JSS ACADEMY OF HIGHER EDUCATION & RESEARCH
(DEEMED TO BE UNIVERSITY) MYSURU

USIC

JSS COLLEGE OF PHARMACY, MYSURU

HANDS-ON WORKSHOP ON

CYTO-ANALYTICAL & IN SILICO TECHNIQUES

IN MODERN DRUG DISCOVERY

Exploring Cellular Systems, Empowering Discovery

NOVEMBER 18 - 20, 2026

Golden Jubilee Digital Theatre, JSS College of Pharmacy
Mysuru-570015, Karnataka, India

ORGANIZED BY

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY
JSS College of Pharmacy
Mysuru

IN ASSOCIATION WITH

DIVISION OF BIOCHEMISTRY
School of Life Sciences, Mysuru

DEPARTMENT OF BIOCHEMISTRY
JSS Medical College, Mysuru

INDIAN PHARMACEUTICAL ASSOCIATION
Karnataka State Branch

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JSS ACADEMY OF HIGHER EDUCATION & RESEARCH (DEEMED TO BE UNIVERSITY) MYSURU

JSS Academy of Higher Education & Research (JSS AHER) Mysuru

08:30 – 09:00 - Registration, 09:00 – 09:30 - Pre- Test
09:30 – 10:15 - Inaugural Function by Chief Guests

18/11/26 : Cell Culture & LC-MS/MS

Time	Session	Speaker
10:15 – 11:15	Cell Culture Fundamentals	Dr. M V S.S T SubbaRao
11:15 – 11:30	Tea Break	
11:30 – 12:45	LC–MS/MS Principles	Dr. Gnanesh Kumar B S
12:45 – 13:30	Lunch Break	
13:30 – 16:30	Hands-on: LC–MS/MS	Dr. Gnanesh Kumar B S
16:30 – 16:45	Tea Break	
16:45 – 17:15	Interactive Session	All Participants

19/11/26: Flow Cytometry

Time	Session	Speaker
09:00 – 10:30	Flow Cytometry Principles	Dr. Vinay Kumar Rao
10:30 – 10:45	Tea Break	
10:45 – 13:00	Hands-on: Sample Prep & Operation	Dr. Komal Kumar J
13:00 – 13:45	Lunch Break	
13:45 – 16:30	Hands-on: Data Analysis & Gating	Dr. Komal Kumar J
16:30 – 16:45	Tea Break	
16:45 – 17:15	Interactive Session	All Participants

20/11/26: Computational Drug Discovery & Systems Biology

Time	Session	Speaker
09:00 – 10:30	ADMET Prediction	Dr. Usharani Dandamudi
10:30 – 10:45	Tea Break	
10:45 – 12:45	Systems Biology Approaches	Dr. Usharani Dandamudi
12:45 – 13:30	Lunch Break	
13:30 – 16:30	Hands-on: Comp. Drug Discovery	Dr. Usharani Dandamudi
16:30 – 17:00	Post Test	
17:00 – 17:30	Valedictory & Certificates	Organizing Committee
17:30 onwards	High Tea	

For Registration Scan the QR Code

JSS ACADEMY OF HIGHER EDUCATION & RESEARCH

JSS Academy of Higher Education & Research (JSS AHER), Mysuru is a premier Deemed-to-be University established under Section 3 of the UGC Act, 1956. Accredited with NAAC A+ + Grade and recognized as a Category-I , JSS AHER has emerged as a leading center for excellence in education, research, innovation, and healthcare. Guided by the vision and leadership of His Holiness Jagadguru Sri Shivarathri Deshikendra Mahaswamiji, Chancellor, along with the university administration, JSS AHER is committed to nurturing highly skilled professionals and researchers through value-based education, state-of-the-art infrastructure, and a strong emphasis on interdisciplinary learning and societal impact.

ABOUT THE DEPARTMENT



Department of Pharmaceutical Chemistry, JSS College of Pharmacy, Mysuru

The Department of Pharmaceutical Chemistry at JSS College of Pharmacy, Mysuru, offers D.Pharm, B.Pharm, Pharm.D, M.Pharm, Ph.D., programmes. Equipped with advanced labs and expert faculty, the department prepares students for careers in pharmaceutical research, industry, and academia.

Division of Biochemistry, School of Life Sciences (SLS), Mysuru

The Division of Biochemistry, School of Life Sciences, Mysuru, offers undergraduate, postgraduate, and doctoral programs featuring a research-driven, NEP-aligned curriculum. Backed by major funding agencies and expert faculty, the division provides modern labs, internships, and fellowships to prepare students for successful careers in global research, industry, and academia.

Department of Biochemistry, JSS Medical College, Mysuru

Recognized by prestigious bodies like VGST, DST-FIST, and ICMR, CEMR features 17 clinician and basic science faculty researching inflammation, cancer, and metabolic diseases. Backed by JSSAHER infrastructure, high-impact publications (average IF of 10.42), and four filed patents, the center secures major funding from national and international agencies including ICMR, DBT, NIH, and DST.

BACKGROUND

Modern drug discovery integrates computational predictions, cytoanalytical techniques, and systems biology to evaluate candidates from molecular targets to complex pathway outcomes. While in silico modeling accelerates candidate identification, experimental approaches such as cell assays, microscopy, and multi-omics analysis are vital to validate cellular interactions, efficacy, and toxicity. To address the lack of practical expertise in combining these fields, this three-day national workshop offers hands-on theoretical and practical training in bridging computational design with experimental cytoanalytical and systems-level validation.

Target Audience

M.Sc., M.Pharm., PhD students intented to work in drug discovery, computational biology, cell biology, and analytical chemistry, faculty members, and industry professionals.

