REVA UNIVERSITY

Bengaluru, India

SCHOOL OF APPLIED SCIENCES

Consultancy Services provided at Department of Biotechnology

Service Domains:
Cell Lines, Plants, Microbes, and Bioinformatics

Biochemical and Molecular Biology Services

1. DNA, RNA, Protein extraction, quantification and characterization
2. DNA Fingerprinting Techniques
3. Gene Cloning and Expression
4. Primer Design
5. Column Chromatography
6. Identification and characterization of microbial cultures
7. Phytochemical Extraction and characterization
8. Cytotoxicity studies using in vitro model

Bioinformatics services

- **Next Generation Sequencing and Data Analysis**

  (DNA-Seq, RNA-Seq, ChIP-Seq, Exome-Seq, Denovo-Seq, GBS, RAD-Seq)

- **Microarray and Data Analysis**

  (Affymetrix, Agilent, Illumina)

- **Drug Discovery**

  Disease Identification, Protein/ Gene Selection, Homology Molecular modeling, Protein- protein interactions, Protein Docking, Pharmacophore Analysis, Pharamcokinetic Analysis, Medicinal chemistry, SAR and QSAR Analysis, Pathway Prediction, Clustering Analysis

- **Systems Biology**

  Metabolic network reconstruction, protein-pathway construction, enzyme activity study, Drug Metabolic pathway identification and reconstruction.

- **Bioinformatics Analysis**

  Sequence Alignment, Pair-wise sequence alignment, Multiple-sequence analysis, Phylogenetic analysis, Genome Annotation, Genome Enrichment Analysis, Gene Structure Prediction, Protein Structure Prediction,

- **Data Analytical tools for DNA Fingerprinting**

- **Biostatistical Analysis**

  Clinical Data Analysis, Biological data analysis

  Biological Image Processing,

- **Bioprogramming Services**

  Biological database Development,

  Biological Tools Development

  Algorithms Development

  Pipeline Design for Genomic Sequencing Data Analysis

  Website template Design

- **Biological Data Retrival**

Bioinformatics faculty at REVA University, are highly experienced bioinformaticians with expertise in omics studies. Using our experience in the computational sciences and knowledge we can provide our customers unparalleled services for the analysis of genomics, proteomics and metabolomics data.

Research Services
• Contract Based Research
• Collaborative Based Research
• Support to PhD

Bioinformatics@REVA offers contract based research that provides support to Pharmaceutical, and biotechnology industries. We support services in molecular biology, genomics, proteomics, drug discovery and biostatistical analysis. We provide services to research institutions, universities, government and private organizations on contract basis.

Our core services
1. Phytochemical extraction and characterization
2. Epigenetic analysis
3. Computational drug discovery
4. Microarray Data Analysis
5. Genomic Analysis of sequences using NGS based methods

Service Areas
Human Diseases Plant Diseases Plant physiology
Microbial classification from various resources

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3) Training Programs
Certificate Programs on
• Computational Drug Discovery
• Next Generation Sequencing Data Analysis (RNA-Seq, ChIP-Seq, Exome-Seq, Denovo-seq)
• Microarray Data Analysis
• R Programming of Genomic Data
• Python Programming
• Basic techniques in Animal Cell culture
• Cytotoxicity studies
• RNA and DNA isolation, quantification, cDNA synthesis
• Protein extraction and SDS-PAGE
• Gene expression studies

If you want to conduct a Seminar or Workshop or short-term Training in Bioinformatics, Bio-IT, Next Generation Sequencing, Genomics, etc. at your College/ University/ Conference then feel free to write to us at prashantha.cn@reva.edu.in, damodara.reddyv@reva.edu.in

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