



INDIAN PHYTOPATHOLOGICAL SOCIETY

Delhi Zone Symposium



Integrating Genomics in Plant Pathology: New Frontiers in Disease Management

January 15-16, 2025

Organized by

Division of Plant Pathology
ICAR-Indian Agricultural Research Institute
New Delhi-110012



Venue

Auditorium, Division of Agricultural Engineering
ICAR-Indian Agricultural Research Institute
New Delhi-110012

Call for Abstract Submission and Registration

Invitation

We are pleased to inform you that the **Division of Plant Pathology, ICAR-IARI, New Delhi**, in collaboration with the **Indian Phytopathological Society (Delhi Zone)**, is organizing a Zonal Symposium on ***Integrating Genomics in Plant Pathology: New Frontiers in Disease Management*** on **January 15-16, 2025**. The symposium will be held at the **ICAR-Indian Agricultural Research Institute, New Delhi**. On behalf of the organizing committee, we cordially invite you to participate in this event.

About the Society

The **Indian Phytopathological Society (IPS)**, established in **1947** by **Balchandra Bhavanishankar Mundkur**, is a leading organization that brings together plant pathologists from across the country. It focuses on promoting research, education, and practical solutions for managing plant diseases, supporting sustainable agriculture. IPS provides a platform for scientists and professionals to exchange ideas and collaborate through its journal ***Indian Phytopathology*** and regular meetings. Over the years, the society has significantly contributed to advancing plant health and strengthening India's agricultural resilience.



History of Plant Pathology in India: The Pioneering Role of IARI

The journey of plant pathology research in India found its roots at **IARI, New Delhi**, marking the beginning of a legacy in agricultural innovation and disease management. The Indian plant pathology traces back to the late 19th century when scientists began addressing agricultural challenges through the study of plant diseases. **E.J. Butler**, often called the "**Father of Indian Plant Pathology**," made pioneering contributions by investigating fungal diseases like rusts, smuts, and wilts and authoring the influential book ***Fungi and Diseases in Plants*** (1918).

Organized plant pathology research in Asia began with the establishment of the **Imperial Agricultural Research Institute** (now **Indian Agricultural Research Institute**) at Pusa in 1905. IARI played a pivotal role in systematically studying crop diseases, laying the foundation for modern plant pathology in India. Post-independence, IARI continued to lead advancements in plant pathology, with its research and educational programs inspiring similar initiatives **across agricultural universities and ICAR institutes**. Today, the field thrives, with plant pathologists addressing emerging threats and developing sustainable disease management strategies, significantly contributing to India's agricultural resilience and food security.

About the symposium

This symposium aims to bring together researchers, educators, industry professionals, and students to exchange ideas, innovations, and experiences in basic and applied plant pathology. **IPS-Delhi Chapter 2024** will feature a dynamic program, including a **presidential address, invited talks, and poster presentations** focused on recent advances in pathogenomics, microbiomes and their role in disease management.

The integration of genomics in the “**post-genomic**” era has revolutionized our understanding of **plant pathosystems** by enabling high-resolution exploration of pathogen genomes to identify virulence factors and their regulatory mechanisms. **Pathogenomics** has not only enhanced genome comparisons and pan-genome analyses of evolving pathogens but also facilitated strategic applications of **genomics-assisted crop improvement** and protection, leading to the development of robust disease-resistant crops. IARI, supported by ICAR funding, has made significant contributions to the genome sequencing of plant pathogens, providing critical insights into virulence mechanisms and driving the development of innovative and sustainable plant disease management strategies.

Topics for deliberation

- ❖ The symposium on ***Integrating Genomics in Plant Pathology: New Frontiers in Disease Management*** will cover a range of cutting-edge topics.
- ❖ ***Genomic Insights into Pathogen Diversity, Molecular Diagnosis, and Virulence*** will explore how genomic tools are enhancing our understanding of pathogen variation and their mechanisms of virulence.
- ❖ ***Metagenomics and Microbiome-Assisted Disease Suppression*** will delve into the role of microbiomes in managing plant diseases and their potential to act as natural biocontrol agents.
- ❖ ***Applying Genomic Insights for Disease Management*** will focus on the translation of genomic research into practical disease control strategies, including the development of resistant crop varieties and precision diagnostics.
- ❖ The ***Academia-Industry Interface*** session will foster collaboration between researchers and industry professionals to advance plant disease management technologies.
- ❖ The contest for ***Prof. M. J Narasimhan Merit Academic Award*** and ***APS-IPS travel grant*** showcase exceptional young researchers in the field, while the ***Poster Presentation*** session will provide a platform for participants to present their latest findings on genomic approaches in plant pathology.

CALL FOR ABSTRACTS

Abstract (250 words) including titles, authors name, affiliation and corresponding authors email ID of unpublished research works related to the conference themes are invited for presentation (Oral and Poster). It should be prepared in MS Word, Times New Roman, 12 font size, 1.5 spacing. All Abstracts, Keynote papers and lead papers are to be submitted preferably through online only on or before **December 25, 2024**. Please **make bold** the name of the presenter and mention the email ID of the presenting author.

