

# PROFILE

## **Dr. Rajesh Kumar Scientist -C**

Entomology and Muga Silkworm Seed Technology Section  
Central Muga Eri Research & Training Institute  
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### **Qualification:**

- M.Sc. in Zoology (Entomology) from C.C.S. University, U.P. (1998).
- Ph.D. (Zoology) from C.C.S. University, U.P. (2009).

### **Experiences:**

1. **Senior Research Fellow** from **28<sup>th</sup> June 2002 to 31<sup>st</sup> August 2003** (DBT funded).
2. **Computer Programmer** from **1<sup>st</sup> September 2003 to 31<sup>st</sup> March 2005** in the division of Entomology, IARI, New Delhi 110012 (INDIA)
3. **Research Associate** in the Division of Entomology, IARI, New Delhi 110012 (INDIA) from **29<sup>th</sup> October 2005 to 28<sup>th</sup> April 2010**.
4. **Scientist-B** in Central Muga Eri Research Institute, Central Silk Board, Ministry of Textiles (Govt. of India), Lahdoigarh 785008, Jorhat, Assam, INDIA. **29<sup>th</sup> April 2010 to 25<sup>th</sup> February 2014**
5. **Scientist-C** in Central Muga Eri Research Institute, Central Silk Board, Ministry of Textiles (Govt. of India), Lahdoigarh 785008, Jorhat, Assam, INDIA. **26<sup>th</sup> February 2014 to continue**

### **Area of Expertise:**

- Muga Silkworm, *Atheraea assamensis* Helfer (Lepidoptera: Saturniidae) Rearing and Grainage
- Insect Biosystematics; Insect biodiversity associated in Seri-ecosystem
- Wild silk moths diversity of North East India
- Conservation of wild silk moths in North East India

### **PRIZES/AWARDS/MEMBERSHIPS**

1. First Prize Winner of Poster Presentation entitled "**Changing face of conservation efforts vis a vis insect biodiversity & modern technology**" in "National Colloquium on Wildlife Conservation and Animal Welfare Issues" at Zoology Department, Meerut College, Meerut on 22<sup>nd</sup> October 2005
2. **£450 Student Award** for participating in International Symposium "**Aquatic Insects: challenges to populations**" 16-18 July 2007, University of Edinburgh, Edinburgh, Scotland organized by Royal Entomological Society, London
3. Received Photography Award from USA for two photographs in "**National Insect Saloon 2010**" by Steve Herrick, The Director, National Insect Saloon 2010.
4. **Member of Troop of Reputed Tortricid Systematists**, Systematic Entomology Laboratory, USDA, Smithsonian Institution, P.O. Box 37012, National Museum of Natural History, Washington, DC 20013-7012, USA.

- Received **DST International Travel Fellowship** for visiting and attending the International Conferences at Natural History Museum, Erfurt- 2011
- Member of THE PYRALOID PLANET of the World**

**Delivered lecture (International) :**

- July 2007 - **England** (NHM, London), Scotland (University of Edinburgh, Edinburgh)
- April 2011- **Germany** (NHM Erfurt, Zoological Museum Munich, University of Jena)
- August 2012 – “Brainstorming Meeting” related to Invasive insect pests problem in Avocado plantation and biological control at Centre for Invasive Species Research, University of California, Riverside, CA (**USA**) Available online in youtube  
<http://www.youtube.com/embed/ttrZBLvVaoI?rel=0>

**Major concluded / ongoing project:**

S. No.	Title	PI/Co-PI	Funding Agency	Cost (Rs. In Lakhs)	Ongoing / concluded
1	Network Project on insect Biosystematics Sub Project- Development of diagnostics of muga eri and other related silkworms of North East India	PI	ICAR, New Delhi	2.00	Concluded in October, 2013
4	Studies on the improvement of seed production of muga silkworm, <i>Antheraea assamensis</i> Helfer	Co-PI	CSB, Bangalore	27.00	Concluded in March, 2013
2	Exploration, Collection, characterization of wild sericigenous of North eastern India	PI	CSB, Bangalore	34.00	Ongoing
3	Study of insect fauna associated with muga-ecosystem in North East India emphasis with illustrated diagnostics	PI	DST, New Delhi	29.57	Ongoing
5	Molecular approaches in characterization and utilization of gut microflora from muga silkworm <i>Antheraea assamensis</i> for enhancing productivity of muga culture in North Eastern India	Co-PI	DBT, New Delhi	45.0	Ongoing
6	Etiology of bacterial diseases and molecular characterization of the pathogens of muga silkworm ( <i>Antheraea assamensis</i> Helfer) from North East India	Co-PI	DST, New Delhi	25.0	Ongoing

**Publications (International):**

- Rajesh Kumar**, G.S. Arora and V.V. Ramamurthy, 2009. A new subspecies of *Talica niseus* (Guerin) (Lepidoptera : Lycaenidae) from Delhi, India, *Oriental Insects*. 43: 297-307 (Taylor and Francis Publisher)
- V.V. Ramamurthy, Mir Shamim Akhtar, Nitisha V. Patankar, Pratibha Menon, **Rajesh Kumar**, Shakti Kumar Singh, Shaloo Ayri, Shama Parveen and Vishal Mittal, 2010. Efficiency of different light sources in light traps in monitoring insect diversity. *Munis Entomology & Zoology* 5 (1):109-114 (Turkey)
- Rajesh Kumar** and V.V. Ramamurthy, 2010. Morphology and bionomics of *Phycodes radiata*, Ochseneimer (Lepidoptera: Brachodidae) from India. *Tijdschrift voor Entomologie*, 153:15-24 (Netherlands)

