**Gopi Yalavarthi**

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**Career objectives:**

Dedicated Animal Science student with robust veterinary experience and strong administrative skills, eager to contribute to the Quality Assurance Program at the Connecticut Veterinary Medical Diagnostic Laboratory.

**Current position: 2022 - 2024**

M.S in Animal Science – University of Connecticut (UConn),

Graduate Research Assistant - University of Connecticut

Graduate Teaching Assistant - University of Connecticut

**Educational background: 2014 - 2019**

B.V. Sc & A.H, Bachelor of Veterinary Science and Animal Husbandry (Equivalent to DVM)

College of Veterinary Science and animal husbandry, Mhow.

Nanaji Deshmukh veterinary science university, Jabalpur, INDIA.

**Current research work:**

**Currently working on equine gut microbiome in UConn, Animal Science Department**

1. Identifying a role for the gut microbiome in mediating host response to parasitic infections and overall health could eventually result in effective preventive and control strategies in horses.
2. Molecular detection of *Strongyloides* species present in New England, USA.
3. Detection of parasitic infection on the basis of quantity of different cytokines in the circulation.

**Past research experience:**

I was involved in two research works in department of veterinary public health, Gannavaram, India.

1. Prevalence of Beta lactamase producing Shiga Toxigenic E. coli in milk & milk byproducts and diarrheal samples.
2. Prevalence of Aeromonas hydrophila and Bacillus Cereus in different meats.

**Internship:** 06/10/2023 – 08/11/2023 (summer)

**Biomere Biomedical Research Models, Inc. Massachusetts – USA.**

* Handling of NHP’s and veterinary inspection.
* Shadowing of PKPD studies, NHP necropsies, Anesthesia monitoring.
* Served as a Research Associate Level 1.
* Engaged in research involving various laboratory animals and non-human primates (NHPs).

**Relevant scientific skills**

**Molecular techniques:** RNA isolation, purification, DNA extraction, PCR (q-PCR), RT PCR, gene sequencing, gene expression analysis, sanger sequencing, gel electrophoresis, western blotting, ELISA.

**Microbiology:** Flow cytometry, antimicrobial susceptibility tests, bacterial identification, media preparation, culturing, and isolation of microorganisms.

**Cell culture:** Mammalian cell culture**,** cell line establishment, cell authentication and quality control, cryopreservation.

**Data analysis:** Proficient in R language for statistical modeling, data analysis, and visualization.

**Computer skills:** MS Office (Word, Excel, PowerPoint), Adobe photoshop.

**Limited proficiency:**

* Electron Microscopy, Immunoelectrophoresis, radioimmunoassay, Next-Generation Sequencing (NGS), Bioinformatics Software.
* Studying sequence-based microbial community analysis course, gaining expertise in analyzing and interpreting microbiome data to understand microbial diversity and interactions in various environments.

**Professional work experience:**

* Veterinary Officer, Sangam Milk Producers Company Limited, August 2019 - July 2022.
* Special Officer - Vaccine Production & Health Enhancement - July 2019.
* Worked on various projects related to infectious diseases, immunity, and vaccine development - June - 2019
* Collaborate with fellow students and faculty members on research and academic projects.

**Research grant proposals:**

* Impact of a chamomile dried flowers feed additive on stress levels, behavior, and alterations in the gut microbiome in horses in training.
* Cross-talk between gut microbiome, hormones, and metabolic parameters across different seasons in equine.
* Impact of a chamomile dried flower feed additive on stress levels and alterations in the gut microbiome in pregnant and working horses.

**Publication:** (under review)

* Prevalence of Beta lactamase producing Shiga Toxigenic E. coli in milk & milk byproducts and diarrheal samples.

**Awards:**

* Top 5 finalist for the 2023 Lallemand Forward Scholarship (USA and Canada).
* Best veterinary practitioner of the year - 2021.
* IPA (Indian Pharmaceutical Association) fellowship - 2018.
* 1st prize in National E - Quiz competition on microscopic anatomy - Mathura University - 2016.

**Workshops - training programs and webinars attended**

* Introduction to Bioinformatics Tools for Life Science Research- conducted by BRTC, Trivandrum during 14th-15th January 2019.
* Recent developments in diagnostics with special reference to detection of the Zoonotic pathogens- conducted by Nagpur Veterinary College on 25th feb, 2019.
* Participated in the World Milk Day Quiz and Workshop - 2020 Organized by Department of Microbiology, Vivekananda College of Arts and Sciences for Women, Tiruchengode - 637205, Tamilnadu, India.
* “An Insight to Research Proposals, Statistical Techniques and Intellectual Property Rights” national workshop organized by College of Veterinary Science and Animal Husbandry, Mhow from 26 to 28 June 2020.
* Participated in National Webinar on Zoonoses organized on the occasion of World Zoonoses Day - 2020, from 1st to 7th July 2020 organized jointly by Veterinary College Hassan & Hassan Veterinary College Alumni Association.
* Participated in two days national webinar on Covid -19: Immunopathology, Clinical Manifestations and Therapeutic Measurements conducted on 30th September and 1st October 2020.

**Licenses and memberships:**

* Veterinary Council of India.
* Andhra Pradesh Veterinary Association.
* Arabian Horse Association.
* Poultry Science Association.
* American Quarter Horse Association.

**Academic services, social activities and achievements:**

* Treasurer - Graduate student senate, University of Connecticut, 2023-2024.
* University of Connecticut budget committee – 2023 – 24.
* UConn Graduate student senate financial committee chair – 2023 – 24.
* UConn- ISAB member (ISSS student advisory board) – 2023 – 24.
* Student activity and service fee advisory committee (SASFAC) – Grad students’ representative – 2023 – 24.
* Completed NCC ‘C' and ‘B' certificate with' A' grade, also hold the rank of under officer in 2 MP R&V SQN, Mhow.
* As an equestrian, achieved gold medal in republic day camp (RDC) 2018, in Delhi and got 3 gold and 2 silver and 1 bronze medal in national level competition held in Indore and participated in PRIME MINISTER REALLY on horseback.
* An active member of ROTRACT club organization, Mhow joined in 2016 and appointed as director in 2017-18 and joint secretary in 2018-19.
* Participated in Connecticut horse symposium – 2023.
* Poster presentation: Grad research forum, UConn 2024.

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