<u>RESUME</u>

PADAKANDLA TEJASRI

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CAREER OBJECTIVE

I would like to put my learning into practice, yield the best of my potential and be the integral resource to the organization by continuously enhancing my potential and skills. I look forward for a long-term win-win situation where in, to become a successful professional in the field of my work my knowledge would be complemented with experience.

ACADEMIC CREDENTIALS

Course	Institute	Year of completion	Percentage/CGPA
M.Sc Life Science	Bangalore university Bangalore	2021	8.5 CGPA (pursuing final sem)
B.sc (M.B.C) Microbiology, Biochemistry Chemistry	PNC & KR DegreeCollege, Narasaraopet	2019	8.1 CGPA
Intermediate (Bi.P.C)	Sri chaitanya Jr. college Guntur	2015	93%
Secondary Education (SSC)	Sindhu High School Narasaraopet.	2013	8.8

EXAMS CLEARD

- Andhra Pradesh state eligibility test (**APSET-2020**) which was held in 2020

CERTIFICATES

- Certificate of participation in the one day workshop on "**Artificial intelligence in drug discovery** " organized by CSIR-NEIST, jorhat.
- Certificate of training in **CSIR-IIM research and training programme , Jammu -2021**

AREAS OF INTREST

- Clinical research
- Teaching and education
- Bioinformatics
- Drug designing
- Industrial biotechnology
- Industrial microbiology
- Biochemical techniques
- rDNA technology

SKILLS

- **Biochemistry and Immunological techniques**- Basic chromatographic techniques, calorimetric and spectrophotometric techniques, centrifugation Antigen and Antibody Interaction, ELISA
- **Microbial techniques**- Culture And Isolation Of Micro-Organisms, serial dilution, Spreading, Pouring, Streaking, Gram's Staining, Microbial Fermentation Techniques In Industrial Scale etc.
- **Molecular Biology and recombinant DNA technology**- DNA isolation, Artificial seed production, SDS-PAGE, Restriction Digestion, Cloning, Transformation, Agarose Gel Electrophoresis, western blotting etc.
- **Bioinformatics**-Databases like NCBI, RCSB PDB, PubChem, PubMed, BLAST, FASTA ,MSA, pair wise alignment phylogenetic analysis, primer design, Softwares such as , RasMol, ExPASy, UCSF Chimera, online SMILES, PATCH DOCK , CB-DOCK, iCn3d, Swiss ADME etc.
- **Computer skills** including proficiency in use of Microsoft word,excel,power point.
- Strong written and verbal communication skills including good command in presentation and documentation.
- Literature survey

INTERNSHIP/TRAINING

- Got shortlisted in **CSIR-IIM (Indian Institute Of Integrative Medicine) Research &Training Programme-2021**, Jammu.

- Duration -2 months

- Trained under – Dr. Saurabh Saran , principal scientist , Fermentation and Microbial Biotechnology Division.

WORKSHOP AND CONFERENCE

- Participated in 3-days workshop conducted by CSIR-NEIST –"**INDIAN CONFERENCE ON BIOINFORMATICS** (InBix-2021).

- Participated in **One week workshop-online (karyashala)** was organized jointly by fermentation, microbial biotechnology division & IIIM-Technology Business Incubator,CSIR-IIIM ,Jammu under SERBs Accelerate Vigyan karyashala(workshop) Programme.

- Been a part in online **workshop on research methodology & scientific writing**

PROJECT/DESSERTATION

EFFICACY OF HOMEOPATHIC MEDICINE IN THE TREATMENT OF RHEUMATOID ARTHRITIS

➢ **ABSTRACT**

Rheumatoid arthritis (RA) is an autoimmune chronic inflammatory disorder. Disease progression is indicated by invasion and damage of the cartilage and bone of the affected joint by the inflamed synovium. Conventional treatment includes nonsteroidal anti-inflammatory drugs (NSAIDS), disease modifying antirheumatic drugs (DMARDS) and glucocorticoids. However, long term usage of these drugs results in adverse effects, leading to the continuous search for newer and safer drugs. Alternative medicine provides another approach for treatment of RA. The homeopathic remedy Rhus toxicodendron (Rhus tox) derived from Toxicodendron pubescensis used as an anti-inflammatory and analgesic to treat several symptoms of RA. In the present study, the molecular basis for the anti-inflammatory/analgesic properties of the ethanolic extract of Rhus Tox has been identified as urushiol. Molecular docking of urushiol with enzymes that induce inflammation, RH factor and citrullinated peptides has been carried out. A comparative analysis of urushiol vs allopathic NSAIDs and DMARDs clearly shows the superiority of the former, making it an attractive molecule to be considered as a standard treatment for RA.

TECHNOLOGIES USED IN PROJECT :

- Bioinformatics databases

- PATCHDOCK, CB DOCK

- UCSF Chimera

- iCn3D

- Swiss-ADME

PERSONAL TRAITS

- Can work individually or within a team with minimum supervision.

- Sincere and self confident with positive attitude

- Have required grasping ability and can implement quickly.

- Good communication skills and hard working.

- Good interpersonal skills, Quick adaptability to any environment

- Strong analytical, problem solving, organizational ability.

- Zeal to learn

- Capability of understanding and implementing modern techniques quickly.

PERSONAL PROFILE

Date of birth	:	12th AUG 1998
Father's name	:	P. Srinivasa Chari
Nationality	:	Indian
Gender	:	Female
Languages Known	:	Telugu, English, kannada and Hindi.

DECLARATION

I hereby declare that the information given in the above application is true to the best of my knowledge.

(P.TEJASRI)