

Curriculum Vitae

G. JYOTHIRMAI

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Objective:

Looking for a mutually beneficial long-term career path with a prospective organization.

Professional summary:

Jyothirmai has profound experience in Life sciences. Several roles were played during the career path of 7+ years, as – **Office coordinator, Andrologist, Embryologist, Junior Research Fellow, Senior Research Fellow, Technical Assistant, Project Assistant**. Sound understanding of the Techniques and instruments in fields of Genetic Engineering, Biometrics, Immunology & Virology.

- Independent & self-motivated, having strong focus on providing optimized solutions. Always looking forward to keeping the learning curve steep and utilize the same for mutual interests.
- Work effectively in a team environment, providing knowledge transfer and have strong leadership skills.
- Strong understanding of techniques/tools/methodologies in the fields of Research & Development, Quality Control & Quality Assurance.
- Jyothirmai can independently handle the project throughout its cycle depending on the type and nature of the assignment.

Duration		Organization	Project
From	To		
Nov 2022	Till date	Office co coordinator	TATA Institute of Genetic studies, Bangalore
Jan 2021	Oct 2022	Online Teacher	
July 2021	Dec 2021	Nova IVF	Andrologist
June 2019	June 2021	Microbiologist	MSN labs, Hyderabad
Sep 2016	Jan 2017	University of Southampton, UK	Population genetics of Molluscs <i>Gibbula Umbilicalis</i> and <i>Gibbula Pennanti</i>
Apr 2011	Feb 2012	Regional Agricultural Research Station, Nandyal, Andhra Pradesh	Heat Tolerant Chick pea
Feb 2008	Apr 2011	Regional Agricultural Research Station, Nandyal, Andhra Pradesh	Hybridization and selection to evolve superior chickpea varieties (Kabuli and Desi)
Apr 2007	Feb 2008	Regional Agricultural Research Station, Nandyal, Andhra Pradesh	Development of Regeneration protocols in chickpea and Molecular Characterization of chickpea genotypes

Education:

- Master of Science – Virology: 2005-2007, Sri Venkateswara University with **67%**.
- Bachelor of Science – Biotechnology: 2001-2004, Sri Krishnadevaraya University with **64%**.

Details:**Tata Institute of Genetic Studies, Bangalore**

Duration: Nov 2022- Till date

Role: Office coordinator

Responsibilities:

- Hands on experience of Drosophila genetics.
- Host- parasitoid interactions Leptopilina boulardi and Drosophila melanogaster.
- Handled Dissections of testis.
- Assigned projects to administrative staff while boosting office productivity and streamlining processes.
- Ensured efficient and accurate database updates for client account data.
- Provided dedicated, dependable support to project managers in tracking milestones, aiding continued progress towards project deadlines.

Online teacher

Duration: January 2022-October 2022

Role: Teacher

Responsibilities:

- Established clear objectives for all lessons, units and projects to achieve universal success.
- Designed presentations, visual aids and worksheets to enhance learning experience.
- Monitored progress through classwork, course work and project marking to provide extra support for struggling students.
- Provided positive feedback to instill confidence in students.

Nova IVF

Duration: July 2021-Dec 2021

Role: Andrologist

Responsibilities:

- Carrying out various protocols and procedures, including lab aspects of Semen analysis & evaluation, sperm survival test, semen preparation for Intracytoplasmic Sperm Injection.

- Involved in In-vitro Fertilization and Intrauterine Insemination using Swim-up method and Density Gradient method, sperm cryopreservation and thawing, DNA damage assessment in spermatozoa, management of donor sperm cryobank and quality control.
- Performing In vitro fertilization (IVF) lab sterile techniques, media preparation for IVF and ICSI procedures (with and without oil overlay).
- Involved in a mélange of activities such as conducting a study of Andrology including Semen analysis (sperm concentration, motility and morphology), Semen cryopreservation and Semen preparation for IUI, IVF and ICSI.
- Studied Embryology including Oocyte screening, ICSI procedure, Insemination of oocytes via conventional IVF, Vitrification/thawing of oocytes and embryos and Embryo transfer techniques.
- Extensively involved in preparing culture dishes for embryological procedures.
- Responsible for arranging an inverted microscope and micromanipulator for ICSI.
- Involved in preliminary counselling and patient registration.
- Maintained patient records and assured quality control of the lab.
- Trained in all aspects of Assisted Reproductive Technology and Clinical Embryology.

MSN Labs, Hyderabad

Duration: June 2019-June 2021

Role: Microbiologist

Responsibilities:

- Culture handling
- Sterility Testing
- Bacterial endotoxin Test Microbial Method suitability (sterility and BET)
- Water testing Media preparation and sterilization Environmental monitoring in aseptic areas
- Microbial limit testing and method development and validation in finished products and API.
- Preparation and execution of SOPs.
- Analytical method validation protocol and reports.
- Preparation and execution of documents related to QMS.

University of Southampton, UK

Duration : Sep 2016 – Jan 2017

Role : Research helper

Instruments	PCR, centrifuge, Nano spectrophotometer, PH meter, Laminar air flow
Techniques	Isolation of DNA, Spectrophotometry

Responsibilities:

- "Contrasting genetic structure of sympatric congeneric gastropods: Do differences in habitat preference abundance and distribution matter" at National oceanography centre, UK (2016-2017).
- Isolation of DNA from CTAB method.
- Worked on Microsatellites DNA.
- Study of Gene mapping using software's like DNA. SP.5.10, Bio edit, Fig Tree V.14.2, Tracer.

