achievement
- Excellence in Research & Extension
- Excellence in Industry
- Excellence in Regulatory Affairs and Crop Security
- Excellence in Teaching & Administration
- Progressive Farmers
- Asian PGPR Society Services

General Instructions

Current Asian PGPR Life membership and participation as a delegate with paid registration required for these awards. Each member of the society may nominate one candidate for each of the above awards. Nominations should address the activities most relevant to the award, with a clear statement of the impact the nominee has had in his/her specific area of expertise. The nomination packet must include the following supporting material:

A nomination statement not to exceed 1,000 words that highlights the contributions of the candidate and includes the candidate's name, place of birth, and institutions, with degrees and years granted, as well as current position. The statement should be focused and succinct and document the relevancy and impact of the candidate's contributions to the advancement of science in PGPR's.

1. Curriculum vitae not to exceed two pages.

2. A complete list of publications. The list should be separated into the following categories, with most recent publications first. Abstracts and manuscripts not yet accepted should not be included.

- Refereed journal articles and extension publications
- Books, reviews, book chapters, and etc.,
- Technical publications (e.g., monographs, reports, symposium papers, proceedings, etc.)
- Popular publications and Invited presentations

Nomination Deadline

Award nominations are open till May 30, 2024.

The Awards and Honors Committee will submit their findings to PGPR Society Council for scrutiny. Those receiving awards will be notified by the Society Chairman by end of June 2024 and will be awarded during the Conference Gala Dinner on July 30, 2024 at Bharathiar University. Nominations must be submitted via E-mail to Dr. P. Ponmurugan (E-mail: ponmurugan@buc.edu.in) for compilation and transmission to the awards committee.

Oral & Poster Presentations

Oral Presentation:

The number of slides shouldn't be more than 15 and the time is 15 minutes and the presentation should include Title, Name, Theme, and Address on the first slide of the presentation, Introduction, Material and Methods, Results and Conclusion.

Poster Presentation:

Size: 120 cm length x 90 cm breath. Font Size: Title - 80 pt, Authors - 50pt, Subheading 46 pt, Text - 24 pt, Caption - 18 pt. Poster should include - Title, Name, Theme, Address, Introduction, Material and Methods, Results, Conclusion and References.

Registration

		After June 30, 2024 in ₹
PGPR Member	3,000	4,000
Non-PGPR Member	4,000	5,000
Students & Scholars	1,000	1,500
Entrepreneurs / Companies	10,000	15,000
International Delegates (US\$)	150	200

Registration fee includes working lunch, dinner, coffee break and registration kit only.

Mode of Payment

Payment can be remitted via GOOGLE PAY / PAYTM/ PHONE PE UPI ID.Account No.: 822610210000088Account Name : Asian PGPR conferenceAccount Type: Savings AccountBank Name: Bank of IndiaBranch: Bharathiar University BranchBranch code: 008226IFSC Code: BKID0008226MICR code: 641013011



Travel Arrangements

The participants are requested to make their own travel arrangements. If assistance is needed, the participants are requested to contact the organizers.

Dates to be remembered

Early bird Registration: June 30, 2024 Last date for Registration: July 10, 2024 Last date for Submission of Abstract: June 30, 2024 Last date for Submission of Full Paper: July 10, 2024 On spot Registration: July 29, 2024

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Bharathiar University website: https://b-u.ac.in/

Google form link https://forms.gle/vbHvW4P5mmovk5KF6



SPONSORSHIP LEVELS

Diamond SPONSORSHIP | Rs.2,00,000+

- Four complimentary conference registrations
- Patron and Advisory Board Member
- Acknowledgment with logo in Registration Brochure and Conference Programme
- On-site signage
- Complimentary conference attendee mailing list
- Recognition on Asian PGPR conference website with a link to your website
- Soft copy of the proceedings
- Exhibition space
- 5 minute presentation during the kick off session
- One oral presentation during regular sessions
- VIP table at conference social event
- Your promo materials in conference bags

PLATINUM SPONSORSHIP | Rs.1,00,000+

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- One oral presentation during regular sessions
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- Your promo materials in conference bags



