

Master of Science in Analytical and Pharmaceutical Chemistry
Module: Computational Drug Discovery Techniques (MAPC304)
Computer Assisted Learning (CAL) Workshop
Assessment Criteria and Marking Scheme

Assessment 2
CAL Workshop Report (10%)

Topic: Virtual Screening (VS)

Based on the computational drug discovery software application skills (hands-on) gained through facilitated computer-assisted learning (CAL) workshops, upon completion of the workshop the students should submit a CAL workshop report on the application of computational techniques for VS by means of an industrial problem-based/case-based-scenarios.

| Criteria | Excellent (9-10) | Good (8-8.9) | Satisfactory (6-7.9) | Poor (4-5.9) | Weak (0-3.9) | Weightage | Marks |
|------------------------------------|--|---|---|--|---|-----------|-------|
| Content (70%) | Completeness Effective, accurate and adequate, selected computational approach and the presentation of the content is more specific to VS. Methodology All the following tasks are completed in sequential order and presented in the report. 1. Selection of therapeutic area for drug discovery. 2. Selection of computational tool for virtual screening. 3. Validation of the computational tool. 4. Application of virtual screening protocol. 5. Identification of "Hits" (Protein targets/ ligands). Results and discussion | Completeness The content presented are accurate and adequate, however the selected computational approach and content is less specific to VS. Methodology Four of the following tasks are completed in sequential order and presented in the report. 1. Selection of therapeutic area for drug discovery. 2. Selection of computational tool for virtual screening. 3. Validation of the computational tool. 4. Application of virtual screening protocol. 5. Identification of "Hits" (Protein targets/ ligands). Results and discussion | Completeness The content presented is accurate, however selected computational approach is not well supported; some evidence, but usually of a generalised nature. Methodology Three of the following tasks are completed in sequential order and presented in the report. 1. Selection of therapeutic area for drug discovery. 2. Selection of computational tool for virtual screening. 3. Validation of the computational tool. 4. Application of virtual screening protocol. 5. Identification of "Hits" (Protein targets/ ligands). Results and discussion | Completeness The content presented is accurate, however selected computational approach is not well supported; no evidence. Methodology Two of the following tasks are completed in sequential order and presented in the report. 1. Selection of therapeutic area for drug discovery. 2. Selection of computational tool for virtual screening. 3. Validation of the computational tool. 4. Application of virtual screening protocol. 5. Identification of "Hits" (Protein targets/ ligands). Results and discussion | Completeness The content presented is not accurate, and selected computational approach is not valid. Methodology One of the following tasks is completed in sequential order and presented in the report. 1. Selection of therapeutic area for drug discovery. 2. Selection of computational tool for virtual screening. 3. Validation of the computational tool. 4. Application of virtual screening protocol. 5. Identification of "Hits" (Protein targets/ ligands). Results and discussion | X 7 | 70 |

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Student's name: _____ ID No: _____ Cohort: _____

Title of the report: _____

Examiner's name: _____ Signature: _____ Date: _____