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**Educational qualification:** M.Sc. in Botany (Cytogenetics & Plant Breeding) from Gauhati University (1983). Ph. D. in Botany from G.U. (1991)

### Experiences:

Organization/Institute	Designation/position	Period
Research Extension Centre, Dhakuakhana	Incharge/SRA	1986-1989
CMR&TI, Lahdoigarh	Incharge/SRA	1989-1992
NSP, TSC, Nakachari	Incharge/SRA	1992-1994
NSP, TSC, Dhekiajuli & TSC, Nakachari	Incharge/SRA	1994-1996
RERS, Mendipathar	Incharge/SRO	1997-2002
CMER&TI, Lahdoigarh	Scientist-B , Scientist-C Presently Scientist-D	2002-till date

**Area of research interest:** Pre-cocoon activities of eri culture.

### Award, recognition (if any):

- ❖ Received appreciation from Shri S.K. Panda, IAS, Secretary, MoT, Shri J. Deori, Director of Sericulture, BTC, Kokrajhar, Research Review Committee, CSB, Bangalore, Director of Sericulture, Govt. of Mizoram, Dr. K. Giridhar, Retired Director, CMER&TI, Lahdoigarh, Dr. R. Chakravorty, Retired Director, CMER&TI, Lahdoigarh for various achievements.
- ❖ Recognized as Ph. D guide from Gauhati University and USTM, Khanapara, Meghalaya and guided 3 Ph. D scholars.
- ❖ Guided 2 MBA students for the award of Degree of Master of Businesses Administration.

### Major Projects handled:

1. Screening of high yielding castor varieties
2. Evaluation of suitable variety of castor
3. Improvement of Castor in leaf yield & quality
4. Integrated plantation system of castor and kesseru
5. Improvement of eri silkworm crop production
6. Standardization of eri silkworm seed production technique.
7. Digitized inventory of silkworm resources
8. Breeding for improvement of eri silkworm
9. Genome analysis in muga silkworm host plants (Som & Soalu): DNA profiling of certain elite genotypes using molecular markers and development of mapping populations.
10. Survey, collection, characterization and documentation of eri silkworm germplasm.

11. Characterization of soils in different muga rowing areas of NE region in relation to productivity.
12. Micro Propagation of Muga Host Plant, *Persea bombycina* (King) Kost
13. Evaluation of superior genotype (s) of Castor (*Ricinus communis* L) for eri silkworm rearing.
14. Collection, characterization, evaluation and conservation of perennial host plants for Eri silkworm rearing.
15. Development of egg preservation technique of eri silkworm, *Samia ricini*, Donovan.
16. Sustainable eri silkworm rearing: evaluation of *Ailanthus* species.
17. Popularization new eri breed C2 at farmers' field.
18. Development of suitable combinations/hybrids of eri silkworm with sustainable performance for commercial exploitation (on going).

### Nos. of publications:

SCI/Referred journals: 22, Popular/Tech. article 15, Reports 08, National Proceedings/Abstract 34 and International Proceedings/Abstract 12, Book/Book chapter 24, Leaflets/Pamphlets 12