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- GOLD SPONSORSHIP | Rs.75,000
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 - Exhibition space
 - 5 minute presentation during the kick off session
 - One oral presentation during regular sessions
 - VIP table at conference social event
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SILVER SPONSORSHIP | Rs.50,000

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- Soft copy of the proceedings
- Exhibition space
- Your promo materials in conference bags



BRONZE SPONSORSHIP | Rs.25,000

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- Acknowledgment with logo in Registration Brochure and Conference Programme
- Complimentary conference attendee mailing list
- Recognition on Asian PGPR conference website with a link to your website
- Soft copy of the proceedings
- Exhibition space
- Your promo materials in conference bags

We really appreciate your help and we would be grateful for considering this request. Please do not hesitate to contact us if you need any other information in this regard. We look forward to the pleasure of hearing from you soon. Further details regarding the sponsorship, please contact the Organizing Secretary Dr. P. Ponmurugan [Mobile: 9865857816, Email: ponmurugan@buc.edu.in].

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For more information, please visit: www.asianpgprconference2024.org

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MEDIA PARTNERS GRICULTURE 26



CONFERENCE LOCATION [How to reach Bharathiar University?]



How to reach the Venue?

By Air: Travel Distance from Coimbatore International Airport to Bharathiar University, Coimbatore: 17.5 km and well connected by road.

By Rail: Train facility to Coimbatore Railway station is available from all the capital cities of different states.

By City Bus: From Gandhipuram Bus stand to the University: 70, 70 A/B/D, 76. From Railway Station to the University: 1D, 1C

ACCOMMODATION

Accommodation at University Campus

Accommodation may be arranged in the guest house, international and students hostels and academic staff colleges at university campus (on a first come first served basis) both prior request and payment for the student participants. The hotels are in the city which is about 5-10 kms away from the University which may be availed by the delegates.

Accommodation Rate per day at University Campus		
University Guest House	:	Rs.1000/-
International hostels	:	Rs.500/-
Students Boys / Girls Hostels	:	Rs.300/-
Academic Staff College	:	Rs.400/-

Accommodation at Hotels











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The Residency Towers Coimbatore

Address: 1076, Avinashi Road, Coimbatore – 641 018. Contact: 097877 77770 Website: https://www.theresidency.com/ E-Mail: resvcbe@theresidency.com Distance: 14.1 Km. 4 Star

Hotel Park Elanza

Distance: 14.4 km

5 Star

Address: 412, Dr Nanjapaa Road, Ram Nagar, Coimbatore – 641 018 Contact: 0422 223 2000 Website: www.coimbatore.parkelanza.com E-Mail: info@parkelanza.com Distance: 12.5 km. 3 Star

Hotel Taj Vivanta Address: 105, Race Course Road, Gopalapuram, Coimbatore - 641 018 Contact: 0422 668 1000 Website: www.vivantahotels.com Distance: 12 km. 4 Star











Hotel Rathna Residency

Address: 355, Variety Hall Road, Coimbatore – 641 001. Contact: +91 73730 44411 Website: www.hotelrathnaresidency.com/ E-Mail: info.cbe.hotelrathnaresidency.com Distance: 11.7 Km. 3 Star

Svarga Residency

Address: Maruthamalai Main Road, Vadavalli, Coimbatore – 641 041. Contact: 0422 242 6655 Website: www.svargaresidency.com E-Mail: Info@svargaresidency.com Distance: 2.7 km. 2 star

Hotel Alankar Grande

Address: 10, Sivasamy Road, Ram Nagar, Coimbatore – 641 009. Contact: 0422 242 6655 Website: www.alankargrande.com E-Mail: reser@ alankargrande.com Distance: 11.7 km. 4 Star

Hotel CAG Pride

Address: 312, Bharathiyar Rd, Siddhapudur, New Siddhapudur, Coimbatore, Tamil Nadu 641044 Contact: 0422 431 7777 Website: <u>https://www.cagpride.com/</u> E-Mail: reservations@cagpride.com Distance: 12.8 km. 3 Star

