INTEGRAL UNIVERSITY

Imran Ahmad Siddiqui <imransid@iul.ac.in>

A Brief report on An Online Hands-on Workshop on "SeeSAR- A Drug Design Software" Jointly organized by Faculty of Pharmacy, Integral University and Zastra Innovations.

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Bcc: imransid@iul.ac.in

A Brief Report

on

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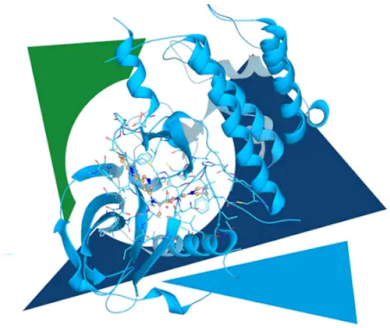

An online hands-on workshop on "**SeeSAR - A Drug Design Software**" was jointly organized by the **Faculty of Pharmacy, Integral University** and **Zastra Innovations** in collaboration with **BioSolveIT** on 1st June 2023. The workshop aimed to familiarize participants with SeeSAR, a 3D desktop modeling platform for drug design developed by BioSolveIT, and its practical applications in the field of Structure-Based and Ligand-Based Drug Design (SBDD and LBDD). The workshop was coordinated by **Dr. Mohemmed Faraz Khan**, Associate Professor from the Faculty of Pharmacy, Integral University. **Ms. Archa S Nair**, an Application Scientist at Zastra Innovations, served as the speaker and instructor for the workshop.

The workshop attracted a restricted number of 30 participants, with 28 faculty members from various departments participating. The attendees included faculty members from the Department of Biosciences, Department of Bioengineering, Department of Chemistry, and Department of Pharmacy.

The workshop sessions were designed to offer a comprehensive learning experience, combining theoretical presentations and hands-on demonstrations of the SeeSAR software. The structure of the sessions was as follows:

1. **Presentation on the Overview of the Scope and Applications of SeeSAR**:

Participants received an in-depth understanding of SeeSAR's capabilities, features, and potential applications in drug design. The presentation covered topics such as virtual screening, compound prioritization, compound evolution, and fragment-based design. Attendees gained insights into how SeeSAR can enhance the drug discovery process and support informed decision-making.

2. **Hands-on Demonstration of SeeSAR:**

The workshop included a practical session where participants engaged directly with the SeeSAR software. Through hands-on exercises, participants navigated the software interface, imported and manipulated compounds, performed virtual screening, analyzed protein-ligand interactions, and evaluated compound properties. This interactive session allowed attendees to gain practical experience and familiarity with SeeSAR's intuitive and visual approach to drug design.

The workshop received positive feedback from the participants, who expressed appreciation for the opportunity to learn about SeeSAR and its practical applications. They commended the comprehensive content of the workshop, which provided both theoretical knowledge and hands-on experience.





The workshop's success can be attributed to the collaboration between the Faculty of Pharmacy, Integral University, and Zastra Innovations, as well as the expertise of the speaker involved. The engaging and interactive nature of the sessions facilitated a deeper understanding of SeeSAR and its potential in drug design.

In conclusion, the Online Hands-on Workshop on "SeeSAR – A Drug Design Software" effectively achieved its objectives of familiarizing participants with SeeSAR and demonstrating its applications in drug design. The restricted number of participants ensured a focused and engaging learning environment, allowing faculty members from various departments to actively participate.

We extend our gratitude to **BioSolveIT** for developing SeeSAR and making it available for this workshop. We also appreciate the support of **Prof. Syed Misbahul Hasan**, Dean, Faculty of Pharmacy and **Prof. Tarique Mahmood Ansari**, Head, Department of Pharmacy, for organizing this enlightening event.

We look forward to organizing future workshops that promote knowledge exchange and innovation in the field of drug design.

Dr. Tarique Mahmood,
Head,
Department of Pharmacy

Prof. (Dr.) Syed Misbahul Hasan,
Dean,
Faculty of Pharmacy