Azadi Ka Amrit Mahotsav

AMITY UNIVERSITY

ONE DAY FACULTY WORKSHOP ON

Emerging and Established Techniques for Purification and Characterization of Phytoconstituents and Synthetic Molecules

March 14, 2024

Last Date of Registration: 10th March 2024

E-mail: schander1@amity.edu

Registration Fee: Nil

Registration Link: https://www.amity.edu/aipap/EPPM2024/

For More Details: www.amity.edu/aipap/
Contact Dr. Subhash Chander
(Mobile: +91 7597586292)

HURRY UP! Limited Seats!

SERB INDIA

Financially supported by SERB under SSR

AMITY INSTITUTE OF PHYTOCHEMISTRY AND PHYTOMEDICINE (AIP&P)

OBJECTIVE OF THE WORKSHOP

- Equip participants with knowledge of both established and cutting-edge techniques for purification of phytoconstituents and synthetic molecules.
- To enable participants for selection of appropriate characterization techniques through interactive sessions
- To provide an overview of purification techniques of phytoconstituents specially adopted on industrial scales.

Understanding of Established and Cutting-Edge Purification Techniques:

Participants will learn about the well-established purification techniques. This involves gaining an in-depth understanding of classical methods that have been widely used in the field. The workshop places a strong emphasis on cutting-edge advancements in purification methodologies. Participants will learn about the latest technologies and innovative approaches that are shaping the landscape of purification in the fields of pharmaceuticals and chemical sciences.

Rational for appropriate characterization technique selection:

Through interactive sessions, faculty members will engage in discussions and practical exercises aimed at refining their ability to select appropriate characterization techniques. This involves not only theoretical considerations but also practical aspects, allowing faculty participants to make informed decisions based on real-world scenarios. The interactive nature of these sessions encourages collaborative learning among faculty members.

Industrial Perspectives on Purification Techniques:

Faculty participants will gain insights into the industrial applications of purification techniques. Understanding how these processes are adapted and implemented on an industrial scale is crucial for faculty participants to bridge the gap between academic knowledge and industry requirements. This perspective enables them to better guide students in preparing for careers in pharmaceuticals and related industries.

Networking and Collaborations:

Faculty members will have the opportunity to network with peers, experts, and industry professionals. This aspect of the workshop is invaluable for building collaborative relationships, staying informed about emerging trends, and fostering a community of educators dedicated to advancing the field. The connections made during the workshop can lead to collaborative research assignments and shared resources for ongoing professional development.

LEARNING OUTCOME OF THE WORKSHOP

Participants in the workshop will undergo a comprehensive learning experience encompassing various key areas. The interactive sessions are designed to empower them with the latest knowledge and practical skills required for effective teaching and mentorship in the field of purification techniques for phytoconstituents and synthetic molecules.

CHIEF PATRON:

Dr. Ashok K Chauhan
Hon'ble Founder President, RBEF

PATRON:

Dr. Atul Chauhan
Chancellor, Amity University
President, RBEF
CEO, AKC Group of Companies

CO PATRONS

Prof. Dr. Balvinder Shukla
Vice Chancellor
Professor-Entrepreneurship, Leadership & IT
Amity University Uttar Pradesh
Sr. Vice President, RBEF

Dr. W Selvamurthy
President - Amity Science, Technology & Innovation Foundation (ASTIF),
Director General-Amity Directorate of Science & Innovation Chancellor, Amity University Chhattisgarh and
Chair Professor for Life Sciences

CHIEF ADVISORS

Prof. Dr. Bhudev C Das
Chairman & H. G. Khorana Chair Professor
Amity Institute of Molecular Medicine & Stem Cell Research (AIMMSCR)
Acting Head, Amity Institute of Microbial Technology (AIMT),
DEAN, Health & Allied Sciences
Chairman, University Research Council (URC)
Vice President,
Amity Science, Technology & Innovation Foundation(ASTIF),
Amity University Uttar Pradesh

Prof. Dr. Harsha Kharkwal
Director
Amity Institute of Phytochemistry and Phytomedicine
Coordinator
Amity Center for Carbohydrate Research
Amity University Noida

ORGANIZING SECRETARY

Dr. Subhash Chander
Assistant Professor II
Amity Institute of Phytochemistry and Phytomedicine (AIP&P)
Amity University Noida

