



Dr. Kartik Neog
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Educational qualification: M. Sc. in Agriculture (Biotechnology) from Assam Agricultural University, Jorhat, Assam (1993)

Experiences:

Organization/Institute	Designation	Period
Muga Seed Development Project, P-3 Unit, Jia	SRA	1995-2000
RSRS, Jorhat	SRA	2000-2004
CMER&TI, Lahdoigarh	SRA	2000 -2005
CMER&TI, Lahdoigarh	SRO/Sc. B	2005 -2009
CMER&TI, Lahdoigarh	Scientist-C	2010 to till date

Area of research interest:

Molecular biology & biotechnology towards silkworm improvement.

Award (if any):

1. Adjudged as a “Promising Scientist” by CMER&TI, Lahdoigarh, Jorhat (2006-07).
2. Adjudged as a “Promising Budding Scientist” by CMER&TI, Lahdoigarh, Jorhat (2007-08).
3. Jointly received “Best Technology Award” towards development of a *Terminelia* based bio-formulation for enhanced silk production from the North East Institute of Science & Technology, Jorhat, Assam

Major Projects handled:

1. Isolation, characterization and screening of nitrogen fixing and phosphate solubilizing microorganisms from soils.
2. Assessment of phosphorus and potassium requirements for mulberry based on Mitscherlich-Brey concept.
3. Assessment of genetic variability of muga silk moth (*Antheraea assama*) populations using microsatellite markers.
4. Identification, characterization and diagnosis of some important muga silkworm diseases.
5. Development and standardization of an improved process for cooking and reeling of muga cocoons.
6. Micro-propagation of muga host plant Som (*Persea bombycina* Kost).
7. Isolation, identification and characterization of insect stimulants from the muga silkworm host plants and its functional properties
8. Endocrine regulation of reproduction and enhancement of fecundity in the muga silkworm, *Antheraea assamensis*” (DST-funded).
9. Characterization of soils in different areas of Assam in relation to productivity.

Publications:

1. Books Co-authored: 12 nos.
2. Paper published:
 - A. International: 13 (international 5, national 8); Seminars/workshops: 34; Popular articles: 3; Booklets: 5; Technical Reports: 8 nos.

Important publications:

1. Pranab Dutta, K. Neog, R. Das, K. Das, P. K. Handique and R. Chakravorty (2010) Evaluation of some botanicals, antibiotics, carbon source and carrier against the bacterial disease of muga silkworm, *Antheraea assamensis*. *Sericologia* 50(1): 1-9
2. Kartik Neog, H. Ranjit Singh, Balagopalan Unni and A.K. Sahu (2010). Analysis of Genetic Diversity of Muga Silkworm (*Antheraea assamensis*, Helfer; Lepidoptera: Saturniidae) using RAPD-Based Molecular Markers, *African J. Biotech.*, 9(12): 1746-1752
3. Brijmohan Singh Bhau, Kalyani Medhi, Ambrish P. Das, Siddhartha P. Saikia, Kartik Neog, S.N. Choudhury (2009). Analysis of *Persea bombycina* “Som” Using RAPD-Based Molecular Markers, *Biochem. Genet.*, DOI 10.1007/s10528-009-9242-6, Published online on 8th May 2009.
4. K. Neog, R. Chakravorty, G.M. Deka & T. Zamal (2008) Morphological characterization and rearing performance of Muga silkworm *Antheraea assamensis* Helfer germplasm accessions, *Sericologia* 48(3), 301-310.
5. B.G. Unni, Utpala Bora, H.R. Singh, B.S. Dileep Kumar, Barnali Devi, S.B. Wann, Archana Bora, B.S. Bhau, K. Neog and R. Chakravorty (2007) High yield and quality silk fibre production by Muga Silkworm, *Antheraea assama* through the application of Plant Growth Promoting Rhizobacteria. *Curr. Sc.*, 94(6), 768-774.
6. K. Das, R. Das, Pranab Dutta, P. Deb Nath, R. Chakravorty, S.A.S. Rahman, K. Neog, I. Sarmah and M. Islam (2007) First report on some important endo-mycoflora of *Antharea assamensis* Helfer (Lepidoptera: Saturniidae) from North east India. *Sericologia* 47(2): 225-228.