Dr. Sumendra Nath Gogoi

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Specialization: Cytogenetics, Plant Breeding

Ph. D. Thesis: An ecological study of weeds growing in the tea gardens of Dibrugarh district of Assam.

Publications:

Total : 42

First Author: 10 Nos., Book: 1 nos., Book Chapter: 2, Technical Article: 1
Booklet: 3 nos.

Best Ten:

1. **Gogoi, S.N**. and Chakravorty, R (1999) Weed flora of mulberry plantation in Assam. *Indian J. Seric*. **38**(2) 171-176.
2. **Gogoi, S. N.,** Barua, Meghali and Chakravorty, R. (2008) Collection and Characterization of Plus trees of *Persea bombycina* (King ex. Hook f.) Kost., the host plant of muga silkworm in Northeast India . *Journal of Plant Genetic Resource,* **20** (1)70-75.
3. **Gogoi, S. N.,** Barua, Meghali and Chakravorty, R. (2009) Studies on morphological characters of induced autotetyraploid Som, *Persea bombycina* (King ex. Hook f.) Kost., genotypes . ***Indian J. of Plant Genet .,*** **69 (2) 145-151**

4. Gogoi , S. N. and Barua, Meghali (2009) Induced autopolyploidy in soalu, *Litsea polyantha* (Roxb) pers, the primary food plant of muga silkworm, *Antheraea assamensis* Helfer. ***Indian J. Seric.,* 48(2) 198-200**

5. Gogoi, S.N. Ghosh, P.L. and Chakarvorty, R. (2009) Evaluation of superior som (*Persea bombycina* Kost.) genotypes for muga silkworms (*Antherea* ***assamensis,*** Helfer.) through bioassay and chemoassay studies. *Indian Journal of For.*, **32** (3): 419-42

6. Gogoi, S. N., Barua, Meghali and Rajan, R. K. **(2010)** Variability in flower and fruit traits in some diploid and tetraploid som, *Persea bombycina* genotypes , *Indian J. Sericulture* **49** (1) 215-217.

7. Gogoi, S.N., Ghosh, P.L. and Chakravorty, R. (2010) Induced auto-octoploidy in som, *Persea bombycina* (King ex Hook.f) Kosterm. *Indian Journal of Forestry*, **33** (3): 319-322

8. Gogoi, S.N. and *****Basera, C. **(2010)** Vegetative phenophages of *MORUS MACROURA* MIQ. and its comparison with improved mulberry varieties in Nagaland *Bull. Ind. Acad. Seri.14 (2)46*-55

9. Gogoi, **S.N.,** Singh, R, Bora*, A, Besera**, C. and Bajpai***, A.K. (2011) Evaluation of improved mulberry varieties at different altitudes in Nagaland *Uttar Pradesh J. Zool*. 31(2): 163-168.

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10. **Gogoi, S. N**., Sarma* R.N. and Rajan, R.K. (2011) Genetic diversity of castor (*Ricinus communis* L) germplasm in north-eastern region of India. *Indian J. Sericulture*, 50 (1) 51-57

Book : Dr. S. N.Gogoi, Dr. B.B. Bindroo, Dr. S. Roychowuri, Mrs. R. Das **"Hand Book on Mulberry Sericulture Practices for North Eastern India"** Published by Director, CSR&TI, Berhampore, West Bengal

Book Chapter

1. **Gogoi, S.N. ,** Charkarvorty, R. and Boruah, P.K (2006) *In* **Non-mulberry Silkworm and Host Plant Germplasm** entitled of chapter **"**Genetic variability in castor, *Ricinus communis* L., the primary food plant of eri silkworm, *Samia ricini* (Dovovan)". Published by Director, CMER&TI, Jorhat, and Assam. pp 1-9

2. Neog, K.N., Gogoi, **S.N.** and Charkarvorty, R. (2004) *In* **Non-mulberry Silkworm and Host Plant Germplasm.** Entitled of chapter "Present status and constrains of muga silkworm host plant germplasm conservation". Published by Director, CMER&TI, CSB, Jorhat, Assam pp10-11.

Technical Articles:

Gogoi, S. N., Ghosh , P.L. and Chakravorty , R. (2011) Godadhor – a superior variety of Som. *Indian Silk*, 1 (12) 10-12

Booklet

1. **Dr. S.N.Gogoi** and Dr. R. Chakravorty, Name of bulletin "**Selection of Plus trees of Muga Host Plants**; *Guidelines on Selection Practices for Host Plant Improvement",* CMER&TI, Lahdoigarh, Jorhat, Assam. Published by Director, CMER&TI, Lahdoigarh, Jorhat, Assam

2. **Dr. S.N.Gogoi**, Sri P.L.Ghosh & Dr. R.Charkarvorty, Name of bulletin "**GODADHOR,** A **superior som variety***"*, CMER&TI, Lahdoigarh, Jorhat, Assam. Published by Director, CMER&TI, Lahdoigarh, and Jorhat, Assam, India

3. Dr. R. Singh**, Dr. S.N. Gogoi,** R.Das. and M. Pamegham (2010) Unnat Nunikheti aru Patpalu palan Padtati, RSRS, Jorhat, Assam

Most significant contribution to Sericultural Industry

- Four **tetraploid som genotypes** have been developed as genetic materials for development of triploid in Som.
- One **auto-octoploidy som genotypes** has been developed and tested growth characteristics of plant.
- **Tetraploid soalu** (*Litsea polyantha* Roxb.) genotype has been developed as genetic materials for development of triploid in soalu plant
- **Godadhor variety of Som (PB012)** has been selected for commercial exploitation in field.
- **Four mulberry varieties** (i.e. S1635, Tr 4 and TR10, BC259) are identified as suitable improved mulberry varieties for commercial cultivation in Nagaland.
- **39 plus tree of Som** *Persea bombycina* (King ex Hook.f) Kosterm

identified in N.E. region, amongst those 6 (Six) plus tree accession *viz,* PB011, PB028, PB048, PB029, PB050 and PB039 has been identified as promising som varieties for commercial cultivation.

- **Field Gene Bank of Muga and Eri silkworms' Host plant** has been established at GCC, Chennijan , Jorhat, Assam.
- **Two promising castor accessions** *viz.*, A3 and A4 have been selected for commercial exploitation in field.

Important contribution in Weed sciences

1. **One hundred seventy nine** (179) weed species were identified in Tea plantation of Assam

2. **Five weed species indicated maximum IVI** *i.e,* ***Imperata cylindrica*** (L.) P. Beauv. (38.02), *Borreria articularis* (L. f.) Will. (37.56), *Ageratum conyzoides* L. (18.62), *Paspalum conjugatum* Berg. (17.66), *Axonopus compressus* (Sw.) P. Beauv. (17.18) are considered to be the most dominant weed species in Tea plantation of Assam.