### Important publications:

1. Sarmah M.C., B.N. Sarkar, S.A. Ahmed and K. Giridhar (2015) Performance of C2 breed of eri silkworm, *Samia ricini* (Donovan) in different food plants. *Entomology and Applied Science Letters* 2, 1:47-49. ISSN No: 2349-2864
2. Sarkar B. N., Sarmah M. C. and Giridhar K. (2015) Grainage performance of eri silkworm *Samia ricini*(Donovan) fed on different accession of castor food plants. *International Journal of Ecology and Ecosolution*. 2 (2) : 17-21.
3. Ahmed S.A., Sarkar C.R., Sarmah M.C., Ahmed M. and Singh N.I., (2015) Rearing performance and reproductive biology of eri silkworm, *Samia ricini* (Donovan) feeding on *Ailanthus* species and other promising food plants. *Advances in Biological Research* 9 (1): 07-14, ISSN 1992-0067.
4. Sarmah M.C., Neog K., Das A, , Phukan J.C.D. (2013) Impact of soil fertility and leaf nutrients status on cocoon production of Muga silkworm, *Antheraea assamensis* (Helfer) in potential muga growing areas of Assam, India, *Int.J.Curr.Microbiol. App.Sci* 2(9): 25-38 [ISSN:2319-7692(Print), ISSN:2319-7706(Online)].
5. Gogoi, S.N, Debaraj, Y Sarmah, M.C and Bindroo B.B. (2013) Phenology of wild castor, *Ricinus communis* L and its palatability for eri silkworm, *Samia ricini* (Donovan) *Uttar Pradesh J. Zool.* 33(1):75-79. ISSN 0256-971X
6. Sarmah M.C., S.A. Ahmed and B.N. Sarkar (2013) New pests of Kessuru, *Heteropanax fragrans* (Roxb.) a perennial host plant of for eri silkworm, *Samia ricini* (Donovan). *Munis Entomology & Zoology*. 8, No. 2, 900-901.[ISSN 1306-3022]
7. Sarmah M.C. et al (2013) Field trial of two promising castor genotypes for eri silkworm, *Samia ricini* (Donovan) rearing. *Munis Entomology & Zoology*. Vol. 8, No. 1, 162-165.[ISSN 1306-3022]
8. Sarkar B.N, Sarmah M.C. and Dutta K. (2012) Screening of superior ecoraces of eri silkworm *Samia ricini* (Donovan) based on better economic traits in respect of rearing and grainage performance in different seasons *J. Appl. Biosci.*, 38(1): 1-22 [ISSN (print) 0975-685X] and [ISSN (Online) 0975-864X]
9. Sarmah, M. C., Ahmed, S. A. & Sarkar, B. N. 2012. Research & technology development, byproduct management and prospects in Eri culture - A review. *Munis Entomology & Zoology*, 7 (2): 1006-1016. [ISSN 1306-3022]
10. Sarmah, M. C., Ahmed, S. A., Sarkar, B. N., Debaraj, Y. & Singh, L. S. 2012. Seasonal variation in the commercial and economic characters of Eri Silkworm, *Samia ricini* (Donovan). *Munis Entomology & Zoology*, 7 (2): 1268-1271.[ISSN 1306-3022]
11. Sarkar, B. N., Sarmah, M. C., Dutta, P. & Dutta, K. 2012. Embryo isolation and egg preservation technology of eri silkworm *Samia ricini* (Donovan) (Lepidoptera: Saturniidae). *Munis Entomology & Zoology*, 7 (2): 792-797 [ISSN 1306-3022]
12. Ahmed S. A, Dutta, L.C. and Sarmah M. C. (2012). Bio-Efficacy of some Insecticides against Leaf Eating Caterpillar *Cricula trifenestrata* Helfer (Lepidoptera: Saturniidae) Infesting Som *Persea bombycina* Kost. Plantation. *Academic Journal of Entomology* 5(2):94-98. [ISSN 1995-8994]
13. Ahmed S. A, Sarmah M. C. and Rajan R. K. (2012). New report of Syonaka (*Oroxylum indicum* (L.) Benth. ex Kurz.) as a food plant of eri silkworm, *Samia ricini* Donovan (Lepidoptera: Saturniidae) in Assam, India. *Munis Entomology & Zoology*, 7(1) 650—653. [ISSN 1306-3022]

