Dr. Dip Kumar Gogoi
Scientist-C
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Educational Qualification : M.Sc. in Life Sciences (Microbiology)
Ph.D. in Life Sciences (Microbial Biotechnology)

Area of research interest:

- ✓ Silkworm and host plant biotechnology
- ✓ Silkworm probiotics
- ✓ Integrated nutrition management

Professional experiences:

- ✓ Scientist-C at Biotechnology Section, CMER&TI, Central Silk Board, Govt. of India, Jorhat, Assam (Feb., 2014 to till date)
- ✓ Scientist-B at Biotechnology Section, CMER&TI, Central Silk Board, Govt. of India, Jorhat, Assam (2011-14)
- ✓ Scientist-B at Regional Eri Research Station, Central Silk Board, Govt. of India, Mendipathar, East Garo Hills, Meghalaya (2009-11)
- ✓ Research scholar at Tocklai Tea Research Station, TRA, Jorhat, Assam (2008-09)
- ✓ CSIR - Senior Research Fellow at Dept. of Biotechnology, NEIST (CSIR), Jorhat, Assam (2005-2008).
- ✓ DRDO – Junior Research Fellow at Biotechnology Division, Defence Research Laboratory (DRDO), Tezpur, Assam (2004-05)
- ✓ Project assistant at Dept. of Biotechnology, NEIST (CSIR), Jorhat, Assam (2001- 03)
- ✓ Post Graduate Teacher (PGT) in Biology at Jowahar Novoday Vidyalaya, Jorhat, Assam (2001)

Awards/honour/Fellowship (if any):

- ✓ DST Fast Track Young Scientist Project during 2011-12
- ✓ DRDO Junior Research Fellowship (JRF) during 2004
- ✓ CSIR Senior Research Fellowship (SRF) in Life Sciences in 2007-08

Major project handled:

- ✓ "Molecular approaches in characterization and utilization of gut microflora from Muga Silkworm *Antheraea assamensis* for enhancing productivity of Muga culture in North Eastern India" [Principal Investigator; Funding agency DBT, New Delhi; Duration 3 years]

- ✓ "Screening of Microbial Flora (Potential Biofertilizer) of Castor Rhizosphere and Development of INM Package in Ericulture" [Principal Investigator; Funding agency DBT, New Delhi; Duration 3 years]

- ✓ "Hardening of micro-propagated plantlets of muga host plant, *Persea bombycina* Kost." [Regular Programme, Co-PI; Funding agency CSB, Bangalore]

Team Member (Present):

- ✓ Mr. Sosanka Protim Sandilya, M.Sc. (JRF)
- ✓ Ms. Pinky Moni Bhuyan, M.Sc. (JRF)

Publication : Total – 30 nos.

i) Journal paper	: 20	ii) Book/Book chapter	: 3
iii) Seminar/Symposium paper	: 15	iv) Reports	: 5

Important recent publications:

