



WORKSHOP ON IN-SILICO DRUG DESIGNING USING NETWORK PHARMACOLOGY APPROACH

18TH SEPTEMBER – 19TH SEPTEMBER, 2021

Organized by

Department of Applied Sciences,
Indian Institute of Information Technology Allahabad
Devghat, Jhalwa, Allahabad-211015, U. P. INDIA

ABOUT THE WORKSHOP

The workshop has been designed to provide the theoretical background as well as a hands-on approach to drug designing via network pharmacology approach. The one-drug/one-target/one-disease approach to drug discovery is presently facing many challenges of safety, efficacy, and sustainability. Due to this, there is a paradigm shift in drug discovery from single-component single-target to multi-component multi-target. This shift brings up the Network Pharmacology approach to analyze interactions between a plethora of chemical moieties and a number of biological targets. It tries to exploit the pharmacological mechanism of drug action in the biological network, and helps to find drug targets and enhance the drug efficacy. In-silico network pharmacological approach has facilitated the understanding of drug and diseased targets and help to speed up the drug discovery and development process. Natural products have immense potential for drug discovery because of their rich phytochemistry. Ayurveda, the traditional system of Indian medicine, uses intelligent formulations containing multiple ingredients and multiple bioactive compounds; however, the scientific rationale and mechanisms remain largely unexplored. Network Pharmacology approaches can serve as a valuable tool for evidence-based Ayurveda to understand the medicines' putative actions, indications, and mechanisms.

WHO SHOULD REGISTER?

The workshop will be useful for students looking to enhance their skills in drug designing. The sessions will include hands on activities, theoretical sessions given by eminent speakers, and interactive sessions. The seats are limited. The participant selection will be on first come first serve basis. Selected participants will be intimated via e-mail.

MODULES TO BE COVERED

- Target retrieval
- Network construction
- GO & Pathway analysis

HANDS ON EXPERIENCE

- Cytoscape
- GeneMANIA
- CytoNCA
- ClueGO

EMINENT SPEAKERS



Dr. Lipi Thukral
CSIR-Institute of Genomics
and Integrative Biology



Dr. Ganesh Bagler
IIITD



Prof. Krishna Misra
IIIT Allahabad

TENTATIVE SCHEDULE

Day 1: 18th September, 2021 (Saturday)

Session 1 (10:00 am to 1:00 pm)

10:00 am to 10:30 am

Inauguration

10:30 am to 11:45 am

Talk 1 by Dr. Lipi Thukral

11:45 am to 1:00 pm

Talk 2 by Dr. Ganesh Bagler

Lunch Break (1:00 pm to 3:00 pm)

Session 2 (3:00 pm to 5:00 pm)

3:00 pm to 5:00 pm

Demonstration/Hands-on (Part -1)

Day 2: 19th September, 2021 (Sunday)

Session 1 (10:30 am to 1:00 pm)

10:30 am to 11:45 am

Talk 3 by Prof. Krishna Misra

11:45 am to 1:00 pm

Talk 4

Lunch Break (1:00 pm to 3:00 pm)

Session 2 (3:00 pm to 6:00 pm)

3:00 pm to 5:30 pm

Demonstration/Hands-on (Part- 2)

5:30 pm to 6:00 pm

Valedictory ceremony

VENUE



From the comfort and
safety of your homes

REGISTRATION

Registration Fees

Rs. 500/-

Note: * Registration fees is inclusive of GST (18%).

* No refund will be entertained under any circumstances.

Steps for Registration

Step 1: Make the payment for registration fees through NEFT, IMPS or any UPI payment mode. Account details are given below:

Account name: Indian Institute of Information Technology, Allahabad

Account Number: 30996838478

IFSC Code: SBIN0010891

Bank name: State Bank of India

Branch Name: Jhalwa, Prayagraj

Step 2: Scanned TRANSACTION RECEIPT along with your personal details and payment details to be send through registration form given.

[**Register here**](#)

Last date to register : 17th September 2021

ORGANIZERS

General Chair



Prof. Krishna Misra
IIIT Allahabad

Coordinator



Dr. Sangeeta Singh
IIIT Allahabad

For any query, please mail us at
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