

SHREEHARSHA T. TARIKERE

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RESEARCH EXPERIENCE

1. Currently a post doc in the Extavour lab working on the *Drosophila* ovary development. I work on Identification of pathways that affect ovariole formation in larvae using a cell sorting and RNA seq based approach. (from June 2015)
2. Completed PhD at IISER Pune, on ***Evolution and Development of Insect Wings***. Identified direct targets of the hox gene Ultrabithorax in the hind wing bud of *Bombyx mori* (silkworm) using ChIP seq/RNA seq and did comparative genomics with other insects to explore evolution and development of insect wings. (August 2007- May 2015).
3. Carried out pilot experiments on ChIP on *Bombyx* wing buds in Graduate Center for Frontier Studies, University of Tokyo, Kashiwa campus, Japan, for three months to understand the methodology of studying developmental biology in *Bombyx*. This was funded by the Company of Biologists Development travel fellowship. (May-August, 2010)
4. Summer project on “Protein (Yeast Prp24) expression and purification for characterization of its RNA recognition motifs.” in Prof. Usha Vijayraghavan’s laboratory, Department of Microbiology and Cell Biology, Indian Institute of Science (IISc.), Bangalore, India. This work involved the purification of Prp proteins and in vitro analysis of protein-RNA interactions. (June-August 2005)
5. Summer project on “Olfactometer studies on behavior of ant mimicking spiders and fig wasps.” in Plant-Animal Interactions Laboratory, Prof. Rene Borges, Centre for Ecological Sciences, Indian Institute of Science (IISc.), Bangalore, India. The work involved behavioral assays to test choices made by wasps and spiders. (June-August 2004)
6. Summer project on “Identification of high risk Human Papilloma Virus (HPV) types in cervical scrapes using PCR based method.” in Cancer Biology Laboratory, Dr. Gayatri Ramakrishna, Centre for DNA Fingerprinting and Diagnostics (CDFD), Hyderabad, India. (June-July 2003)
7. Summer camps at Dr Anjali Karande (2002, Biochemistry, IISc, Bangalore), Dr D P Kasbekar (2001, Fungal genetics lab, CCMB, Hyderabad) labs and IISc (2000, general science camp) under the KVPY Program.

8. Member of the organizing committee for one week workshop on “Gene Cloning” at Department of Microbiology and Biotechnology, Bangalore University. (June 2006).

PUBLICATIONS

Prasad, N.*, Tarikere, S.*, Khanale, D., Habib, F., Shashidhara, L.S. A comparative genomic analysis of targets of Hox protein Ultrabithorax amongst distant insect species. Scientific Reports 6: 27885 (2016) *equal first authors

PRESENTATIONS AND MEETINGS

- Invited participant at the 4th Biennial Symposium on Growth and Regeneration, at Begur, Barcelona, Spain, May 22-25, 2016.
- Awarded the Best poster presentation in the EMBO workshop on upstream and downstream of Hox genes held from 14-17 December 2014 in Hyderabad, India. (Poster)
- 9th International workshop on the molecular biology and genetics of Lepidoptera at Crete, Greece in August 2014. (Presentation)
- 7th International conference on the Biology of Butterflies in Turku, Finland in August 2014.(Poster)
- 24th CDB meeting on “Genomics and Epigenomics with deep sequencing” at CDB RIKEN, Kobe, Japan, June 13-14, 2013. Funded by APDBN travel fellowship Japan.(short talk and poster)
- 43rd Annual JSDB Meeting on developmental biology held in Kyoto, Japan. June 20-23, 2010. Funded by JSDB travel fellowship.(Poster)
- Attended the hands-on training workshop on “Implementing Next generation sequencing for Genomics and Epigenetics studies” at IISER Pune. February 24-27, 2014.

ACHIEVEMENTS

- 1999–2006: Recipient of the [Kishore Vaigyanik Protsahan Yojana \(KVPY\)](#) National Science Fellowship funded by the Dept. of Science and Technology (DST), India and convened by Indian Institute of Science (IISc.), Bangalore, India
- Development Travel fellowship to travel for collaborative research in Japan, 2010.
- Awarded and Activated the CSIR JRF 2007 fellowship for research
- Awarded the ICMR JRF 2006 and DBT JRF 2007 fellowship for research (not used)
- Cleared the Indian Institute of Science (IISc.) Entrance Exam and Interview 2006

EDUCATION

1. Center for Cellular and Molecular Biology (CCMB), Hyderabad, India.
PhD Coursework (Aug 2007- Apr 2008)
2. Bangalore University, Department of Microbiology and Biotechnology, Jnanabharathi campus, Bangalore, India.
Master's Degree in Biotechnology (2006)
Aggregate Marks: - 70%
3. Bangalore University, Government Science College, Nrupathunga Road, Bangalore, India.
Bachelor of Science (2004)
Microbiology, Botany, Chemistry, English and Hindi
Aggregate Marks: 76%, *Ranked 1st in College in all three years*
4. Kendriya Vidyalaya (KV) National Aerospace Laboratory (NAL) campus, Bangalore, affiliated to the Central Board of Secondary Education (CBSE), India.
 - All India Senior School Certificate Examination, (2001) Aggregate Marks: 76%
Biology, Chemistry, Mathematics, Physics, English.
 - All India Senior School Examination, (1998) Aggregate marks: 87%
Science, Mathematics, Social Science, English, Sanskrit, Hindi.

SKILLS

1. *Drosophila* genetics, FACS and low cell RNA Seq.
2. Chromatin immuno-precipitation (ChIP) with tissue samples and bioinformatics analysis of the data using open source tools based on Linux platform for ChIP-Seq.
3. Techniques in *Drosophila* genetics and molecular work (RNA in situ, IHC etc.)
4. Protein, purification and characterization (MALDI TOF)
5. Maintenance of Silkworm cultures, trained from CSRTI and Sericulture Dept. University of Mysore
6. Basic Microbiological, Biochemical, Molecular biology and Immunological techniques.

Nationality: Indian

Date and Place of Birth: 15 August 1984, Shimoga, Karnataka, India

Languages Known: English, Hindi, Kannada, and Japanese

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

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REFERENCES

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