- P.M. Bhuyan, S.P. Sandilya, **D.K. Gogoi**, K. Neog & S. Subramanian (2014). Isolation and characterization gut-bacteria of muga silkworm (*Antheraea assamensis* Helfer) collected from different localities of Assam. ***Sericologia***. Vol. 54 (1): 28-35.
- S. P. Sandilya**,** P. M. Bhuyan and **D. K. Gogoi*** (2013) Seasonal variation of soil biological properties in Castor (*Ricinus communis* L.) cultivated soils: A possible index towards soil fertility. ***Research Journal of Agriculture and Forestry Sciences***. Vol. 1(9), pp. 1-7.
- P. M. Bhuyan, S. P. Sandilya and **D. K. Gogoi*** (2013) Phyllosphere Microflora of Muga Silkworm Host Plant *Persea bombycina* Kost (Som) Leaves in Jorhat District of Assam, India. ***International Research Journal of Biological Sciences.*** Vol. 2(12), pp. 60-65.
- K. Neog, G.U. Ahmed, B.G. Unni, P. Dutta, **D.K. Gogoi** and K. Giridhar (2013) Variation in biochemical composition of different host plants of Muga silkworm, *Antheraea assamensis* Helfer. ***Sericologia***. Vol. 53(3), pp. 207-216.
- R. Saikia , **D.K. Gogoi**, S. Mazumder, A. Yadav, R.K. Sarma, T.C. Bora, B.K. Gogoi (2011). *Brevibacillus laterosporus* strain BPM3, a potential biocontrol agent isolated from a natural hot water spring of Assam, India. ***Microbiological Research.*** (Elsevier, UK). Vol. 166: 216-225.
- **D K Gogoi**, H P Deka Boruah, T C Bora & R Saikia (2008). Optimization of parameters for improved secondary metabolite production by a novel endophytic fungus *Fusarium* sp. DF2 isolated from *Taxus wallichiana* of North East India. ***World J of Microbiology & Biotechnology***. (Springer, Netherland) Vol. 24: 79-87.
- **D K Gogoi*,** S Mazumder, R Saikia and TC Bora (2008). Impact of submerged culture conditions on growth and bioactive metabolite produced by endophyte *Hypocrea* sp. NSF-08 isolated from *Dillenia indica*. Linn of North-East India. ***Journal de Mycology Medicine***. (Elsevier, Franch). Vol.18: 1-9.
- R Saikia, R Kumar, D K Arora, **D K Gogoi** & P Azad (2006); *Pseudomonas aeruginosa* inducing rice resistance against *Rhizoctonia solani*: production of salicylic and peroxidases. ***Folia Microbiol***. (Biomed, Czech Republic). 51 (5), 375-380.
- R Saikia, M Yadav, S Varghesh, B P Singh, **D K Gogoi**, R Kumar & D K Arora (2006); Role of Riboflavin in induced resistance against *Fusarium* wilt and charcoal rot disease of chickpea. ***The Plant Pathology Journal*** (Korea). Vol. 22 (4); pp 339-347.
- R Saikia, M Yadav, B P Singh, **D K Gogoi**, T Singh & D K Arora (2006); Induction of resistance in chickpea by cell wall protein of *Fusarium oxysporum* f. sp *Ciceri* and *Macrophomina phaseolina*. ***Current Science.*** (India) Vol. 91 (11), pp 1543-1546
- H Deka, **D K Gogoi**, H K Gogoi & P J Handique (2006). *In vitro* evaluation of antimicrobial properties of two species of genus *Gomphostemma.* ***Journal of Cell & Tissue Research.*** (Society for Science & Environment) Vol. 6 (2) pp. 787-791.
- J. Baruwa, B. Kalita, N.C. Barua, J.C. Bora, S. Mazumder, D.Thakur, **D.K. Gogoi** and T.C. Bora (2004). "Synthesis, absolute stereochemistry and molecular design of the new antibacterial and antifungal antibiotic produced by *Streptomyces* sp.201" ***Bioorganic & Medicinal Chemistry Letters.*** (Elsevier, UK) **14**: 3571-3574.
- A. Kar, **D.K. Gogoi**, B. Rabha & H.K. Gogoi. (2004). *In vitro* evaluation of antimicrobial property of the stem with leaf extract of *Curranga amara* against human pathogenic microorganisms. ***Asian J. of Mlcrobiol. Biotech. Env. Sc***. (Global Science, India) Vol. **7** (4): 759-762.

Nucleotide sequences submitted to NCBI database:

- **DQ299945**: *Bacillus pumilus* strain RRLJ SMAD 16S ribosomal RNA gene, partial sequence gi|83317142|gb|DQ299945.1|[83317142]
- **DQ299946**: *Paenibacillus lautus* strain RRL AY-2 16S ribosomal RNA gene, partial sequence gi|83317143|gb|DQ299947.1|[83317144]
- **EU278596**: *Streptomyces sannanensis* strain 118 ribocomal RNA gene, partial sequence [gi:161377616]gb[EU278596.1]
- **EU165705:** *Aspergillus elegans* strain SM01 18S ribosomal RNA gene partial sequence [gi:157429025]gb[EU165705.1]
- **EU159585:** *Brevibacillus laterosporus* strain BPM3 16S ribosomal RNA gene, partial sequence[gi:157460225]gb[EU159585.1]
- **EU165269:** *Hypocrea schweinitzii* strain DF-05 18S ribosomal RNA, partial sequence gi[157956148]gb[165269.1]
- **EU159585**: *Pseudomonas aeruginosa* strain RRLJH2, 16S ribosomal RNA gene, partial sequence (1469 bp). gi[167887761]gb[167887761.1]