



Dr. Ranjini M.S.

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Educational Qualification:

- M.Sc. in Zoology from University of Mysore, Karnataka (2003)
- Ph.D in Genetics from University of Mysore Karnataka (2011)

Area of Interest:

- Insect Breeding and Genetics
- Stress Physiology in Silkworm
- Molecular Biology

Awards/Honours/Fellowship:

- JRF followed by SRF from 2006 to 2010 by DST
- Young Scientist Award in 2007 by PES College Bangalore, Karnataka.
- Best Oral presentation Award in 2010 at Sixth *Drosophila* Meeting organized by DOS in Zoology, University of Mysore, Karnataka.
- Karnataka State Level Lectureship Eligibility Test (KSET) 2014.

Teaching Experience: 03 years

Publications:

1. **Ranjini M. S.** and Ramachandra N. B. (2013) Rapid evolution of a few members of *nasuta-albomicans* complex of *Drosophila*: study on two candidate genes, *sod1* and *rpd3*. *Journal of Molecular Evolution*. 76(5): 311-23.
2. **Ranjini M. S.** Ravikumar Hosamani, Muralidhara and Ramachandra N.B. (2011). Differential susceptibility of a few members of the *nasuta-albomicans* complex of *Drosophila* to paraquat-induced lethality and oxidative stress. *Genome*. 54: 829-835.
3. **Ranjini M. S.** and Ramachandra N. B. (2011) Differential response to hormesis by laboratory evolved short-lived and long-lived cytoraces of *nasuta-albomicans* complex of *Drosophila*. *Italian Journal of Zoology*. 78(1): 70-81.
4. **Ranjini M. S.** and Ramachandra N. B. (2009) Evolution of short-lived and long-lived races of *Drosophila* in the environs of laboratory. *Indian Journal of Gerontology*. 23 (4): 381-398.
5. **Ranjini M. S.**, Amruthavalli C. and Ramachandra N. B. (2009) Molecular perspective of *Sod1* in *Drosophila nasuta nasuta*. *Proceedings of National conference of Information Technology and its Applications*. 97-105.

6. Ramachandra N. B. and **Ranjini M. S.** (2009) Experiments to Demonstrate Change in Allelic Frequency by Genetic Drift. *Resonance – Journal of Science Education*. 1110-1118.
7. **Ranjini M. S.** and Ramachandra N. B. (2007) Recombination influences longevity in karyotypically similar hybrid races of *nasuta-albomicans* complex of *Drosophila*. *Proc.Natl.Symp.RTIBS*. 90-96.

Gene Sequences Published in National Centre for Biotechnology Information (NCBI) GENBANK DATABASE: Total 16

Paper Presentations in Conferences:

1. **Ranjini M. S.** and Nallur B. Ramachandra. Recombination influences longevity in karyotypically similar hybrid races of *nasuta-albomicans* complex of *Drosophila* (**Oral presentation and won Young Scientist Award**) in conference Recent Trends in Bioscience on August 2007 organised by PES college Bangalore, Karnataka.
2. **Ranjini M. S.** and Nallur B. Ramachandra. A journey of long life driven by conserved regulation of longevity genes in *Drosophila* homology with humans (**Poster presentation**) at XXXIII Annual conference of the ISHG and International symposium on Genetics Revisited: the Genomics and Proteomics advantage held on 11-13th February 2008, Department of Human Genetics, Andhra University, Visakhapatnam.
3. **Ranjini M. S.** and Nallur B. Ramachandra. Secret of long life embedded within dietary restriction; A case study in the members of *nasuta-albomicans* complex of *Drosophila* (**Oral presentation**) at Fifth *Drosophila* Meeting held on 28th and 29th March 2008, Unit on Evolution and Genetics, Department of Studies in Zoology, Manasagangotri, Mysore, Karnataka.
4. **Ranjini M. S.**, C. Amruthavalli and N. B. Ramachandra. Molecular perspective of *Sod1* in *Drosophila nasuta nasuta* (**Oral presentation**) in conference Information Technology and its Applications, organized by Centre for Information Science and Technology, Karnataka on 21st and 22nd November 2009.
5. **Ranjini M. S.** and N. B. Ramachandra. Influence of mild stresses on the lifespan of short-lived and long-lived races of *nasuta-albomicans* complex of *Drosophila* (**Oral presentation**) in conference Recent Trends in Animal physiology, organized by Department of Studies in Zoology, Manasagangotri, Mysore, Karnataka on 29th and 30th October 2009.
6. **Ranjini M. S.** and N. B. Ramachandra. Evolutionary dynamics of cytorace 15 and 16 of *nasuta albomicans* complex of *Drosophila* (**Oral presentation and won Best Oral Presentation Award**) at Sixth *Drosophila* Meeting held on 19th and 20th November 2010, Unit on Evolution and Genetics, Department of Studies in Zoology, Manasagangotri, Mysore, Karnataka.
7. **Ranjini M.S.** and N. B. Ramachandra An evolutionary fate of life expectancy in two cytoraces of *nasuta-albomicans* complex of *Drosophila* (**Poster presentation**) in conference organized by KSTA and JSS college Ooty Road, Mysore on 21st and 22nd February 2014.

Memberships

1. Life member of Indian Gerontological Association.
2. Life member of Indian Science Congress Association.