

## SESSION DETAILS

October 17-19, 2022

### Inaugural Program

Venue: Auditorium, E-2 Block, Amity University Campus, Sector 125, NOIDA

#### Monday, 17 Oct 2022 (Day 1)

9:00 – 10.30 hrs	Registration & Networking Tea
10.30 – 10.35 hrs	lighting the lamp & saraswati Vandana
10.35 – 10.50 hrs	Glimpses Of Amity Universe Dr. W. Selvamurthy, President ,ASTIF Amity University
10.50 – 11.00 hrs	Opening Remarks Prof.(Dr.) Ajit Varma, Group Dy. Vice Chancellor
11.00 – 11.10 hrs	Glimpses Of Aimt Dr. Amit C Kharkwal, Deputy Director, AIMT
11.10 – 11.20 hrs	Some Thoughts Dr. Ashok K. Chauhan Founder President, Ritnand Balved Education Foundation
11.20 – 11.30 hrs	Introduction of delegates/participants Dr. Swati Tripathi
11.30 – 12.00 hrs	Networking High Tea
12.00 – 1.00 hrs	Introduction to microscopy
1.00 – 2.00 hrs	Networking Lunch
2.00 – 3.00 hrs	Lecture on High End Microscopes
3.00 – 5.00 hrs	Demonstration and Hands On
5:00 – 7:00 hrs	Cultural Programme Followed By Networking Dinner

#### Tuesday, 18 Oct 2022 (Day 2)

10.00 -11.00 hrs	Optical Nanoscopy and Quantitative phase microscopy for Biological Applications
11.00 –11.30 hrs	Networking Tea
11:30-12:30 hrs	Microscopy as a tool for understanding Host-pathogen interactions and development of therapeutics
12:30- 1:00 hrs	Discussion
1.00 –2.00 hrs	Lunch
2.00 – 5.00 hrs	Hands on Training
5:00 – 5:15 hrs	Appraisal & Achievement of The Day
5:15- 5:30 hrs	Networking Tea

#### Wednesday, 19 October 2022 (Day 3)

10.00- 11.00 hrs	Immuno electron microscopy In Biological Research
11.00 – 11.30 hrs	Networking Tea
11.30 –12.30 hrs	Use of Microscopy In Plant Fungus Interaction
12.30 – 1.30 hrs	Hands On Training
1.30 – 2.30 hrs	Networking Lunch
2.30 – 4.00 hrs	Hands On Training
4.00-5.00 hrs	Valedictory Session
5.00- 5.30 hrs	High Tea

## ABOUT AIMT

The Amity Institute of Microbial Technology (AIMT) was established in September 2004. AIMT aims at excellence in performance, committed to providing quality educational opportunities and services that meet or exceed the needs of learners, industry/business and our community. AIMT is now supported by Department of Science & Technology (DST) under Fund for Improvement of S&T Infrastructure (DST-FIST) to rebuild the Science & Technology infrastructure in the country.

- State of art facilities: AIMT has most modern infrastructural facilities including four practical labs fully devoted for teaching B.Sc. and M.Sc. students, two research labs for carrying out the research projects and specialized labs for plant tissue culture, greenhouse, controlled environment plant/microbes growth chambers, biochemical analysis and facilities to carry out molecular studies etc. Apart from routine basic equipment's needed for teaching and research, the labs are equipped with state-of-the art instruments like Confocal Microscope, RT-PCR, GC, Zeta Potential Analyzer, Bioreactors etc.
- Modern research: Apart from B.Sc./M.Sc. degree programmes, AIMT enrolls PhD & D.Sc. students and is undertaking research in a wide range of specializations including plant microbe interaction for improving the value of medicinal plants, medicinal mushroom as nutraceutical, micro-nutrient management and crop quality improvement specially oil seed brassica, nanoagriculture, CRISPAR-CAS9 gene editing etc. Total 15 projects were completed during 2015 – 2020 worth Rs. 594.7084 Lakhs Funded by: ICAR, NASF - ICAR, SERB DST (5), DST - Nanomission, DST (Indo-Australia), DST-FIST, DST - SEED, DST SARTHI, SBIRI, DBT - BBSRC (Indo-UK), DBT – BIRAC. The institute is presently running 5 research projects, sponsored by Indian government funding agencies like DST, DSIR, ICAR, CSIR for sum of Rs. 125.8336 Lakhs.



