



Dr Debnirmalya Gangopadhyay
Assistant Professor of Sericulture

Academic Qualifications: Ph.D. in Sericulture

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Raiganj-733134, Uttar Dinajpur, West Bengal

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Research Interest: Silkworm Breeding and Genetics

Specialization: Silkworm Breeding and Genetics; Cocoon Production Technology (Sericulture)

Fellowships:

- Junior Research Fellowship (JRF) and
- Senior Research Fellowship (SRF) from the Department of Science and Technology (DST), Ministry of Science and Technology, Govt. of India

Award:

- Awarded 1st position (University topper) in B.Sc. from the University of Burdwan, Burdwan and 1st class with distinction in M.Sc. from the University of Mysore, Mysore.
- Awarded certificate on successful completion of the training course entitled **“Faculty Development Programme in Entrepreneurship”** organized by Entrepreneurship Development Institute of India, Ahmedabad from 31st January, 2011 to 11th February, 2011.
- Awarded certificate on successful completion of the training course entitled **“Design and Evaluation of Innovation Policy in Developing Countries”** jointly organized by CDS, NISTADS and UNU-MERIT, New Delhi

from 2-7 February, 2009.

- Awarded certificate on successful completion of the training course entitled **“Science for Rural Societies Programme”** organized by Centre for Disaster Management, Lal Bahadur Shastri National Academy of Administration, Mussoorie, India and sponsored by the Department of Science and Technology, New Delhi from 20th April – 1st May, 2009.
- Awarded certificate on successful completion of the SAS (a Statistical Software) short-term training programme on **“Enterprise Guide: ANOVA, Regression and Logistic Regression”** and **“Applied Analytics using SAS Enterprise Miner 5”** held at NISTADS, New Delhi.

Conference/Seminar/Organisation: Participated in **5 international and 5 national** conferences/seminars.

International Conference/Seminar/Organisation

1. Gangopadhyay D. (2009) Eco-friendliness of sericulture and its impact on poverty alleviation to the tribal population in India – A perspective review. In: International Conference on Emerging Trends in Environmental Research (14th - 16th Aug., 2009) at St. Albert’s College Ernakulam, Kerala.
2. Gangopadhyay D. and Rai, L. P. (2010) Impact of public communication of science and technology on the Indian society–Development of an assessment framework. In: 11th International Conference on Public Communication of Science & Technology (PCST) (6th - 10th Dec., 2010) at New Delhi, pp. 67-74.
3. Gangopadhyay, D. and Roy, Santanu (2011) Efficiency Assessment of Public-Funded R&D Organizations: An Application of Data Envelopment Analysis. In: XV Annual International Conference of the Society of Operations Management (SOM) (16 - 18th December, 2011) Indian Institute of Management Calcutta, pp. 65-73.
4. Gangopadhyay, D., Roy, Santanu and Mitra, Jay (2015) Performance Assessment of Public-Funded R&D Organizations Working on Similar Research Streams: A Multinational Study. In: 15th International Conference of the International-Society-for-Scientometrics-and-Infometrics (ISSI) on Scientometrics and Infometrics, 29 Jun - 04 Jul 2015, Bogazici University, Istanbul.
5. Gangopadhyay, D. (2017) Information and Communication Technology (ICT) for Sericulture Knowledge Management: Case of Indian Sericulture. International Seminar on Emerging Trends in Information Science and Technology (13 - 14th January, 2017) at Raiganj University, Raiganj, Uttar Dinajpur, West Bengal.

National Conference/Seminar/Organisation

6. Ravindra Singh, Premalatha, V., Rao, D. R., Kariappa, B. K. and Gangopadhyay, D. (2003) Influence of female pupal weight and male cocoon

shell weight on egg production index in silkworm, *Bombyx mori* L. National Conference on Tropical Sericulture for Global Competitiveness (5th - 7th Nov., 2003) at Central Sericultural Research and Training Institute, Mysore, p. 90.

7. Ravindra Singh, Gangopadhyay, D., Nirupama, R. and Kamble, C. K. (2007) New breeding approaches in the development of silkworm breeds of the mulberry silkworm, *Bombyx mori* L. 18th All India National Congress of Zoology & National Seminar on "Current Issues on Applied Zoology and Environmental Sciences with Special Reference to Eco-restoration & Management of Bioresources" (SCIAZE) (7th - 9th December, 2007) at University of Lucknow, Lucknow, p. 48.
8. Ravindra Singh, Gangopadhyay, D., Nirupama, R. and Kamble, C. K. (2008) Artificial parthenogenesis and androgenesis as novel breeding strategies in the silkworm, *Bombyx mori* L. Mulberry Silkworm Breeders' Meet (10th June, 2008) at Central Sericultural Research and Training Institute, Mysore, pp. 54-56.
9. Gangopadhyay, D. and Ravindra Singh (2017) Studies on the maternal inheritance of artificial parthenogenesis in the mulberry silkworm, *Bombyx mori* L. National Seminar on Recent Trends in Life Sciences (26th March, 2017) at Raiganj University, Raiganj, Uttar Dinajpur, West Bengal.
10. Gangopadhyay, D. and Biswas Pradip (2017) Measuring the economic benefits from R&D: A case of economic impact assessment of selected metrology projects of National Physical Laboratory, India. National Seminar on Development Perspectives for India: Emerging Issues and Challenges (27th March, 2017) at Raiganj University, Raiganj, Uttar Dinajpur, West Bengal.