PROGRAMME OF THE WORKSHOP

Thursday, March 14th, 2024

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

Session 1

10:00 – 10:30 hrs	REGISTRATION
10:30 – 10:50 hrs	WELCOME ADDRESS **Prof. Dr. Bhudev C Das**, DEAN, Health & Allied Sciences, AUUP
10:50 – 11:00 hrs	LIGHTING THE LAMP & SARASWATI VANDANA
11:00 – 11:15 hrs	WELCOME & GLIMPSES OF AUUP, AIP&P AND INTRODUCTION TO DELEGATES **Prof (Dr.) Harsha Kharkwal**, Director, AIP&P
11:15 – 11:25 hrs	INTRODUCTION OF WORKSHOP AND PARTICIPANTS **Dr. Subhash Chander**, Faculty AIP&P
11:25 – 11:35 hrs	ADDRESS BY GUEST OF HONOR **Dr. Madhu Chopra**, Professor and Coordinator Bioinformatics Facility (BIF), Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi
11:35 – 11:45 hrs	NETWORKING HIGH TEA

PROGRAMME OF THE WORKSHOP

Session 2	
11:45 – 12:35 hrs	PLENARY SESSION **Title of Talk:** Purification of Phytoconstituents: Case Studies. **Prof. (Dr.) Vidhu Aeri** Professor of Pharmacognosy & Phytochemistry Former DEAN, School of Pharmaceutical Education & Research, JAMIA HAMDARD
12:35 – 1:15 hrs	KEYNOTE ADDRESS **Title of Talk:** Characterization Techniques of Small Molecules like IR, NMR and Mass **Dr. Madhu Chopra** Professor and Coordinator Bioinformatics Facility (BIF), Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi
1:15 – 2:00 hrs	NETWORKING LUNCH
2:00 – 2:45 hrs	**Invited Talk:** Green Chemistry Approach for Synthesis of Materials **Prof. R.K. Sharma** Honorary Secretary The Royal Society of Chemistry, London North India Section Professor Department of Chemistry, University of Delhi Coordinator Green Chemistry Network Centre
2:45 – 3:30 hrs	**Invited Talk:** Process Development and Troubleshooting of Herbal extractions: Case Studies from Industrial Perspectives. **Dr. M. Hemanth Kumar** Chief Technology Officer Svarn Herbals Pvt. Ltd Technical advisory board member to Canndo pharma Chiang Mai Thailand. United Nations Medical Representative (Geneva)
3:30 – 4:10 hrs	VALEDICTORY FUNCTION & CERTIFICATE DISTRIBUTION followed by Tea
4:10 – 5:00 hrs	VISIT TO SELECTED LABS

ABOUT AMITY INSTITUTE OF PHYTOCHEMISTRY & PHYTOMEDICINE (AIP&P)

Since the inception of the Amity Institute of Phytochemistry & Phytomedicine (AIP&P) in the year 2010, the institute has been striving to provide innovative solutions for some pressing problems of society.

The Institute has received several research grants over the years from govt. funding agencies like SERB, DST, ICAR, NMPB, MoEF and from industries like Willmar Schwabe India Pvt. Ltd., Ebrilive Healthcare Pvt. Ltd. and Sodhani Biotech Pvt. Ltd. etc. AIP&P has more than 60 Scopus/WoS listed research publications and 35 granted patents to its credit over the years in diverse research areas like Biodegradable Plastic, Natural Hair Dye, Herbal Colours, etc.

Currently the institute is running Ph.D. Programme (Full and Part time) in Natural Product Research.

Additionally, students of U.G. and P.G. have completed their dissertation work covering different aspects of Natural Product and applied Carbohydrate Chemistry.

AIP&P being a research and innovation driven institute, it has developed several indigenous technologies focusing on societal benefit like Biodegradable Plastic, Vegetarian Capsules, Herbal Shampoo, Herbal Hair Dye, Herbal Hair Colour, Herbal Sunscreen, Self Defense Spray, Cling Films, Anti-Diarrheal Formulation etc.

The core research areas of the Institute are Natural Product Chemistry, Phytoformulations, Applied Carbohydrate Chemistry, Drug Discovery, Medicinal & Synthetic Chemistry.