4. **Rajesh Kumar**, Vishal Mittal, N. V. Patankar and V.V. Ramamurthy, 2010. Bionomics of mycophagous coccinellid, *Psyllobora bisoetonotata* (Mulsant) (Coleoptera: Coccinellidae). *Munis Entomology & Zoology* 5(2): 652-657 (Turkey)
5. G. Rajkhowa, **Rajesh Kumar** and R.K. Rajan, 2010. Gynandromorphy in *Antheraea assamensis* Helfer (Saturniidae: Lepidoptera) from Lahdoigarh, Assam (India). *Munis Entomology & Zoology* (Turkey), 5(suppl.): 1191-1193 (Turkey)
6. **Rajesh Kumar**, G. Rajkhowa, N.J. Dhar and R.K. Rajan, 2011. A new record of *Xylotrupes gideon* (Linnaeus) (Coleoptera: Scarabaeidae) on *Persia bombycina*, Kost. from India. *Munis Entomology & Zoology*, 6(1): 173-175
7. G. Rajkhowa, **Rajesh Kumar**, and R.K. Rajan, 2011. Studies on the long-term preservation method of Muga Cocoon (*Antheraea assamensis* Helfer) at low temperature. *Munis Entomology & Zoology*, 6 (2): 815-818
8. **Rajesh Kumar**, G. Rajkhowa, M. Sankar and R.K. Rajan, 2011. A new host plant for the Tea Borer, *Euwallacea fornicatus* (Eichhoff) (Coleoptera: Scolytidae) from India. *Acta Entomologica Sinica*. 54(6): 734-738
9. **Rajesh Kumar** and V.V. Ramamurthy, 2012. Checklist of the genus *Eublemma* Hübner, 1821 (Lepidoptera: Noctuidae: Eublemminae). *Munis Entomology & Zoology*, 7 (1): 1227-1251
10. **Rajesh Kumar**, G. Rajkhowa and A. B. Barapatre, 2012. *Lamprolabus pseudobispinosus* Legalov & Liu, 2005 (Coleoptera: Attelabidae), new record to India. *Munis Entomology & Zoology*, 7 (2): 1282-1283
11. Girin Rajkhowa, **Rajesh Kumar** and M. Sankar, 2012. Mother moth examination method for detection of pebrine – a need based technology for popularization at Private Muga Seed Producers level. National Seminar on recent trends in Research & Development in Muga Culture – Ideas to action, Guwahati, May 3-4<sup>th</sup>, 2012. P. 122-125.
12. **Rajesh Kumar** and Girin Rajkhowa, 2012. Muga silkworm, *Antheraea assamensis* (Insecta: Lepidoptera: Saturniidae): rearing and insect. In: Proceedings (Eds. Hartmann & Weipert): **Biodiversität und Naturlausstattung im Himalaya IV. – Erfurt, Germany pp. 187-190**
13. **Rajesh Kumar**, Vishal Mittal, Neeraj Kumar and V.V. Ramamurthy, 2013. Taxonomic aid to major crambid vegetable pests from North India (Lepidoptera: Crambidae). *Munis Entomology & Zoology*, 8 (2): 858-875
14. **Rajesh Kumar** and Vinay Kumar, 2013. A new species of genus *Macdunnoughia* Kostrowicki (Lepidoptera: Noctuidae) from India. *Munis Entomology & Zoology*, 8 (2): 876-882
15. Mohammad Hayat, L. Roni K. Singh and **Rajesh Kumar**, 2013. A new species of encyrtid (Hymenoptera) on gall-inducing psyllids (Hemiptera) from India, *Oriental Insects*, 47: 2-3, 150-154
16. D M Firake, **Rajesh Kumar**, G T Behere and V. Varma, 2014. First report of *Tiracola plagiata* Walker (Lepidoptera: Noctuidae) attacking *Dolichos* bean, *Lablab purpureus* L. from India. *Entomological News* (**Accepted**)
17. **Rajesh Kumar**, Vishal Mittal, Preetirekha Chutia and V.V. Ramamurthy, 2013. Taxonomy of *Fulgoraacia melanoleuca*, (Lepidoptera: Epipyropidae) - a biological control agent of *Pyrilla perpusilla* (Hemiptera: Lophopidae). *Zootaxa*. (**Accepted**)

#### Book

**Rajesh Kumar**, V.V. Ramamurthy and Neeraj Kumar, 2012. Biosystematics of Major Lepidopteran Pests of Vegetables. Published by **LAP LAMBERT Academic Publishing, Germany** (23 June 2012): **ISBN-10: 3844382984, ISBN-13: 978-3844382983, pp. 348 (Cost : 79Euro)**

#### Booklet

**Rajesh Kumar** and G. Rajkhowa and R.K. Rajan, 2010. "Grainage Technology for Quality Seed Production of Muga Silkworm, *Antheraea assamensis* Helfer". Central Muga Eri Research and Training Institute, Lahdoigarh 785700. pp.1-10