

**RAVI KUMARA R**

Scientist – B  
Muga P-3 Seed Station, MESSO,  
Central Silk Board, Kobulong,  
Mokokchung District, Nagaland-798615.  
E mail - [ravisilkstar5@gmail.com](mailto:ravisilkstar5@gmail.com)  
Phone -7829234074



*Area of Research interest:*

- ✓ Silkworm's Host Plant Breeding
- ✓ Vanya Sericulture
- ✓ Ecology and Climate Change
- ✓ Aromatic and Medicinal Plants

*Educational Qualifications*

- **Ph. D. - Sericulture Science. (Mulberry Cytogenetics and Physiology). (Distinction)**  
Department of Sericulture Science, University of Mysore, Karnataka.
- **M. Sc. - Sericulture and Seri-Biotechnology. (2014-2016). (Distinction)**  
Department of Sericulture Science, University of Mysore, Karnataka.
- **B. Sc. - Chemistry, Botany, and Sericulture. (2012-2014). (First class)**  
Visveshwara College of Science, University of Bangalore, Karnataka.
- **P. G. Diploma - Horticulture. (2017-2018). (Distinction)**  
Department of Sericulture Science, University of Mysore, Karnataka.

*Qualified Exams*

- ✓ ***ICAR-National Eligibility Test (NET) in the discipline of Agricultural Entomology***
- ✓ ***Graduate Aptitude Test in Engineering (GATE) in the discipline of Life Sciences***
- ✓ ***Karnataka State Eligibility Test (K-SET) in the discipline of Life Sciences***
- ✓ ***ICAR-National Eligibility Test (NET) in the discipline of Agri. Biotechnology***

M.Sc. Project Title - CYTOGENETIC STUDIES ON A MULBERRY (*MORUS* SPP.) HYBRID OF A CROSS BETWEEN DIPLOID AND TRIPLOID PARENTS.

Ph.D. Thesis Title - MOLECULAR, CYTOGENETIC AND MORPHO-BIOMETRIC ANALYSIS OF CLONALLY SELECTED MULBERRY GENOTYPES (*MORUS* SPP.).

### Research Experiences

- ❖ Project Associate - I at CSIR - Central Institute of Medicinal and Aromatic Plants, Bengaluru, under the project “*Aroma Mission*” (Agronomy component of Aromatic plants) during 2021 – 2023.
- ❖ Project Assistant at DOSK - Karnataka State Sericulture Research and Development Institute, Bengaluru, under the project “*Impact of climatic change on Sericulture in Karnataka and implementation of Adaptation and Mitigation technologies at Farmer's level*” during 2021.
- ❖ Junior Research Fellow at ICFRE - Institute of Wood Science and Technology, Bengaluru, under the project “*Study of climate driven effects on Indian Forest through long-term Ecological monitoring*” during 2020.
- ❖ Young Professional - I at ICAR - Indian Institute of Horticultural Research, Bengaluru, under the project “*Understanding the changes in Host-Pest interaction and dynamics in Mango under climate change scenario*” during 2019 - 2020.
- ❖ Junior Research Fellow at CSB - Central Sericultural Research and Training Institute, Mysuru, under the project “*Mapping Quantitative Trait Loci (QTLs) for Alkalinity Tolerance in Mulberry*” during 2017 – 2019.