Hotel Landmark

Address: 353/1, Bharathiyar Rd, Gandhipuram, Coimbatore, Tamil Nadu 641044 Contact: +917373044411 Website: https://www.hotelrathnaresidency.com/landmark-coimbatore/ E-Mail: info.landmark@hotelrathnaresidency.com Distance: 10.5 km. 3 Star

LOCAL SITE SEEING VISIT FOR ONE DAY AFTER CONFERENCE (31st July 2024)

(Extra charges will be applicable which is based on the number of interested persons and place of selection)

Marudhamalai



Marudhamalai Temple is known for its high vibrations and revitalizing atmosphere. The Dravidian-architecture of the temple is completely aweinspiring.

Anaikatti



One of the most picturesque places in India's south is Anaikatti, Coimbatore. With its picturesque waterfalls and surrounding lush greenery. It is located directly where Tamil Nadu and Kerala state borders meet.

TNAU Botanical Garden



This garden is located in the campus of Tamil Nadu Agricultural University in Coimbatore spread over 300 acres of land having many types of trees, herbs and shrubs covering 800 species of flora, both exotic and native.

Isha yoga Centre



The Isha yoga center situated at the foothills of Velliangiri on the outskirts of Coimbatore, is the headquarters for Isha yoga.

Gedee Car Museum



One of the top places to visit for car and bike lovers which is an amalgamation of vintage and new cars that are transported to the Museum all the way from countries like US, UK, Japan and Germany.

Gass Forest Museum



The museum has timber, non-timber forest products, wood crafts, wildlife, entomology, mycology, geology, ethnology, arms and the stuffed animals and birds are exhibited.

Kovai Kutralam



It is a scenic spot with a gentle waterfall originating on the Siruvani hill ranges. Waterfalls around the forests ranges is the beauty of this place

Perur Patteeswarar Temple



It is quite an ancient temple which was built to worship Lord Pateeswara Swamy (Lord Shiva). It is largely known for its grand architecture, ancient artwork, paintings, sculptures, carvings, and relics.

Ooty



It is a beautiful hill town which is famous for natural beauty, tranquility and uniqueness. It is called as the Queen of hill stations and is an important tourist attraction.

Insect Museum



Harmful and beneficial insects, termites, honey bees and butterflies are displayed under the themes of insect diversity. Information neatly arranged with live models and interactive display boards.

Valparai Tea Estates



It is a hill station with vast areas of tea plantations for large scale production tea powders and amidst thick reserve forest nurturing a unique flora and fauna.

Coonoor Coffee Estates



Coonoor is a hill station in Tamil Nadu state known for its tea and coffee estates. More than 100 plantations are situated in the hills. Dolphin's Nose and Sim's Park are a sprawling public garden with plants like rhododendrons, roses and eucalyptus trees.

Research Organizations at Coimbatore for Collaborations

- Bharathiar University
- BU-DRDO Centre for Life Sciences
- Tamil Nadu Agricultural University
- Anna University Regional Centre
- Botanical Survey of India Southern Regional Centre
- ICFRE-Institute of Forest Genetics and Tree Breeding
- South Indian Textile Research Association
- ICAR-Central Institute for Cotton Research
- ICAR-Sugarcane Breeding Institute
- Salim Ali Centre for Ornithology and Natural History

Bharathiar University website: <u>https://b-u.ac.in/</u>

REGISTRATION FORM

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Name of the accompany	ing		
Person (Specify)	:		
Title of the Oral/ Poster			
Presentation	:		
Theme area	:		
Draft / Cheque/ Online			
Payment details	:		
Registration fee Rs. / \$:		
Transection ID & Date	:		
Accommodation Required : Yes / No			
Date :			
Signature :			

Further Details, please contact:

Dr. P. Ponmurugan Organizing Secretary-9th Asian PGPR National Conference Associate Professor, Department of Botany Bharathiar University Coimbatore – 641 046 Tamil Nadu, India. Phone : 0422 2428304 Mobile : 9865857816 Email : pgprabstract2024@gmail.com pgprconference2024@buc.edu.in