



Date/Day: 27-12-2025, Saturday

Title: Hands-on Training and Expert Talk on Practical Applications of Network Pharmacology Using In Silico Tools.

Objective:

- To understand the basic concept of network pharmacology
- To learn the use of in silico databases and software tools
- To study drug–target–gene–pathway interactions
- To understand multi-target mechanisms of drugs

Program Outcome: PO1, PO3 and PO4.

Details of the Resource Person/Event: Dr. Prashant D. Dongre, Medical Advisor and Clinical Research Professional, Expert in Translational and Network Pharmacology, Ph.D. (Pharmacology), Bombay College of Pharmacy.

Participant Details:

B.Pharmacy Students:76

Faculty: 10

Summary of the Lecture/Activity:

The Department of Pharmacology organized a **hands-on training and expert talk on Network Pharmacology** to introduce students to modern computational approaches used in drug discovery and research. The session was conducted by **Prashant D. Dongre**, who explained the role of network pharmacology in understanding complex diseases and multi-component drug actions.

For demonstration, the Ayurvedic poly-herbal formulation **Chandraprabhavati** was used as a reference drug to illustrate the workflow of network pharmacology studies. Students were introduced to various databases and tools such as **PubChem, ChEMBL, BindingDB, DisGeNET, STRING**, and **Cytoscape** for compound identification, target prediction, protein interaction analysis, and network construction.

Overall, the session helped students understand the workflow of network pharmacology and improved their knowledge of computational tools used in pharmacological research and multi-target drug analysis.

Brochure/Photo Gallery:

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H. K. COLLEGE OF PHARMACY
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INSTITUTION'S INNOVATION COUNCIL
Member of Pharmacy Education Society

(UNDER THE AEGIS OF IQAC)
Scientific Committee
 in Collaboration with
Institution's Innovation Council
 Department Of Pharmacology Organizes

HANDS-ON TRAINING & EXPERT TALK

Speaker: Dr. Prashant D. Dongre

**Medical Advisor & Clinical Research Professional
 Expertise in Translational & Network Pharmacology
 Ph.D. (Pharmacology), Bombay College of Pharmacy**

**Topic: Hands-on Training and Practical Applications of Network
 Pharmacology Using In Silico Tools**

**REGISTER
HERE:**

Saturday 27th December
10 AM to 12 PM
**4th Floor Auditorium,
HKCP, Mumbai**

Dr. Tushar Lokhande (PRINCIPAL)	Mr. Amol More Dr. Madhusudan Saraf (CO- ORDINATOR)
Mr. Amaan Tambu STUDENT COUNCIL (GENERAL SECRETARY)	Mr. Nitesh Gupta STUDENT COUNCIL (SCIENTIFIC HEAD)

VISION: To be recognized as an Institution providing quality education in pharmacy to serve the healthcare sector.





Key Outcome of the Lecture/Activity:

- Students gained basic knowledge of **network pharmacology concepts** and their role in modern drug discovery.
- Students learned the **application of in silico databases and tools** used in pharmacological research.
- Improved understanding of **multi-target mechanisms of poly-herbal formulations** using computational approaches.
- Students became familiar with databases such as **PubChem, ChEMBL, and BindingDB** for compound and target identification.
- Students understood the process of **protein–protein interaction and network construction** using **STRING** and **Cytoscape**.



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Link for social media:

LinkedIn:	https://www.linkedin.com/posts/h-k-college-of-pharmacy-mumbai-303524222_mes-hk-college-of-pharmacy-organized-a-workshop-activity-7441428498541391872-fQ2k?utm_source=share&utm_medium=member_desktop&rcm=ACoAADf2WrMBUFgAeZVznddoMfc3VtpDnyqdS4Y
Facebook:	https://www.facebook.com/photo/?fbid=1414910667315238&set=a.470185965121051
Instagram:	https://www.instagram.com/p/DWLti_hCITB/?utm_source=ig_web_copy_link&igsh=MzRIODBiNWFIZA==

Event Co-ordinator

Mr. Amol More

Dr. M.N. Saraf

IQAC Co-ordinator

Dr. Archana Upadhya

Dr. Tushar Lokhande

Principal

