



PAMI-Bio 2026

April 7 – 11, 2026

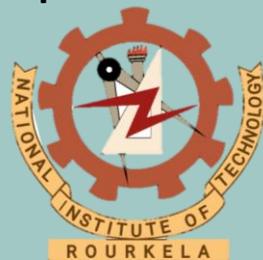
**Venue: Department of Life Science
National Institute of Technology Rourkela
Rourkela-769008, Odisha, India**

PAMI-Bio 2026

**Workshop on Plant-Microbe Interactions in
Biotechnology**

April 7 – 11, 2026

Venue: Department of Life Science



Patron: Prof. K. Umamaheshwar Rao

Chairman: Prof. Bismita Nayak

Conveners: Prof. Binod Bihari Sahu

Prof. Surajit Das

Department of Life Science

National Institute of Technology Rourkela

Rourkela-769008, Odisha, India

NIT Rourkela has a diversified academic program with 17 academic departments offering specialized courses at undergraduate, postgraduate, and doctoral levels of study. The Institute currently offers 21 undergraduate programs in the major disciplines of engineering, architecture, science, humanities, and management, and postgraduate programs in diversified fields of research.



Department of Life Science, NIT Rourkela, is one of the premier national-level institutions for technical and scientific education in India. The Department of Life Science is dedicated to cutting-edge research and education, equipped with state-of-the-art laboratories and a vision to solve pressing biological challenges through interdisciplinary innovation

The PAMI-Bio 2026 workshop explores the dynamic and hidden world of the rhizosphere, focusing on the molecular dialogue between plants and microbes. As agricultural challenges mount globally, understanding and leveraging these interactions through cutting-edge biotechnology is crucial for developing sustainable, climate-resilient crop systems. This 5-day intensive workshop will bridge the gap between fundamental microbiology, plant sciences, and modern biotechnological applications, offering both theoretical insights and hands-on perspectives.

Key Objectives:

- Objective 1: To isolate microbes and their Characterization
- Objective 2: Perform Advanced Molecular Profiling
- Objective 3: Analyze Chemical Signaling via Chromatography
- Objective 4: Visualize Cellular Interactions In Planta
- To foster networking and collaboration among researchers, academicians, and industry professionals.

Who Should Attend?

- Ph.D. Research Scholars and Postdoctoral Fellows
- Postgraduate Students in Life Sciences, Biotechnology, and Botany
- Early-Career Faculty Members
- Industry Professionals in AgTech and Agricultural Biotechnology

Core Themes

- **Theme 1: Foundational Microbiology for Interaction Studies:** Essential first steps in preparing the biological materials needed to study plant-microbe interactions.
- **Theme 2: Molecular Profiling: From Genomes to Gene Expression:** Molecular toolkit required to analyze the genetic makeup of the interacting partners and measure how they respond to each other at the transcriptional level.

- **Theme 3: Decoding Chemical Crosstalk via Chromatography:** Analytical chemistry techniques used to identify the chemical signals, metabolites, and antimicrobial compounds exchanged during the interaction.
- **Theme 4: Visualizing the Interface: In planta Expression and Microscopy:** Advanced cellular biology techniques to visualize where and when proteins interact within living plant cells.

Important dates :

Registration Begins	01.03.2026
Registration Deadline	20.03.2026
Seat Confirmation	21.03.2026
Workshop Begin	07.04.2026

Maximum no of participants: 20

Basis of Selection:

Selection will be made on a first-come cum first-served basis as per the application.

Registration Fees:

- Students / Ph.D. Scholars: ₹ FREE
- Faculty / Post-Docs: ₹ FREE

(Note: Accommodation can be provided in the institute's guest house (twin sharing) on a payment basis. Food can be availed on a payment basis from the guest house.)

How to Apply:

To complete online registration, the participants need to fill the following google form:

Link:

<https://forms.gle/942ANMuS5pE4nHH26>

Contact Us

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