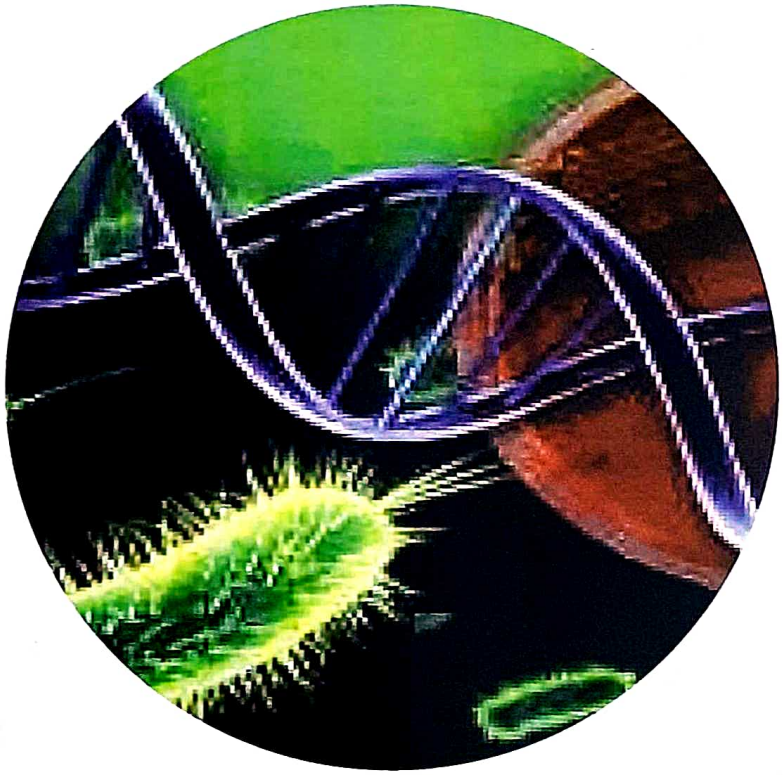
SRI YUVA BIOTECH PVT. LTD.



Offers :

Student Projects,

Training,

Contact Research in Life Sciences

Sri Yuva Biotech is one of the best training institute in Hyderabad .We offer project works for B.Sc, M.Sc, B.Pharmacy, M.Pharmacy, B.Tech and M.Tech students.

We offer project works and Hands on experience will be provided majorly in below courses (Basic and Advanced techniques)

1. Molecular Biology
2. Microbiology
3. Biotechnology
4. Bio-informatics

MOLECULAR BIOLOGY

Courses offered:

Basic Techniques:

- Isolation of Genomic DNA from Different Sources
- Isolation of Plasmid DNA
- Isolation of RNA
- Isolation of enzymes
- SDS-PAGE
- Characterization of DNA/RNA by agarose Gel Electrophoresis

Advanced Techniques:

- Restriction Digestion
- PCR
- Gene Cloning
- DNA Fingerprinting
- Genome Analysis
- Southern Blotting
- Western Blotting
- Purification of enzymes

MICRO BIOLOGY

Courses offered:

Basic Techniques:

- Sterilization Techniques
- Preparation of Media
- Isolation of Microorganisms from different Sources
- Identification and Characterization of industrially important microbes
- Preservation and Maintenance of Microbial cultures
- Studies on the Growth Kinetics of Bacteria
- Antimicrobial Activity tests

Advanced Techniques:

- Molecular identification of microorganisms
- Mutational studies
- Purification & Characterization of Enzymes from Microorganisms
- Isolation of Genomic DNA from Microorganisms
- Isolation of Plasmid DNA from Bacteria
- Isolation of RNA
- Restriction Digestion
- Transformation and Selection of Transformants
- Chromatography Techniques

Industrial Microbiology:

- Isolation, Identification and Maintenance of Industrially important Microorganisms
- Single Cell Protein Production from Microorganisms
- Enzyme production
- Food & Water quality tests
- Isolation of secondary metabolites from Microorganisms

Microbial Biotechnology:

- Production of Single Cell protein from microorganisms
- Purification & characterization of enzymes (Amylase, Protease, Xylanase Lipase, Chitinase etc.).
- Gene cloning
- Genetic transformation
- Agriculture microbiology

Bio-pesticides Production & Formulation

- Biopesticide Production from biocontrol agents.
- Isolation, Production, Preparation/formulation of Bio-pesticides from agriculturally important microorganisms.
- Production/formulation of Bio-pesticide from Pseudomonas fluorescence.
- Production/formulation of Bio-pesticide from Trichoderma viride.

Bio-fertilizers Production & Formulation

- Production and formulation of Biofertilizers from microorganisms (Azatobacter, Rhizobium, Algae).

BIOINFORMATICS

Course offered:

1.Biological Databases and Sequence Analysis:

- Introduction to Bioinformatics
- Molecular Databases
- Primary Databanks, GENEBANK, EMBL, DDBJ
- Secondary Databases, SWISSPORT, PIR, TrEMBL
- PFAM INTERPRO
- Motif Database, PROSITE
- Structural Database (PDB)
- Classification Database(SCOP, CATH)
- Eukaryotic Promoter Database

Sequence Analysis

- Database similarity search
- Pair wise alignment
- Dot Matrix Comparison
- Needleman-Wunsch Algorithm

- Smith Waterman Algorithm
- Local Sequence Alignment
- Global Sequence Alignment
- Multiple Sequence Alignment
- Pattern, Motifs and Profiles
- Primer Designing

2. Genomics And Proteomics

Genomics

- Sequence Alignments and its Applications
- Genome Modelling
- Gene Sequence analysis
- Primer Designi
- SNP Detection and Haplo typing
- Chromosome Mapping and Linkage Analysis
- Computational Assembly of a Genome

Proteomics

- Protein Sequence Analysis
- Approaches for Protein Structure Prediction
- Phylogenetic analysis of Protein Families
- Homology and comparative modeling of protein
- Active site identification

3. Drug Designing And Drug Discovery :

Drug Designing

- Building small molecules
- Molecular Modelling
- Properties of Drug molecules
- Ligand- protein interactions
- Binding Energy calculations
- Energy minimization methods
- Molecular Dynamics and simulation studies
- Ligand based drug designing and Fragment based drug designing

OUR SERVICES

1. Training and project works
2. Guidance to Research scholars in Research and paper publication in journals
3. Providing Lab work space for External registered Ph.D scholars for research
4. Offers publication oriented projects
5. Giving support to project students to participate in poster and abstract submission in National and international seminars and conferences.
6. Contract research work will be done for Antimicrobial activity of compounds, Isolation of DNA, RNA, Poly Acrylamide & Agarose gels and other molecular work (data will be provided with pictures).
7. Postdoctoral fellows and M.Sc with research experience candidates can also submit research projects under Young Scientist, Women Scientist schemes to funding agencies like DST, UGC, SERB , BIRAC and DBT.

SRI YUVA BIOTECH PVT. LTD.

H.No. 2-1-563/2/A/1, 2nd Floor, Opp. Shankarmutt,
Nallakunta, Hyderabad - 500 044. T.S.
Ph: 040-48520199, 9989466625
Web : yuvabiotech.com
E-mail: info@yuvabiotech.com, Lvk.yuvabiotech@gmail.com