



7 - DAY HIGH-END WORKSHOP (KARYASHALA)

on

Hands-on Training on Flow Cytometry for a Comprehensive Understanding of its Usefulness in Basic, Applied & Clinical Research

December 21-27, 2022

Department of Biochemistry, Institute of Science,
BHU, Varanasi

Organized By

Department of Biochemistry, Institute of Science,
Banaras Hindu University, Varanasi - 221005, India

Sponsored By

Science and Engineering Research Board (SERB),
Department of Science and Technology (DST),
Govt. of India, New Delhi

Course Overview

Flow cytometry is an efficient tool for single cell analysis, which is highly preferred in immunological research in the area of Life and Medical Sciences. A flow cytometer can be used to quantify the number of a specific cell population & its functional characteristics, simultaneously from the heterogenous cell population along with other important applications such as identification of apoptotic, necrotic, stem cells, cell cycle analysis etc. This course is designed to thoroughly understand the theory behind the genesis of flow cytometry, its principle and research applications in various areas. This course will cover theoretical & practical learning of this technique with a detailed understanding of instrumental & technical parts. A big emphasis will be made on practical work to acquaint the participants with a-z of this technique so that they could efficiently learn the designing, development & execution of experiments & analysis of results.

Topics To be Covered

- Principle of Flow cytometry
- Understanding the flow cytometer (instrumentation & software)
- Selection of labeled antibodies & panel designing
- Apoptosis Assay
- Cell proliferation and counting
- Surface and intracellular staining
- Clinical applications
- Data Acquisition and Analysis
- Detailed Understanding of Third party analysis software

Eligibility criteria and Registration

- Person of Indian origin.
- Postgraduate (PG) students & Ph.D. scholars, passed or pursuing, in any subjects of Life, Biological, Medical, Chemical, and Pharmaceutical Sciences.
- Applicants are requested to submit a No Objection Certificate from the head of the department/Ph.D. thesis supervisor in the attached prescribed format (Annexure 1).

How to Register

To register please fill out the registration form appended below.

Registration link:

https://docs.google.com/forms/d/e/1FAIpQLScHYyRv6lmxJGiwE9qANieGFO7QMXqWyHvhwxGw2M4Y4A6oQ/viewform?usp=sf_link



You can also send your application directly along with a duly filled/signed NOC*, a hundred-word write-up to strengthen your application along with a brief CV to the email id : flowkaryashala@gmail.com

Last date of registration: Dec. 12, 2022

Notification to selected participants on or before: Dec. 13, 2022.

The shortlisted candidate will be intimated through email.

Registration fee (to be paid after selection)

Ph.D. Scholars: 5000/-, PG Students: 2500/-
Online Transfer: Bank: **State Bank of India, Main Branch, BHU; Ac No. : 41390372976; IFSC code: SBIN0000211**

Bank Draft (in favour of): "Flow Karyashala"

Boarding/lodging (in the university guest houses) and travel allowances (train second class sleeper) to outstation candidates will be provided. Snacks and lunch will also be served during the entire period of the workshop.

**NOC format is linked with google form and also available at www.bhu.ac.in*

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Director, Institute of Science, BHU, Varanasi

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For any queries:

Email : flowkaryashala@gmail.com
Cellular : +91 7318929235; +91 8565029276
Visit : www.bhu.ac.in
https://new.bhu.ac.in/Site/FacultyProfile/1_149?FA000083#faculty-product-tab2

Annexure 1

Endorsement cum No Objection Certificate from the Head of the Department/ Thesis Supervisor (To be given on University /Institute/College letter head)

This is to certify that:

1. Mr. /Mrs. / Dr. ----- is a bonafide student of our University /Institute/College and will assume full responsibility for actively participating in the High-End Workshop titled 'Hands-on Training on Flow Cytometry for a Comprehensive Understanding of its Usefulness in Basic, Applied and Clinical Research' sponsored by SERB-KARYSHALA under the Accelerate Vigyan Scheme, scheduled from 21st to 27th December 2022.
2. The Applicant is a Full-time /part-time student of our University /Institute/College and enrolled/completed in PG/PhD Programme inDepartment.
3. The candidate has secured -----%/CGPA/CPI till date (if applicable).
4. The candidate is currently carrying out research/ projects as a part of his/her course curriculum and has completed the core courses of the program.
5. The University /Institute/College endorses the conduct of the applicant to be of the highest order who bears a good moral character.
6. The University/Institute/College has "No-Objection" for the candidate's participation during the above said period.
7. The candidate if selected for participation shall be duly permitted to attend the workshop in physical mode.

Date:

Place :

Signature and Seal with name
(Head of the Department/ Thesis Supervisor)