

Sharvani Mahadevaraju Ph.D.

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Education and Professional Experience

- Assistant Professor** Visiting Position, St. Mary's College of Maryland, MD, 2024 Aug - Current
Department of Biology, Teaching: Principles of Biology, Cell Biology and Genetics
- Research Fellow** National Institutes of Health (NIH), Bethesda, 2021-2023
Drosophila gonad and germ line development with genetics and genomics
- Postdoctoral Fellow** National Institutes of Health (NIH), Bethesda, 2016-2023
Developing Fly Cell Atlas, a single-cell transcriptomic atlas of the adult fruit fly and Sex chromosome dynamic expression in germ cells
- Ph.D.** Texas A&M University, TX, 2015
Drosophila sex determination
- Research Associate** Texas A&M University, TX
Drosophila genetics research and training
- Lecturer** MMK and SDM Pre-University College, India
Department of Biology, Taught: Principles of Biology
- Masters** University of Mysore, India
Zoology with Genetics major

Awards and Honors

- Travel award for **outstanding poster** presentation, 17th annual NIDDK scientific conference, 2022
- Director's award for the Fellow Advisory Board **service to the welfare of graduate students, and fellows**, group, NIDDK, NIH, 2020
- Lawrence Dillon Award for **excellence in research and teaching**, Texas A&M University, 2015
- Shyamantha Rathna **Gold Medal**, Award for top of the class in M.S., University of Mysore

Additional Training and certificates

- Genetics Peer Review Training Program, GSA, 2022-2024
- Scientists Teaching Science, online course, NIH
- BioTech 45: Bioinformatics Analysis of NGS Data, FAES, 2019
- R for Researchers, bioinformatics course, BIOTRAC, 2019
- Writing and publishing a scientific paper workshop
- The grant writing workshop, NIDDK, NIH

Leadership and Professional Service

Reviewer	PLOS Genetics, Current Biology, Molecular Biology of Cell, PLOS One, Nature Communications, G3
Organizer/Moderator	Career consulting event at the 17 th annual NIDDK scientific conference
Member	Genetic Society of America (GSA)
Member	Fellows Advisory Board, NIDDK/NIH
Judge	Scientific talks and posters, The 17 th annual NIDDK scientific conference, NIH
Leader	Single-cell Genomics Interest Group Journal Club, NIH
Leader	Developmental Biology Journal Club, Texas A&M University

Teaching and Mentoring

Instructor	Community college summer enrichment program (CCSEP-CSOAR), OITE, NIH
Volunteer	High School Scientific Training and Enrichment Program (HiSTEP), OITE, NIH
Mentor	Postbaccalaureate Max Savery, NIH, currently pursuing PhD in Leuven University Graduate student , Yi Sun, Texas A&M University, employed at biotech company Undergraduate , Huda Naeem, Texas A&M University, emergency room physician
Leader	Individual Development Plans workshop for graduate students and postdoctoral fellows, NIDDK, NIH
Teaching Assistant	Undergraduate studies Texas A&M University Introductory Biology 111-Lab, Molecular Cell Biology 213-Lecture Microbiology 315-Lab

Publications (2020-current)

Mahadevaraju S, et al. Diverse somatic Transformer and sex chromosome karyotype pathways regulate gene expression in Drosophila gonad development, *eLife (submitted)*, 2024

Jaime MDLA, Salem GH, Martinez DJ, Karott S, Flores A, Palmer CD, **Mahadevaraju S**, et al. Whole Animal Feeding FLat (WAFFL): a complete and comprehensive validation of a novel, high-throughput fly experimentation system. *G3 jkad012*, 2023

(First co-author) Raz AA, Vida GS, Stern RS, **Mahadevaraju S**, et al. Emergent dynamics of adult stem cell lineages from single nucleus and single cell RNA-Seq of Drosophila testes. *Elife* 12:e82201, 2023

Li H, Janssens J, FCA Consortium (**Mahadevaraju S**), et al. Fly Cell Atlas: a single-cell transcriptomic atlas of the adult fruit fly. *Science*, 4;375(6584):eabk2432, 2022

Mahadevaraju S, et al. Dynamic sex chromosome expression in Drosophila male germ cells. *Nat Commun* 12(1):892, 2021

Mahadevaraju S, et al. Evidence that Runt acts as a counter-repressor of Groucho during Drosophila melanogaster primary sex determination. *G3 (Bethesda)* 10(7):2487-2496, 2020

Galletta BJ, Ortega JM, Smith SL, Fagerstrom CJ, Fear JM, **Mahadevaraju S**, Oliver B, Rusan NM. Sperm Head-Tail Linkage Requires Restriction of Pericentriolar Material to the Proximal Centriole End. *Dev Cell* 6;53(1):86-101.e7, 2020

Complete list of publications in the following link

<https://scholar.google.com/citations?user=IKK1sbQAAAAJ&hl=en>