Ahmedabad University

RESEARCH FOR LIFE
SUN PHARMA SCIENCE FOUNDATION

A 4-Day Hands-on International Workshop

Unravelling Cell Signalling Pathways for Drug Development

Explore drug action through multiplexed signalling analysis.

Measurement of cell signalling is an important aspect of drug discovery. Increasingly, regulators want to understand the mechanism of action of a drug. Small molecules or antibodies targeting cellular signalling pathways are emerging as highly effective drugs, especially in oncology. Traditionally, cell signalling has been measured using phosphoantibodies against single proteins. However, newer techniques allow multiplexing and thus the ability to measure expression or phosphorylation of multiple proteins from a single sample. This workshop will focus on hands-on training of the participants in the use of such multiplexed techniques. This workshop will include the following modules.

1. **Phosphoflow Flow Cytometry:** Measure 2–3 phosphoproteins in one sample.

2. **Cignal Reporter Assays:** Track NF-κB activation with GFP and flow cytometry.

3. **Analysis of RNA-Seq Data for Deciphering Cell Signalling:** Uncover signalling pathways using DAVID and Cytoscape.

The workshop will provide hands on training to participants and will be conducted over 4 days with each day devoted to a specific technique. Basics of flow cytometry or RNA-seq will also be covered for the benefit early investigators.

LEARN. MEASURE. ANALYSE.

Practical training plus flow cytometry and RNA-Seq fundamentals—ideal for early investigators.

15-18 DECEMBER 2026

9.00 AM - 6.00 PM IST

Room 008,
School of Arts and Sciences
Central Campus

Who Should Attend

PhD students, Post Doctoral Researchers, R&D and QA/QC Professionals

FACULTY

Robert Balderas
VP Biological Sciences, Waters Biosciences

Candida Vaz
Senior Scientist II, Institute for Human Development and Potential (IHDP), A*STAR. Bioinformatician

H Krishnamurthy
Central Imaging and Flow Facility, NCBS

Michael D'Silva
Senior Lead Investigator,
Syngene International

Hemant Agarwal
Director, Flow Cytometry Solutions Pvt. Ltd.

Krishna Swamy
Associate Professor, Ahmedabad University

COURSE COORDINATOR

Vivek Tanavde
Associate Dean (Sciences)
Ahmedabad University

Registration Fees
INR 5000

Registration Deadline
11 December 2026

Click here to register

SCAN TO REGISTER

Registration will be on a first come first serve basis.