14. Debaraj, Y., Singh, N. I., Sarmah, M. C. & Singh, R. (2012). Fabrication of suitable low cost bamboo mountages for Eri Silkworm, *Samia ricini* Donovan. *Munis Entomology & Zoology*, 7 (1): 646-649 [ISSN 1306-3022]
15. Sarmah M.C., Chutia M., Neog K., Das R., Rajkhowa G., Gogoi S.N. (2011) Evaluation of promising castor genotype in term of agronomical and yield attributing traits, biochemical properties and rearing performance of eri silkworm, *Samia ricini* (Donovan) *Industrial Crops and Products* 34:1439– 1446 [IF 3.208].
16. Sarmah M.C., Rahman S.A.S. and Barah A. (2010) Traditional terminologies in Muga and Eri culture *Ind. J. Traditional Knowledge* 9(3) 448-452. [IF 0.232] .
17. Sarkar B.N. and Sarmah M.C (2010) Seasonal variation of grainage characters in seed production of eri silkworm, *Samia ricini* (Donovan). *Indian J. Seri.* 49(1), 88-91. [ISSN 0445-7722].
18. Sarmah, M.C., Hazarika, U. and. Chakravorty, R. (2008) Response of certain agronomical practices in perennial cultivation of castor utilized for eri silkworm rearing. *Sericologia* 48(2), 207-211. [ISSN 0250-3980]
19. Debaraj, Y, Sarmah. M.C, and Suryanarayana, N.(2003): Seed technology in Eri silkmoth- experimenting with other oviposition devices. *Ind. J. Seri* 42(2) 118-121. [ISSN 0445-7722]
20. Sarmah. M.C., Datta. R.N., Das. P.K. and Benchamin. K.V. (2002): Evaluation of certain castor genotypes for improving ericulture. *Ind. J. Seri.* 41(1): 62-63. [ISSN 0445-7722].
22. Sarmah M. C. (2014).Organic muga silk- A novel approach in Vanya silk. *Silk Mark Vogue.* Vol. 7 (26) : 16-17.
23. Sarmah M. C. (2014).Golden muga silk: An overview of its raw silk production and potentiality. *Silk Mark Vogue.* Vol. 6 (24) : 24-26.
24. Sarmah M.C. (2011) Eri pupa: a delectable dish of North East India. *Current Science*, Vol. 100, No.3, 10 [IF 0.897].
25. Sarmah M. C. (2013).and Soalu: Variation in leaf morphology. *Indian Silk.* Vol. 3 (51 old), No.10: 14-16.
26. Sarmah M. C. (2013).The irresistible eri silk: blended with cultural heritage of Assam. *Silk Mark Vogue.* Vol. 5 (18) : 20-22.
27. Sarmah M.C. and Dhar. N.J. (2012) Andaman Island: a potential growing region of Muga host plant, Soalu (*Litsea polyantha* Juss) *Indian Silk* Vol. 2. 50(old), No.9, 22-23.
28. Sarmah M.C. and Barah, A (2011) Vegetative propagation of kesseru- An ITK approach. *Indian Silk* Vol. 1. 49(old), No.10, 16-17.
29. Sarmah M.C. (2011). Rooted in Tradition. *The Assam Tribune*, Sunday Reading, 31<sup>st</sup> July, 2011.
30. Sarmah M.C. (2010). The Silkworm Saga. *The Assam Tribune*, Sunday Reading, 26<sup>th</sup> September, 2010.
31. Das, K., Das R., Sarmah M.C, Sarkar B.N. and Ghose J. (2009) Out door rearing of eri silkworm on muga food plant *Indian Silk*, 48 (6) :pp 14-15
32. B.N. Sarkar, M.C. Sarmah and R. Chakravorty (2008) Trimoult in eri silkworm *Indian Silk*, 46 (9): pp14-15.
33. Debaraj, Y, Sarmah, M C, Suryanarayana, N (2003) Low cost technology for eri silkworm rearing. *Indian Silk* 42(6), 23-25.
34. Sarmah M.C. and R. Chakravorty (2008) Castor hybrids for eri silkworm rearing. *Indian Silk*, 46 (9): pp 14-15.
35. Singh, B K, Debaraj, Y, Sarmah, M C, Das, P K and Suryanarayana, N (2003). Eco-races of erisilkworm. *Indian Silk*, 42(1), 7-10.
36. Suryanarayana. N., Das. P.K., Sahu. A.K., Sarmah. M.C. and Phukan. J.D. (2002): Recent advances in ericulture. *Indian Silk*, 41 (12):pp 5-12.
37. Debaraj Y, Sarmah MC, Datta RN, Singh LS, Das PK, Benchamin KV (2001) Field trial of elite crosses of eri silkworm. *Indian Silk*, (40)2: 15-16.

### Important books/book chapters

1. Ahmed, S.A., **Sarmah M.C.**, Sarkar, B.N, Giridhar K, Singha B.B. (2014). **Package of practices for rearing of eri silkworm C2 breed.** Published by Director, CMER&TI, Lahdoigarh.
2. **Sarmah MC (2012)** Eri pupa-A delectable dining dish. **Food Trail Discovering Food Culture of Northeast India.** Written & edited by Aiyushman Dutta. Published by NEZCC in Association with Assam Book Hive, under the documentation scheme of the Ministry of Culture, Government of India. Page 67-70.
3. **Sarmah M. C.**, Sarkar, B.N., Ahmed, S.A. and Deuri, J (2013).**Eri culture- a comprehensive profile.** Published by Director of Sericulture, BTC, Kokrajhar, Assam.