Teaching Experience: Around 1 year

Research Experience: More than 8 years

Research Guiding Experience:

Ph.D. Scholars: 1 (one)

Post-Doctoral - Research Associate: N.A.

Completed Research Projects: **4 (Please see the details below)**

SI · No	Title	My Role	Duration (months)	Grant (lakhs)	Donor	Outcome
1	Sundarban Beekeeping Cluster	Programme Officer (RIO)	36	126	KVIC	Socio-economic upliftment of the honey artisans
2	Micro-enterprise Development: A Demand Side Perspective	Project Coordinator	6	15	UNDP, New Delhi	Policy Document to the UNDP for the XII th five year plan
3	A Comprehensive Report on Material and Metal Engineering Education in India for Better and Sustainable Growth in the Academy of Scientific and Innovative Research	Project Leader	6	6	CSIR, New Delhi	Policy Document to the AcSIR of CSIR
4	Framework for Impact Assessment of the NCSTC - Network	Project Coordinator	6	6	DST, New Delhi	Policy Document to the DST, New Delhi

Ongoing Project: N.A.

Previous & Present Employment:

1. Scientist, CSIR-National Institute of Science Technology & Development Studies, New Delhi.
2. Project Coordinator (Manager), Foundation for MSME Clusters, New Delhi.
3. Programme Assistant, Indo-Frech Centre for the Promotion of Advanced Research, New Delhi.
4. Programme Officer (CDE/RIO), Vivekananda Institute of Biotechnology, Nimpith, West Bengal.
5. Assistant Professor, Department of Sericulture, Raiganj University, Raiganj, West Bengal.

Administrative Experience:

- Organized one International Workshop and one National Workshop as an Organizer/Coordinator.
- Successfully served as a Project Leader/Coordinator in various projects.
- Member of Board of Studies (UG-Hons Prog.), Department of Sericulture, Raiganj University.
- Member of Board of Studies (PG Programme), Department of Sericulture, Raiganj University.

Financial Assistancess from following Organisations for attending International Conferences in abroad: N.A.

Publications: **48**

Books: **9**

Research Papers: **25**

Technical Report: **5**

Advisory Editor: N.A.

Special Lectures: N.A.

Keynote Addresses: N.A.

Country Visited: N.A.

Editorial Board Member: N.A.

REVIEWER of the following Books and Journals: N.A.

Jury Member: N.A.

LIST OF PUBLICATIONS: **48**

RESEARCH PAPERS : **25**

National: **10**

1. **Gangopadhyay, D.** and Ravindra Singh (2004) Preliminary report on parthenogenetic development in excised unfertilized eggs of the mulberry silkworm, *Bombyx mori* L. *Indian J. Seric.*, **43(2)**: 210-212.
2. **Gangopadhyay, D.** and Ravindra Singh (2006) Improvement of parthenogenetic development in the eggs of some parthenogenetic lines of the mulberry silkworm, *Bombyx mori* L. *Entomon*, **31(1)**: 9-14.
3. **Gangopadhyay, D.** and Ravindra Singh (2006) Line × tester analysis in hybrids between polyvoltine and bivoltine breeds of the silkworm, *Bombyx mori* L. *Indian J. Seric.*, **45(2)**: 116-122.
4. **Gangopadhyay, D.**, Ravindra Singh and Raghavendra Rao, D. (2006) Selection of silkworm breeds / hybrids through multiple traits indices and cocoon size variability. *Indian J. Seric.*, **5(2)**: 181 -184.

5. Ravindra Singh, Basavaraja, H. K., Kariappa, B. K., Rao, D. R., Rao, P. R. M., Premalatha, V. and **Gangopadhyay, D.** (2006) Reciprocal effect in F₁ hybrids between multivoltine and bivoltine breeds of the silkworm, *Bombyx mori* L. *Indian J. Seric.*, **45(2)**: 178 -180.
6. **Gangopadhyay, D.** and Ravindra Singh (2008) A new breeding approach to evolve polyvoltine breed(s) of the silkworm, *Bombyx mori* L. using parthenogenetic techniques. *Indian J. Seric.*, **47(1)**: 87-93.
7. Nirupama, R., Ravindra Singh and **Gangopadhyay, D.** (2008) Identification of promising multivoltine × bivoltine hybrids of the mulberry silkworm, *Bombyx mori* L. *Entomon*, **33(2)**: 147-150.
8. **Gangopadhyay, D.**, Ravindra Singh and Kamble, C. K. (2009) Evolution of a bivoltine breed DNB₁ of the silkworm, *Bombyx mori* L. through ameiotic parthenogenesis. *Indian J. Seric.*, **48 (1)**: 41-48.
9. Ravindra Singh, Kamble, C. K., **Gangopadhyay, D.** and Rao, P. R. M. (2009) Induction of mosaic by double copulation in the silkworm, *Bombyx mori* L. *Indian J. Seric.*, **48(1)**: 85-87.
10. **Gangopadhyay, D.** and Mukhopadhyay, A. K. (2010) Participatory learning and action for sustainable rural development in India - A case study of Didhsari village, Uttarkashi, Uttarakhand. *J. Rural Devel.*, **29(2)**: 199-227.