Regional Agricultural Research Station, Nandyal

Duration : Apr 2011 – Feb 2012
Role : Senior Research Fellow

Instruments	Electrophoresis, Centrifuge
Techniques	Agarose gel electrophoresis, SDS-PAGE, Breeding experiments

Responsibilities:

- Worked on Chickpea varieties.
- Isolation of DNA from CTAB method
- Isolation of protein from seeds using chloroform (Desi, Kabuli).
- Crossing of F1 plants using breeding Techniques.
- Collection of Physical data.
- Evaluating existing chickpea germplasm for resistance to dry root rot and wilt.
- Screening of chickpea germplasm for Dry root rot and Fusarium wilt.

Regional Agricultural Research Station, Nandyal

Duration : Feb 2008 – Apr 2011
Role : Senior Technical Assistant

Instruments	Electrophoresis, Tissue culture
Techniques	SDS PAGE, M.S Media.

Responsibilities:

- Isolation of protein from different varieties of Chickpea (viz JG-11, ICCV-10, Annigiri).
- Maintenance of Germplasm.

- Collection of physical data.
- Identification of molecular markers linked and mapping.

Regional Agricultural Research Station, Nandyal

Duration : Apr 2007 – Feb 2008

Role : Project Assistant

Instruments	PCR, Spectrophotometry, Tissue culture
Techniques	

Responsibilities:

- Preparation of MS media
- Preparation of standardized protocols for tissue culture experiments.
- Evaluating the graphs by dendogram.

Publications

- ❖ Abstract on **Genetic divergence studies in chickpea in scarce rainfall zone of Andhra Pradesh** at Agricultural Research Station, Adilabad (October 19-21, 2008).
Page No.: 72
- ❖ Paper on **Genetic divergence studies in chickpea (Cicer arietinum L.) under irrigated and rain fed conditions in scarce rainfall zone of Andhra Pradesh** at Indian Institute of Pulses Research, Kanpur, India
Page No.: 150
- ❖ Paper on **Genetic variability for drought tolerance and yield traits in chickpea** at Indian Institute of Pulses Research, Kanpur, 2011 India.
Vol-24 (1):
Page No.: 33-35
- ❖ Abstract on **Stability of chickpea genotypes in scarce rainfall zone of Andhra Pradesh** at National seminar on Contemporary Approaches to crop Improvement UAS, Bangalore April 22-23, 2011
Page No.: 233
- ❖ Paper on **Genetic studies on drought tolerance attributes in Chickpea, Cicer arietinum L.** Published at Indian Society of Pulses Research and Development (ISPRD) India
Vol-25(2) 2012
Page No.: 94-96.
- ❖ Paper on **Studies on genetic diversity in chickpea utilizing morphological and total seed protein markers published in ARCC JOURNAL legume Research 39 (2) 2016 pg 323-325.**

Academic Project: Prevalence of ROTAVIRUS infection among infants and children

The project mainly focuses on the study of **ROTAVIRUS** infection among infants and children.

Nearly every child in the world is infected with rotavirus at least once by the age of five. ROTAVIRUS belongs to Reoviridae family. Rota virus causes diarrhea, gastroenteritis, abdominal cramps, sunken eyes, dry lips tongue in infants and children.

Group: Group III (dsRNA)

Order: Unassigned

Family: Reoviridae

Subfamily: Sedoreovirinae

Genus: Rotavirus

Type species: Rotavirus A

Species: Rotavirus A, B, C, D, E, F G & H

The project was done in the **Govt. General Hospital in department of Pediatrics at Kurnool Medical College, Kurnool.**

- Studies conclude that the urban area population contains 12.5% and rural area contains 26.9% of the entire population.
- Recommend for recognition at the early state of vaccination.
- The development of drug which is more immunogenic, safe, effective and inexpensive - that can provide protective immunity against rotavirus infection is needed

Responsibilities:

- Sample collection and storage.
- Study of patients past medical history and analysis of current by latex slide agglutination test.
- Preparation of reports for the study.

Microbiology Tests:

- Isolation and identification of microorganisms from water, air and soil.
- Slide culture Technique.
- Staining Techniques.
- Estimation of fungal and bacterial growth using Phenol coefficient test.

Techniques and Instrumentation:

Genetic Engineering : Nucleic acids isolation.

Biochemical Techniques: Protein isolation, Estimations, Chromatographic Techniques, Centrifugation, Agarose Gel Electrophoresis, SDS PAGE, spectrophotometer.

Immunology & Medical: Blood typing, Serological tests, ELISA Tests, PCR

Virology Tests: Cultivation of Viruses in embryonated eggs, SAP Transmission of viruses, Collection, filtration and Preservation of calf serum.

Personal Details

Name : Gottivedu Jyothirmai

D.O.B : 14 Nov 1983

Marital Status : Married

Spouse : H. Srihari Rao

Nationality : Indian

Passport : L7893030, Valid till – 2024

Address : Flat no:103, KSR Vashihta Apartments,
Bhagyanagar phase 3, Kukatpally
Hyderabad (TS) – 500072.

References

- **Dr. Chris Anthony** - Emeritus Professor of Biochemistry, Centre for Biological Sciences,
University of Southampton, UK
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Website: <http://www.chris-anthony.co.uk/>
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