



Workshop on Fluorescence and Confocal Microscopy

In association with Zeiss

Organized by Department of Chemistry, IIT Guwahati
From 17th to 21st March 2025



Program support for training and capacity building in NE region

Department of Chemistry

Indian Institute of Technology Guwahati

Guwahati-71039, Assam

Funded by Department of Biotechnology, Govt. of India
BT/NER/143/SP44675/2023



The workshop aims to provide a platform to learn about principles and applications of Fluorescent Microscopy in cell and tissue engineering.

Topics to cover:

- Fluorescence resonance energy transfer (FRET)
- Fluorescence recovery after photobleaching (FRAP)
- Fluorescence loss in photobleaching (FLIP)
- Fluorescence lifetime imaging (FLIM)
- Fluorescence correlation spectroscopy (FCS)
- 3D Fluorescence cell imaging
- Practical Demonstration

Who can attend? This workshop will be useful for all the researchers including those working in the field of cell biology, biomaterials and tissue engineering to gain a theoretical understanding, and hands-on experience with fluorescence microscopy, digital image processing and analysis.

Who can apply: PhD students, Post Graduate students, and Post Doctoral Fellows. Technical Staffs, University and College faculty, Participants from Industries & Research institutes.

Register online:

<https://forms.gle/hLa3YBFrEj4gbikZ8>

Online registration will start from 20-02-25 to 02-03-25

Accommodation for participants will be provided upon request at nominal fee.

Email: dhruba_iisi@iisi.iitg.ac.in

Bank details for registration fee submission

A/C No: 39377583642

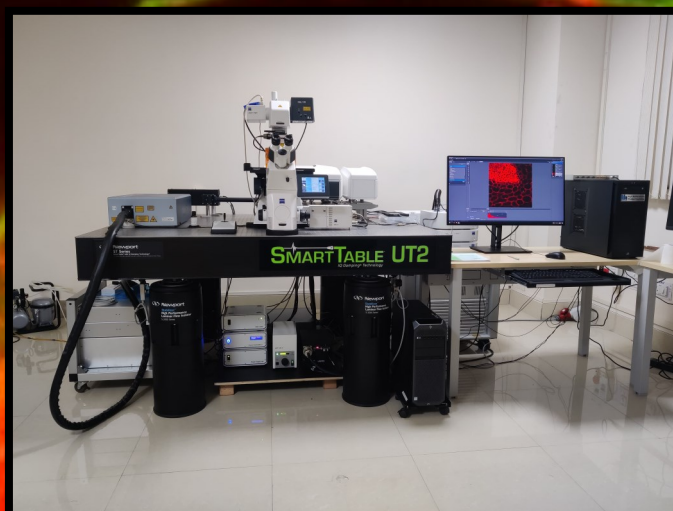
IFSC: SBIN0014262

Branch: IIT Guwahati Branch

Branch code: 14262

Bank Name: SBI

Registration for faculties, postdocs and students from the North-Eastern region is free. However, participants from the industry are required to pay a registration fee of Rs. 2000/-. Selected participants will be informed via email. Travel allowance Third AC train fare or equivalent will be provided.



About NECBH:

NECBH boasts a diverse array of cutting-edge instruments crucial for advanced scientific research and analysis:

- FESEM (Field-Emission Scanning Electron Microscope)
- NMR (Nuclear Magnetic Resonance)
- SXRD (Single crystal X-Ray Diffraction)
- PXRD (Powder X-Ray Diffraction)
- Confocal Microscopy
- FACS (Fluorescence-activated cell sorting)
- AFM (Atomic Force Microscope)

These instruments cater to a broad spectrum of scientific disciplines spanning materials science, chemistry, biology, physics, and engineering. Access to these facilities is extended to researchers and students hailing from the North-East region.

NECBH offers an exclusive 80% discount to students originating from the North-East regions. For further details, kindly explore our website at <https://www.iitg.ac.in/necbh/>.

For inquiries and bookings, feel free to contact us via email at necbheqpt.iitg@gmail.com or through phone at +91-361-258-3093.

Online portal for booking instrument facilities at NECBH

<http://www.iitg.ac.in/necbh/>

Convener
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