Ramya Srinivas

Contact

LinkedIn ID:

ramyasrinivas1812

Profile Summary

Detail-oriented graduate biotechnology professional with 2+ years of academic research experience in microbial fermentation, downstream purification, analytical instrumentation, mammalian cell culture, flow cytometry, in vivo mouse models, and immunology assays.

Education

Texas A&M University — **Aug 2024 – May 2026**
Master in Biotechnology

Anna University — **Aug 2019 – May 2023**
Bachelor of Technology in Biotechnology

Professional Experience

- **Song Lab - Texas A&M University** — **Sept 2025 – May 2026**
  Student Research Assistant

– Studied cancer immunotherapy in murine models using engineered live-attenuated *Brucella melitensis*.

- **Holtzapple Lab- Texas A&M University** — **Jan 2025 – May 2025**
  Graduate Student Assistant

– Executed lab-scale anaerobic fermentation batches and downstream acid profiling across diverse feedstocks to optimise process parameters and maximise food-grade carboxylic acid yields.

- **Gummadi Lab- Indian Institute of Technology Madras** — **Jan 2023 – June 2023**
  Summer Intern

– Engineered microbial fermentation of Pseudomonas sp. NCIM 5235 to maximise intracellular N-demethylase activity and achieve efficient caffeine degradation.

Publications

• Arcot, Y., Srinivas, R., Mu, M., Maghoumi, M., Cisneros-Zevallos, L., & Akbulut, M. E. S. (2025). Organosilanized Hydrophobic Sand for Drought Resilience: Reducing Water Percolation and Enhancing Crop Growth Conditions. ACS Omega, 10(33), 37583–37596. pubs.acs.org/doi/10.1021/acsomega.5c03952

• Ravindran, J., Kanagaraj, D., Srinivas, R., Dinesh, S., Muniendra Babu, M., Jerald, I., & Arul, S. S. (2024). Genetic Insight: PON1-C(L55)/T Polymorphism Elevates Cardiovascular Risk in Women with PCOS. The Bioscan, 19(2), 18–22. thebioscan.com/index.php/pub/article/view/2159/2068