SAGAR SHRIRAM ANEKAR
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An innovative & dedicated professional, aiming for challenging assignments in Research and Development/ Teaching with a reputed organization, preferably in the Pharma , Bioinformatics & Biotech industry

SUMMARY

- A budding professional with **M. Tech. (Biotechnology) from Dr. D Y Patil University, Mumbai**
- Completed project from Mitcon Institute of Biotechnology and Pharmaceutical Centre, Pune on **Dengue Serotype and Experimental Drug Interaction**
- Completed project from Vasantdada Sugar Institute, Pune on **Genetic Variability In Mutated Population of Sugarcane Clones Through DNA Markers**
- Sound knowledge of **Biotechnology, Bioinformatics and Database Development**
- Well versed with the subjects like Bioinformatics, Structure Bioinformatics, Genetics, Microbiology, Molecular Biology, Biochemistry Ability in handling multiple priorities with a bias for action and a genuine interest in personal & professional development
- Adept in grasping new concepts quickly and utilizing the same in a productive manner
- Possess sound analytical, interpersonal and communication skills

ACADEMIC DETAILS

2016   M. Tech. (Biotechnology) from Dr. D. Y. Patil University, Mumbai
2011   B. Tech. (Bioinformatics) from Dr. D. Y. Patil University, Pune

TECHNICAL PURVIEW

IT SKILLS:
  o MS-Office (Word, Excel & PowerPoint) and Internet Applications ,MS-CIT
  o Operating System: Windows NT / XP, Linux
  o Languages: C, Data Structure ,C++, PERL, SQL, Python

BIOINFORMATICS TOOLS:
Multi Module Package: Molecular Operational Environment
WorkBench: SDSC Workbench
Visualization Tools: Rasmol, Pymol, Cn3D, MolMol and SPDBV
Sequence Analysis Tools: BLAST, FASTA, EMBOSS and Clustal Packages
Structure Prediction Tools: Protein Explorer, ISIS, ChemDraw and ACDChemSketch
Docking Tools: MOE, AUTODOCK
Molecular Modelling Tools: MODELLER
Validation Server: Quantum, HEX
Active Site Prediction: PASS/LIGSITE
Next Generation Sequencing: Usegalaxy SAM, BAM, GATK, Picard
 Primer design: Primer3
Data Analysis software: PLA, GraphPad Prism, Minitab
BioMedical Databases: UMLS, Snomed, PubMed, SNP, GWAS, KEGG, OMIM, NCBI
Chemoinformatics Tools: ChemSketch/MarvinSketch, MarvinBin
Moleculer biology analysis tool: Sequncher,Vector NTi
Data mining concepts, Ontologies

Wet Laboratory Skills:
Microbiology: Media Preparation, Plating Techniques, Microbial Isolation
Molecular techniques: Native & SDS Poly-acrylamide gel electrophoresis analysis,spectroscopy technique,
Genomic DNA & Plasmid DNA isolation,
Polymerase Chain Reaction
Enzyme-Linked Immunosorbent Assay (ELISA),
Plant Tissue culture techniques: Callus culture and apical meristem culture

WORK EXPERIENCE

Assistant Professor
Progressive Education Society's
Modern College of Arts, Commerce and Science College, Ganeshkhind , Pune.
From December 2021 to till

Assistant Professor
MGM College of Agricultural Biotechnology,Gandheli,Aurangabad.
From August 2021 to November 2021 **(visiting faculty)**

Assistant Professor
Rajlaxmi Foundation's
College of Agricultural Biotechnology,Madadgaon,Ahmednagar.
From June 2019 to July 2021

Assistant Professor
Progressive Education Society's
Modern College of Agriculture Biotechnology, Paud, Pune.
From June 2016 to June 2018**(visiting faculty)**
From July 2018 to May 2019 **(Regular faculty)**
Knowledge of Biotechnology, Bioinformatics and computer subjects
Conducting course classes regularly and properly and provide study materials to the students
Working as Lab In-charge and set up and arrange laboratory
Guided student on following project
(1.Production of biodegradable plastic copolymer by microbe Halomonas campisalis MCM B-1027 using
Agro-wastes.
2. Production and efficacy testing of an antibacterial formulation to control bacterial blight in pomegranate.
3. Antibacterial activity and phytochemical screening of pomegranate peel against bacterial wilt of tomato.
4. Evaluation of enzyme activities of superoxide dismutase, catalase and peroxidase in sugarcane salt tolerant mutant clones)

ACADEMIC PROJECT

B.Tech Bioinformatics Project details
Title: **Dengue Serotype and Experimental Drug Interaction**
Organization: Mitcon Institute of Biotechnology and Pharmaceutical Centre, Pune
Duration: 6 months (December 2010–May 2011)
Description: There are no vaccines for dengue fever for all four serotypes. At the same time   experimental drugs clinical trials going on for four serotype separately. In this project we searched common target molecule on four serotype by making database of all common molecules present on dengue serotypes. After we do docking with experimental drug ligand and find best drug which act on common molecules present on all four serotypes. Its gives idea how common drug can act on all serotypes and inhibit growth of dengue virus.

M.Tech Biotechnology Project details
Title: **Genetic Variability in Mutated Population of Sugarcane Clones through DNA Markers**
Organization: Vasantdada Sugar Institute, Manjari, Pune
Duration: 6 months (December 2015-May 2016)
Description: To increase sugar content, virus tolerant capacity, less amount of water requirement produce new varieties through gamma radiation. Cultivate new varieties and check genetic variability of new varieties with their parent plant through DNA Markers using PCR technique.

CERTIFICATION

- Certification in Bioinformatics from Mitcon, Pune in June 2008
- Certification in SAS programming from Cytel, Pune in October 2014
- Attained Seminar on 'Innovation in Biotechnology', D.Y. Patil University, Navi-Mumbai.
- Radio Talk- Radio talk on the topic 'Use of Information Technology in Agriculture' at Ahmednagar A.I.R. Akashwani on 28th September 2019
- Deliver Guest Lecture at College of Agricultural Biotechnology, Loni, Ahmednagar on Information and communication Technology and Agricultural Informatics on 2nd October 2019

EXTRACURRICULAR ACTIVITIES / OTHER ACCOLADES

- Took part in various cultural and technical events organized in institute
- Participated in stage performances, chess competition
- Team member of cricket, kabbadi , kho-kho, badminton team