Divine Blessings

HH Jagadguru Sri Shivarathri Deshikendra Mahaswamiji

Jagadguru Sri Veerasimhasana Mahasamsthana Math, Suttur Srikshethra

CHIEF PATRONS

Dr. B Suresh
Pro Chancellor, JSS AHER

Dr. H Basavanagowdappa
Vice Chancellor, JSS AHER

Dr. B Manjunatha
Registrar, JSS AHER

PATRONS

Dr. T M Pramod Kumar
Principal, JSSCPM
JSSAHER, Mysuru

Dr. Narayanappa D
Principal, JSSMC & Hospital
JSSAHER, Mysuru

CONVENERS

Dr. R S Chandan
Associate Professor & Head
Dept. of Pharm. Chemistry, JSSCPM

Dr. Raveesha K A
Dean, Faculty of Life Sciences, Mysuru
JSS AHER

Dr. Akila Prashanth
Professor & Head
Dept. of Biochemistry, JSSMC

ORGANIZING SECRETARY

Dr. Prabitha P
Assistant Professor
Dept. of Pharm. Chemistry
JSSCPM, JSS AHER

Dr. D Guru Kumar
Associate Professor
Div. of Biochemistry,
School of Life Sciences, Mysuru, JSS AHER

Dr. Karthika Paul
Assistant Professor
Dept. of Pharm. Chemistry
JSSCPM, JSS AHER

Dr. M V S S T SubbaRao
Professor,
Dept. of Biochemistry
JSS Medical College, Mysuru, JSS AHER

ABOUT THE WORKSHOP

The workshop aims to provide participants with comprehensive theoretical knowledge and practical exposure to advanced cyto-analytical techniques that are widely employed in modern drug discovery and translational biomedical research. The workshop has been designed to bridge the gap between theoretical understanding and laboratory practice by providing participants with direct exposure to advanced instrumentation and contemporary techniques used in pharmaceutical and biomedical research. The programme will feature eminent speakers from leading academic institutions and the pharmaceutical industry, who will share their expertise on recent advances, emerging technologies, and industrial applications in cytological and analytical research.The curriculum emphasizes real-world workflows, enabling participants to seamlessly translate in silico predictions into reliable in vitro experimental validation. By fostering an interdisciplinary approach, this program equips researchers with the essential technical skills needed to accelerate novel therapeutic discovery.

WORKSHOP HIGHLIGHTS

Module I: In Silico Drug Discovery
Module II: Advanced Analytical Techniques
Module III: Biomedical Data Analytics Module
Module IV: Cell Based Assay and Cytotoxicity Studies
Module V: Emerging Cytoanalytical Technologies

Instructions:

* Participants are encouraged to bring their own laptops for the hands-on training sessions.
* All required software tools and access links will be provided during the sessions.
* No prior programming or coding is required.
* The workshop is designed for beginners and intermediate learners,
* with guided instruction throughout each hands-on module.

RESOURCE PERSONS



Dr. Usharani Dandamudi
Senior Prinicipal Scientist
Department of Food Safety & Analytical Quality Control
Central Food Technological Research Institute,Mysuru



Dr. Gnanesh Kumar B S
Scientist E, CSIR–CFTRI,
Central Food Technological Research Institute, Mysuru



Dr. M V S S T SubbaRao
Professor, CEMR,
JSS Medical College, JSS AHER, Mysuru



Dr. Vinay Kumar Rao
Assistant Professor
Manipal Institute of Regenerative Medicine(MIRM) AB2,
Manipal Academy of Higher Education (MAHE), Bengaluru



Dr. Komal Kumar Javarappa
Assistant Professor and
Translational Scientist, USIC,
JSS AHER, Mysuru

REGISTRATION DETAILS

REGISTRATION FEE

₹ 3,540/-
Three Thousand Five Hundred and Fourty Rupees
(Including GST)
Delegate kit, Certificate, Protocol Handbook
Lunch & Tea will be provided

SCAN & PAY
UPI ID: jsspharmacy@sbi
BHIM UPI
yono SBI SBI Pay
G Pay paytm Pay

LAST DATE TO APPLY
15-11-2026

BANK DETAILS

Account Name	:	JSS Pharmacy College Mysuru Seminar A/c
Account Number	:	43048383657
Branch	:	Shri Shivarathreeshwara Nagar Branch, Mysuru
IFSC	:	SBIN0040547

FILL IN THE ONLINE REGISTRATION FORM

https://forms.gle/NGWwcmor8T6fFo7Y8

Participants will receive the status of information on their registered email id

OUTCOMES

Drug Discovery Expertise: Master core concepts in computational drug design and translational research.
Hands-On Experience: Practice molecular docking, virtual screening, ADMET prediction, and cellular assays.
Analytical Proficiency: Gain skills in advanced bioanalytical tools (e.g., HPLC, UPLC, LC-MS/MS, and spectroscopy).
Data Analysis Skills: Evaluate pharmacokinetics, dose-response models, and flow cytometry data.
Interdisciplinary Integration: Learn to bridge computational predictions with real-world experimental validation.

ORGANIZING COMMITTEE

Dr. G V Pujar, Professor & Vice Principal
Dr. B M Gurupadayya, Professor
Dr. B R Prashantha Kumar, Associate Professor
Dr. Anand Kumar Tengli, Associate Professor
Dr. H Yogish Kumar, Assistant Professor
Dr. Sheshagiri Dixit, Assistant Professor
Dr. Chethan I A, Assistant Professor
Dr. Peddaguravagari Mounika, Assistant Professor
Mr. Durgesh Paresh Bidye, Assistant Professor
Dr. J R Kumar, Course Co-Ordinator & Associate Professor (Div. of Biochemistry)

CONTACT US

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For Registration
Scan the QR Code