REPORT OF GUEST/ EXTENSION LECTURE

Title of Guest Lecture (Webinar): In Silico Methods for Drug Discovery

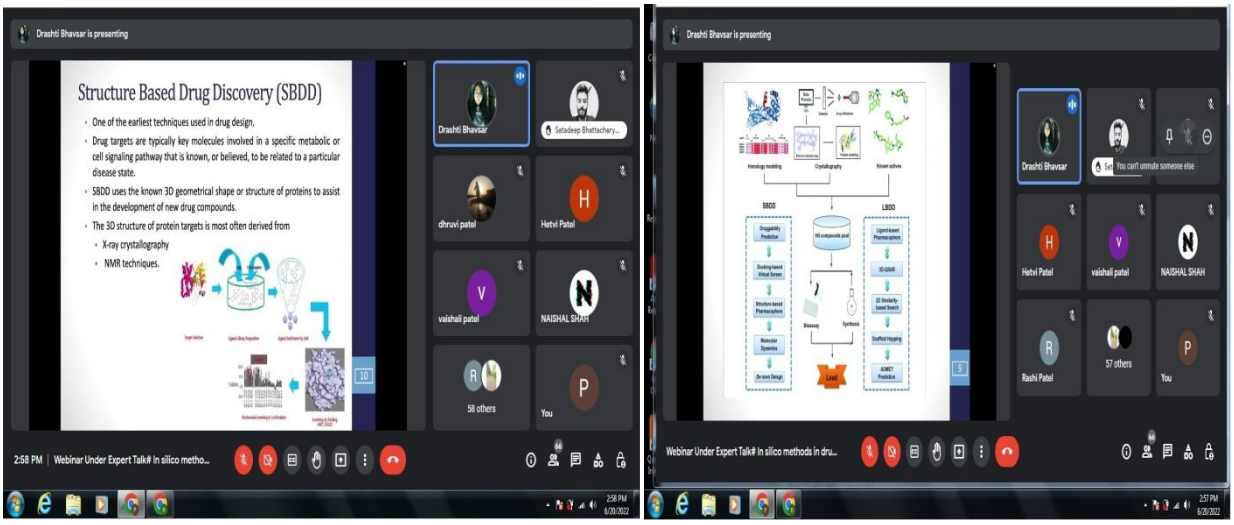
Speaker: Ms Drashti Bhavsar. Sr. Research Associate, Syngene International, Bengaluru.

Date & Venue: 20th June, 2022 on virtual platform through Google meet

No of Participants: 208

Summary Report:

In silico drug discovery methods are able to reduce the time and cost for drug discovery processes. Sophisticated in silico approaches has given a tremendous opportunity to pharmaceutical companies to identify new potential drug targets which in turn affect the success and time of performing clinical trials for discovering new drug targets. Ms. Bhavsar discussed in silico methods for drug discovery process with emphasis on identifying drug targets, where there are genes or proteins associated with specific diseases. Ms. Bhavsar provided a succinct overview of several recent approaches that employ bioinformatics for the systematic characterization of the targets of bioactive compounds. Ms. Bhavsar discussed how in recent times the drug discovery process has shifted to in silico approaches such as homology modeling, protein-ligand interactions, microarrary analysis, vHTS etc. Ms. Bhavsar also mentioned that due to the limitation of throughput, accuracy and cost, experimental techniques cannot be applied widely, therefore, in recent times the drug discovery process. In silico approach has been of great importance to develop fast and accurate target identification and prediction method for the discovery. Ms. Bhavsar also shared importance of various latest software's like they can also be predicted in advance with bioinformatics such as C2- ADME, TOPKAT, CLOGP, DrugMatrix, AbSolv, Bioprint, GastroPlus used in prediction of bioavaibility and bioactivity in drug discovery.



(Ms. Drashti Bhavsar delivered a session on In silico methods in drug discovery-2022)