Centre of Excellence in Computational Genomics

Internship Modules for Engineering students

M1. Design and development of protocol for detecting alternative spliced regions using RNA seq data in colorectal cancers

M2. Development of database for analysed and curated colorectal cancer exome datasets

M3. Design of decision support tool using AIML for colorectal cancer exome datasets

M4. DFT (Densifty Function Theory) analysis for Covid-19 induced mucormycosis

M5. Modifying and designing a Mutation Visualization (MutVis) tool for visualization of mutational signatures in pathogenic bacteria

M6. Prediction of Protein-Protein Interactions via ESM-1nv

M7. Unlocking Protein Language Models for Drug Discovery with ESM-1nv

M8. Facilitating Protein Design with ProtT5nv

M9. Design of novel drug like candidates using MegamolBART

M10. Predict ADMET properties using MegamolBART

M11. Synteny mapping for mulberry: assigning pseudo chromosomes

M12. A protocol development for Metatranscriptomics

M13 Predicting the likelihood of developing long Covid (PASC) in the indian population

M14. SNP genotyping chip development for Mulberry (Morus indica)

M15. Quantum Computing based peptide folding using Quantum Annealers

M16. Evaluating role of Quantum Bayesian phase difference estimation in peptide folding

M17. Development of protein disorderedness database

M18. Design and Development of novel PROTAC linker compounds

M19. Digitized-counterdiabatic quantum approximate optimization algorithm in molecular docking

M20. Analysis of QTL markers for finding the potential biomarkers for Yield and drought stress

M21. Consensus generation for Mulberry samples

M22. Comparitive genomics of Mulberry

M23. Soil metagenome analysis and finding the potential biofertilizers

M24. Pipeline for the metabolomic profiling for the mulberry samples

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Centre of Excellence in Computational Genomics

Internship Modules for Engineering students

M25.	Novel Polymer Micelles as Carriers to Target Pancreatic Ductal Adenocarcinoma [PDAC]
M26.	Computational Design and Optimization of Antibody-Drug Conjugates: A Virtual Approach to Targeted Cancer Therapy
M27.	Targeting mRNA with Small Molecules: A Promising Strategy for Therapeutic Intervention
M28.	Probiotic Interventions for Enhancing Growth and Development: Mechanisms and Applications
M29.	ML approach for LSD data
M30.	Image processing and the data interpretation on wildlife data using camera traps and other methods.
M31.	ML approach for the real time quality of soil and their benefits to the farmers.
M32.	Biostatistics for the sustainable development goals: Development of mathematical models for the real time data of environment, food, energy, well being
M33.	Develop a smart kitchen system using ML algorithms that effectively detects f ood spoilage
M34.	Developing Mapreduce Algorithms for Next Generation Sequencing Data
M35.	Identifying the Antidiabetic targets using NGS data
M36.	Predicting Protein Secondary structure using a Neural Network.

For Further Information Contact:

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