International: **15**

1. **Gangopadhyay, D.**, Ravindra Singh, Premalatha, V., Rao, D. R., Kariappa, B. K. and Dandin, S. B. (2003) Studies on egg production index in some newly evolved multivoltine breeds of the silkworm, *Bombyx mori* L. *Int. J. Indust. Entomol.*, **7(2)**: 117-125.
2. Ravindra Singh, Rao, D. R., **Gangopadhyay, D.**, Choudhary, N., Kariappa, B. K. and Dandin, S. B. (2004) Development of a polyvoltine breed - BL₆₇ (Pg) of the silkworm, *Bombyx mori* L. with parthenogenetic origin. *Int. J. Indust. Entomol.*, **9(1)**: 41-46.
3. Ravindra Singh, Rao, D. R., Baro, P., Choudhary, N., **Gangopadhyay, D.**, Kariappa, B. K. and Dandin, S. B. (2004) Evaluation of F₁ hybrids between RD₁ and bivoltine breeds of the silkworm (*Bombyx mori* L.) for exploitation in dry zones. *Int. J. Indust. Entomol.*, **9(2)**: 199-205.
4. **Gangopadhyay, D.**, Ravindra Singh, Kariappa, B. K. and Dandin, S. B. (2005) Parthenogenesis in silkworm, *Bombyx mori* L. *Int. J. Indust. Entomol.*, **10 (1)**: 1-10.
5. **Gangopadhyay, D.** and Ravindra Singh (2006) Parthenogenetic development in excised eggs of F₁ hybrids of the silkworm, *Bombyx mori* L. *Sericologia*, **46(2)**: 229-232.
6. **Gangopadhyay, D.** and Ravindra Singh (2006) An improved method of parthenogenetic development and analysis of combining ability in bivoltine breeds of the silkworm, *Bombyx mori* L. *Int. J. Indust. Entomol.*,

13(2): 63-72.

7. **Gangopadhyay, D.** and Ravindra Singh (2007) Development and evaluation of parthenoclones of the mulberry silkworm, *Bombyx mori* L. *Sericologia*, **47 (3):** 259-269.
8. Ravindra Singh, Nirupama, R., **Gangopadhyay, D.** and Kamble, C. K. (2009) Development of polyvoltine breeds of the mulberry silkworm, *Bombyx mori* L. with androgenic origin. *Sericologia*, **49 (2):** 21-28.
9. Ravindra Singh, Sreekumar, **Gangopadhyay, D.**, Nirupama, R. and Ashwath, S. K. (2009) Assessment of homozygosity using RAPD markers in silkworm breeds developed through application of androgenesis and parthenogenesis. *Sericologia*, **49 (3):** 261-266.
10. Ravindra Singh, Nirupama, R., **Gangopadhyay, D.** and Kamble, C. K. (2009) An improved method of androgenetic development in the silkworm, *Bombyx mori* L. *Sericologia*, **49 (2):**
11. Ravindra Singh, Nirupama, R. and **Gangopadhyay, D.** (2009) Effect of refrigeration of non-diapause eggs of the mulberry silkworm, *Bombyx mori* L. *Sericologia*, **50 (1):** 129-132.
12. Ravindra Singh and **Gangopadhyay, D.** (2013) Identification of Bivoltine Breeds and Hybrids of the Mulberry Silkworm, *Bombyx mori* L. *Mun. Ent. Zool.*, **8 (1):** 203-207.
13. Ravindra Singh and **Gangopadhyay, D.** (2013) Selection of Polyvoltine Breeds and Polyvoltine × Bivoltine Hybrids of the Silkworm, *Bombyx mori* L. *Mun. Ent. Zool.*, **8 (2):** 578-581.
14. Ravindra Singh, **Gangopadhyay, D.** and Nirupama, R. (2013) An Overview on the Development and Evaluation of Breeds/Hybrids of the Mulberry Silkworm, *Bombyx mori* L. *Mun. Ent. Zool.*, **8 (2):** 593-603.
15. **Gangopadhyay, D.** (2016) Information and Communication Technology (ICT) for Sericulture Knowledge Management: Case of Indian Sericulture. *International Journal of Information Science and Computing*, **3 (2):** 59-66.

Patent: N.A.