BIOINFORMATICS-BASED INTERVENTION FOR DRUG DISCOVERY AND DEVELOPMENT OF DATABASE ON MEDICINAL, AROMATIC, ORCHID AND WILD EDIBLE PLANTS
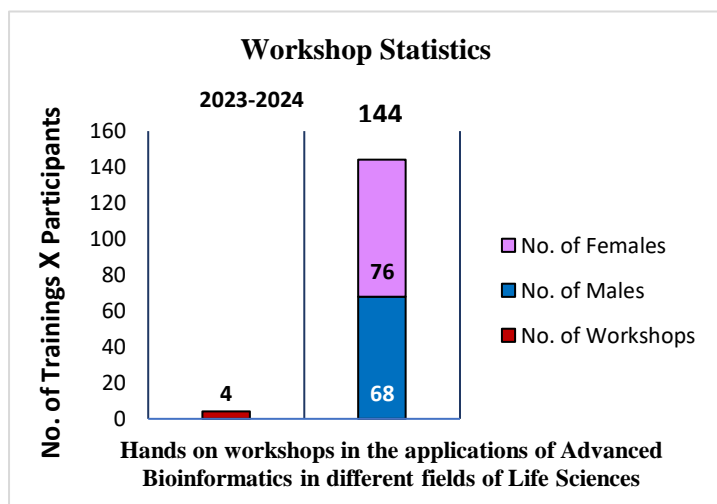
Bioinformatics is an emerging field in the Life Sciences sector which facilitates the integration of computational methods and data with biological data to decipher the role of genetic materials in the biological process. Arunachal Pradesh is a hotspot of biodiversity and is also known for its richness in medicinal, aromatic and other economically important plants. Basically, we are working on three priority area i.e 1) Development Bioresources databases, 2) Systems Biology approach to elucidate the gene regulatory pattern and 3) Computer Aided Drug Designing for discovery of plant-based lead compound.

ON GOING PROJECT

Establishment of Bioinformatics and Computational Biology Centre in Arunachal Pradesh – BIC at Centre for Bioresources and Sustainable Development, Kimin

TECHNICAL ASSISTANCE OFFERED

- The Bioinformatics and Computational Biology Centre at DBT-APSCS&T CoE, Kimin, is equipped with high performance servers and leased-line internet connectivity.
- The centre offers consulting, training, and resources to support both in-house and external researchers in computational biology.
- Training is provided on Bioinformatics and Computational Biology, with a focus on High-Throughput Data Analysis (HTDA) and Computer-Aided Drug Designing (CADD).
- The centre invites final-semester M.Sc./M.Tech. students to apply for internship opportunities.

Workshop Statistics

No. of Trainings X Participants

Hands on workshops in the applications of Advanced Bioinformatics in different fields of Life Sciences

Topics Covered in Workshops