## Publication Details

CORRESPONDENCE ARTICLE		
<b>Ravi Kumara R.</b> and Yogendra N.D.	Habituation of Indian Peafowl ( <i>Pava cristatus</i> ) to human activities.	Current Science. 124: 393. (2023).
<b>Ravi Kumara R.</b> and Yogendra N.D.	Mulberry ( <i>Morus</i> spp.) cultivation to prevent and mitigate Human–Elephant conflict and ensure livelihood sustainability.	Current Science. 122: 650. (2022).
REPORT ARTICLE		
<b>Ravi Kumara R.,</b> Jula S. Nair. and Lokesh G.	Tropical Tasar silkworm ( <i>Antheraea mylitta</i> Drury) in south–eastern Karnataka: First report.	Sericologia. 62: 150-152. (2022).
SHORT COMMUNICATION ARTICLE		
<b>Ravi Kumara R.</b> and Paramesh P.	Sericulture for sustainable livelihood, where Humans and Elephants co-exist in Karnataka, India.	Gajha (Journal of the Asian Elephant Specialist Group). 57: 24-26. (2024).
<b>Ravi Kumara R.</b>	<i>Macaranga peltata</i> (Roxb.) Mull. Arg. – A new host plant for Eri silkworm.	Journal of Plant Development Sciences. 15: 505-507. (2023).
POPULAR ARTICLE		
<b>Ravi Kumara R.</b>	Weeping Fig ( <i>Ficus benjamina</i> ): A bush type host plant for the tropical Tasar silkworm.	Indian Silk. Article ID: DA00177.
<b>Ravi Kumara R.</b>	Effective use of Sampoorna for uniform maturity in Mulberry silkworm.	Indian Silk. Article ID: DA00176.
<b>Ravi Kumara R.</b> and Harish Kumar J.	Avian predators in cocoon market on the Uzi fly <i>Exorista bombycis</i> Louis.	Insect Environment. 28. (2024).
Harish Kumar J., <b>Ravi Kumara R.</b> and Kiran N.R.	Drone technology in Tasar sericulture- A future prospect.	Just Agriculture. 4: 1-4. (2024).
<b>Ravi Kumara R.,</b> Lohith C. and Manohara T.N.	Feeding ecology of Sloth Bear ( <i>Melursus ursinus</i> ) and its role in seed dispersal.	Van Sangyan. 10: 18-24. (2023).
<b>Ravi Kumara R.</b> and Mohan Kumar G.P.	Mulberry ( <i>Morus</i> spp.) - A potential source of herbal medicine.	Van Sangyan. 10: 22-25. (2023).
RESEARCH ARTICLE		
<b>Ravi Kumara R.</b> and Mohan Kumar G.P.	Bud sports in the Mulberry cultivar, Victory-1 and their characteristics.	International Journal of Industrial Entomology and biomaterial. IJIE J1_202300040. (2024).
Hiremath C., Prabhu K.N. <b>Ravi Kumara R.</b> et al.,	Induction and characterization of polyploids through cytological, morphological, chemical, and molecular approaches in Patchouli ( <i>Pogostemon cablin</i> Benth.)	Plant Cell, Tissue and Organ Culture. EMID:258c56e94089b797. (2024).

Yogendra N.D., <b>Ravi Kumara R.</b> , Keerthi, P.E. and Sundaresan V.	Shade-induced phenotypic plasticity and its impact on the economic traits of Patchouli, <i>Pogostemon cablin</i> (Blanco) Benth., a high-value Aromatic crop.	Current Science. (2024).
<b>Ravi Kumara R.</b> , Baskaran K., Pragadheesh V.S. and Yogendra N.D.	Variations in Lemon grass ( <i>Cymbopogon</i> sp.) essential oil yield and chemical compositions within a leaf blade.	Indian Perfumer. (2024).
Swamy Gowda M. R., <b>Ravi Kumara R.</b> and Sowmya R.	Phenotypic and biochemical characterization of Turmeric ( <i>Curcuma longa</i> L.) during developmental stages.	Journal of Essential Oil & Plant Composition. 2: 104-114. (2024).
Saicharan D., <b>Ravi Kumara R.</b> , Lopamudra G. and Kartik Neog.	Impact of natural and mechanical mating on fecundity and egg retention in Muga silkworm, <i>Antheraea assamensis</i> (Lepidoptera: Saturniidae).	Journal of Experimental Agriculture International. 46: 563-568. (2024).
<b>Ravi Kumara R.</b> , Keerthi P.E. and Yogendra N.D.	Floral biology insights into essential oil yield and its chemical composition in Davana ( <i>Artemisia pallens</i> Bess), a high-value Aromatic plant of India.	Journal of Spices and Aromatic Crops. 32: 80-89. (2023).
<b>Ravi Kumara R.</b> <b>et al.</b> ,	Genotypic and phenotypic variability in a clone of Mulberry cultivar, Vishala.	Sericologia. 62: 9-17. (2022).
<b>Ravi Kumara R.</b> and Ramesh H.L.	Genetic variation, heritability, correlation and path analysis for leaf yield traits in clonally selected Mulberry genotypes ( <i>Morus</i> spp.).	Journal of Plant Development Sciences. 14: 587-591. (2022).
Sheelavathi A.V., <b>Ravi Kumara R.</b> and Basavaiah.	Cytogenetical and morpho-anatomical studies on an improved Mulberry cultivar G-2 and its parents.	Journal of Plant Development Sciences. 14: 759-764. (2022).
<b>Ravi Kumara R.</b> , Keerthi P.E. and Yogendra N.D.	Biodiversity of medicinal plants in the dry deciduous (thorny scrub) forest of Karnataka, India.	Journal of Medicinal and Aromatic Plant Science. 44: 46-54. (2022).
<b>Ravi Kumara R.</b> , Ramesh H.L. and Manjunatha H.B.	Morpho-biometric and cytogenetic analysis of clonally evolved Mulberry cultivars ( <i>Morus</i> spp.).	Acta Scientific Agriculture. 5: 92-101. (2021).
<b>Ravi Kumara R.</b> <b>and Jayanthi P.D.</b> Kamala.	Removal of seed leaves in Tomato during transplantation to restrict the infestation of Serpentine Leaf Miner, <i>Liriomyza trifolii</i> Burgess.	Journal of Eco-friendly Agriculture. 15: 144-146. (2022).
<b>REVIEW ARTICLE</b>		
<b>Ravi Kumara R.</b>	Genetics, Cytogenetics and Genomics of Mulberry ( <i>Morus</i> spp.).	Sericologia. 63: (2023).
<b>Ravi Kumara R.</b>	Breeding in host plants of Eri silkworm for rearing suitability.	Mysore Journal of Agricultural Sciences. 57: 24-43. (2023).

