



## **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 11-13<sup>th</sup> 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 28<sup>th</sup> and 29<sup>th</sup> 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 21<sup>st</sup> and 22<sup>nd</sup> 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 29<sup>th</sup> and 30<sup>th</sup> 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 19<sup>th</sup> and 20<sup>th</sup> 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 21<sup>st</sup> and 22<sup>nd</sup> February 2014.

### **Memberships**

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