आज़ादी का  
अमृत महोत्सव

DEPARTMENT OF  
BIOTECHNOLOGY



## AMITY INSTITUTE OF MICROBIAL TECHNOLOGY

### Organises DBT Sponsored Workshop on

# ADVANCED MICROSCOPY IN BIOLOGICAL SYSTEMS

October 17-19, 2022



For further details, kindly contact:

E3 BLOCK, 4th Floor, Amity Institute of Microbial Technology (AIMT)  
Amity University Uttar Pradesh, India- 201303 | Email: dbtambs@amity.edu

Registration link: <https://www.amity.edu/nspg/WMBS2022>

Website: <https://www.amity.edu/aims/> • Email: [dbtambs@amity.edu](mailto:dbtambs@amity.edu)



## INTRODUCTION

Microscopy has revolutionized the area of biological sciences via unravelling the complexities of morpho-physiological dynamics of plant, animals and microbes. Starting from a basic light microscope to the advanced level confocal laser microscopy is a highly efficient microscopic technique of choice for researchers interested in better imaging and analysis of cell structure and function. In recent years we have seen the tremendous expansion in the field of microscopy. Hence, it is a very important tool which can greatly enhance the research aspects in biological field. This workshop aims to provide an innovative platform to scholars and researchers to gain knowledge regarding the recent trends in advanced microscopy.

The proposed workshop aims to provide hands on training starting from the preparation of samples, staining, viewing them in various kinds of microscopes. An informative lecture series by knowledgeable speakers with expertise in different kind of microscopy will also be organized.

### The following broad topics will be considered

- Introduction to microscopy
- Application in Research
- Hands on training

This workshop will aim to expose PhD and M.Sc. students to cutting edge technologies and acquire to know-how on various microscopy methods applied in host-microbe and microbe-microbe interactions studies. This workshop will cover lectures by eminent speakers and laboratory work presented by leading experts in the field. Young researchers will be encouraged to learn dos and don'ts to efficiently handle advance microscopes and other related instrumentations.

## SELECTION CRITERIA

This workshop accommodates a maximum of 15 participants. Participants required submitting a small write-up explaining the statement of purpose regarding the importance of microscopy in their research would be essential. The applicants must substantiate the relevance of attending the training program to their current research project or interest.

**Registration link:** <https://www.amity.edu/aims/>

### FOR THE SELECTED CANDIDATES

**Registration Fee:** Rs.3000

**Late Registration Fee:**  
Rs.4000 (applicable after 5 October 2022)

**NOTE:** The course fee does not include boarding and stay. Participants are advised to arrange for boarding and stay well ahead of the training. Registration fee includes lunch with morning and evening tea.

\*AMITY HOSTEL CAN BE AVAILED ON PAID BASIS (Charges- Rs.1000 per day including breakfast and dinner)

## ORGANIZERS



### Patron-in-Chief

Dr. Ashok K. Chauhan  
Founder President RBEF

### PATRONS



**Dr. Atul Chauhan**  
Chancellor, Amity University



**Dr. (Mrs.) Balvinder Shukla**  
Vice-Chancellor, Amity University

### CHIEF ADVISOR



**Prof. Dr. Ajit Varma**  
Group Dy. Vice-Chancellor,  
Amity University

### ADVISOR



**Dr. Amit C. Kharkwal**  
Amity University

### ORGANISING SECRETARY



**Dr. Surbhi Dabral**  
Assistant Professor



**Dr. Monika Gupta**  
Assistant Professor

### ORGANIZING COMMITTEE

- Dr. DK Choudhary
- Dr. Neeraj Shrivastava
- Dr. Swati Tripathi
- Dr. Menaka Devi Salam
- Dr. Naveen Chandra Joshi
- Dr. Shalini Porwal
- Dr. Arti Goel
- Dr. Smitha MS
- Dr. Arti Mishra
- Dr. Manpreet Kaur Attri
- Dr. Jaagrithi Tyagi
- Dr. Anil Chandra
- Mr. Mahendra Singh
- Ms. Tamanna Thapa
- Mr. Vivek Yadav