<b>Ravi Kumara R.,</b> Sowbhagya P., Swamy Gowda M.R., Sudhakar P. and Ramesh H.L.	Salt tolerance mechanisms in Mulberry and their implications.	Sericologia. 62: 68-83. (2022).
<b>Ravi Kumara R</b> and Sneha M.V.	Breeding in host trees of Tasar silkworm for higher foliage productivity.	Journal of Plant Development Sciences. 14: 885-896. (2022).
<b>Ravi Kumara R.</b> and Harish Kumar J.	The Fagara silkworm ( <i>Attacus atlas</i> L.): An underutilized Vanya silkworm of India.	Journal of Biodiversity, Bioprospecting and Development. 8: 1-11. (2022).
Harish Kumar J., <b>Ravi Kumara R.,</b> Ravi kumara K. and Santhosh M.	Agrochemicals in sericulture and silk industry, and their effects on the Human health and environment.	Journal of Biodiversity and Environmental Sciences. 23: 1-17. (2023).
<b>BOOK CHAPTER</b>		
Harishkumar J., <b>Ravi kumara R.,</b> Kiran N.R., Ravikumara K. and Vasu Mehtaet.	Silkworm: Diversity and advances in silk production. In: <i>Storage Entomology and Beneficial Insects: An overview.</i>	Walnut Publication. 225-250. (2023).
<b>Ravi kumara R.,</b> Harishkumar J. and Mohan Kumar G.P.	Integrated farming systems in Mulberry sericulture. In: <i>Futuristic Trends in Agriculture Engineering &amp; Food Sciences.</i>	IIP Series Publication. 3: 149-160. (2024).
<b>CONFERENCE ARTICLE</b>		
<b>Ravi Kumara R.</b> Saicharan D., Lopamudra G. and NeogKartik Neog	Egg laying performance of Muga silkmoth ( <i>Antheraea assamensis</i> Helfer) on different oviposition devices.	Silkworm Seed Con-2024 - Silkworm Seed Industry: Opportunities and Future Prospects. 30-31 Jan. 2024.
<b>Ravi Kumara R.</b> and Ramesh H.L.	Seed fertility in crossing interaction between diploid and triploid cytotypes of Mulberry.	National Conference on Sericulture Based Multi Disciplinary Approaches for Climate Resilience Sustainability and Livelihood Security. 2022.

### Membership

- ✓ Life member of National Academy of Sericulture Sciences India (NASSI).
- ✓ Member of the Japanese Society for Wild Silkmoths.

*I hereby confirm that the information given above is correct*