

Plant Specialized Metabolites: an avenue of possibilities

Date: 3rd Nov to 7th Nov, 2026

 Natural Product Biotechnology Group,
Agricultural and Food Engineering Department,
Indian Institute of Technology Kharagpur,
Kharagpur - 721302, West Bengal

Important Dates:

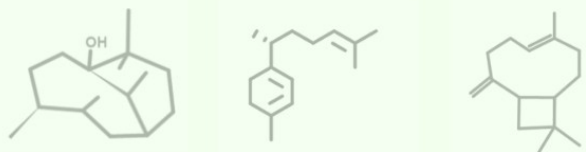
- **Application deadline: 18.09.2026**
- **Registration deadline: 04.10.2026**

*Selected candidates will be notified with registration link on 20.09.2026

- **Intake: 25 only**

What you'll learn:

- Extraction of volatiles and non-volatile metabolites from leaves, flowers and rhizomes
- Qualitative and quantitative analysis of plant metabolites using HPLC-DAD and GC-MS
- Wax- and cryo-microtomy techniques for histochemical detection of plant metabolites
- Light and epifluorescence microscopy and imaging of metabolites
- Chemometric analysis and interpretation of metabolomic data



Who can attend:

UG, PG, PhD students and faculty

Registration Fees: ₹ 12,000

(Including food, accomodation, overhead and GST)

Lecture Topics:

Prof. Adinpunya Mitra:

- A chemical ecology outlook to plant specialized metabolism
- Natural products - a botanist's excitement
- Biology of scent emission in evening blooming fragrant flowers

Prof. Debarata Sircar :

- AI driven sensor for noninvasive detection of phytochemicals
- Early detection of plant disease using a volatile based sensor technology

Prof. Shyam Kumar Masakapalli:

- Principles of ¹³C fluxomics
- Specialized metabolites for drug discovery - from In silico to in vitro

Dr. Nithya N. Kutty:

- Natural deep eutectic solvents for specialized metabolites: from optimization to product development

Dr. Pritam Kumar Dey:

- The science of plant derived compounds in modern cosmetics

Contact:

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Scan here to apply