THEMES- Submit your abstract for the following sessions

- i. Genomic Insights into Pathogen Diversity, Molecular Diagnosis, and Virulence**
- ii. Metagenomics and Microbiome-Assisted Disease Suppression**
- iii. Applying Genomic Insights for Disease Management**
- iv. Academia-Industry Interface**
- v. MJ Narasimhan Merit Academic Award Contest and APS-IPS travel grant**
- vi. Poster Presentation**

PRESENTATIONS

Keynote Lectures: Nationally recognized eminent scientists/academician will be invited to deliver special lectures on the frontier research and technologies related to agricultural biotic stress management. Keynote lectures will be of 30 minutes duration.

Lead Talk: Researchers/faculty/scientist will be identified by technical Committees to give lead lectures which will throw insight into the various themes of the Symposium. Each lecture will be of 15 minutes followed by discussion.

Oral Presentation: Delegates with excellent research will be chosen to deliver a talk on their subject area in each theme with a duration of 12 minutes with discussion.

Poster Presentation: All delegates will have the opportunity to present their research papers through poster presentations. Materials for affixing the posters will be provided by the organizers. Posters should measure 4 feet (L) x 3 feet (W) and use standard font sizes appropriate for posters.

Academia-Industry Interface: The session on Industry-Academia Interface will provide a platform for collaborative discussions on advancing plant health through innovative research, sustainable technologies, and practical applications in agriculture.

REGISTRATION FEE

The seminar will be open for registered delegates. The details of the registration fee are given below.

Delegate Type	Early Bird Registration
Scientist / Faculty / Govt. officials/IPS members	INR 1180.00 INR (1000.00 + 180 GST@ 18%)
Student	INR 590.00 INR 500.00 + 90 (GST@ 18%)
Retired Scientist	Complimentary & Waived Off

BANK DETAILS FOR RTGS/ONLINE TRANSFER

All the payment shall be made through online transfer.

Name of the Account Holder	Indian Phytopathological Society
Name of the Bank and Branch	CANARA Bank, Pusa Campus, IARI, New Delhi 110012
Account Number	90292010005900
RTGS/NEFT/IFS Code	CNRB0019029
MICR Code	110025041

“Join the Frontline of Plant Health Innovation—Become an IPS Member Today!”

Visit: <https://www.ipstdis.org/>



IPS AWARD CONTESTS

Prof. M.J. Narasimhan Merit Academic Award (IPS) - Zonal level contest for Selection to National level contest

The contest for **Prof. M.J. Narasimhan Academic Merit Award** is open to all members of IPS under 35 years of age. The Delhi Zone will organize a contest among the zonal members during the Zonal Chapter's Meeting for preliminary selection of contestants. Only two names will be recommended by Zonal President for the final contest to be held during IPS Annual Meeting and National Conference on **“Emerging Issues and Sustainable Strategies in Plant Health Management: A Global Perspective”** at ICAR-Central Citrus Research Institute (ICAR-CCRI), Nagpur during January 19-21, 2025.

TO WHOM IT MAY CONCERN

It is to be certified that the paper entitled “.....” presented for Prof. M.J. Narasimhan Merit Academic Award Contest for the year (2024) pertains to the major work done by the candidate (Name of the candidate). It is further certified that the work has not been published and presented for any other award till date and contestant is below the age of 35 years and is a member of the society.

Signature of the student

Guide/Advisor of the student

APS-IPS TRAVEL SPONSORSHIP FOR Ph.D. STUDENTS

American Phytopathological Society has offered the travel award to a Ph.D. student, who is member of IPS. Competitions among Ph.D. students in IPS-Delhi region will be held during the IPS Delhi Zonal symposium. Ph.D. students (DZ) are invited to participate in this contest in single or joint authorship. The purpose of the award is to encourage plant pathology students pursuing a doctoral degree in India and who are members of IPS to attend the APS annual meeting or APS sanctioned meeting if deemed appropriate by the Indian Phytopathological Society and APS Foundation Board.

Guidelines

- i. All interested should send their abstracts (not exceeding 200 words) of their bona fide research work / paper to the Organizing Secretary before the last date of submission by online only. The abstracts will be evaluated by a preliminary screening committee and selected persons will be allowed for oral presentation in the symposium.
- ii. For terms and conditions, please visit www.ipsdis.org

BEST ORAL/POSTER PRESENTATION AWARD

Best Oral / Poster Presentation award will be given in each session.

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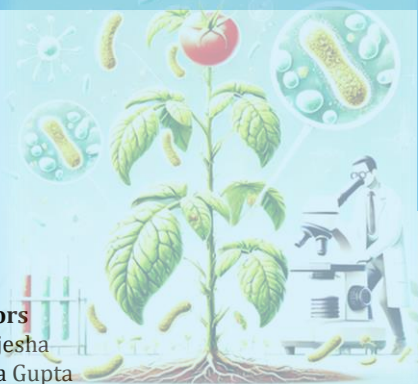
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Bronze	Rs. 50,000/-	<ul style="list-style-type: none">• 1 Complementary Registration• Full page black and white advertisement in the Abstract/Souvenir book

For further details, please contact

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