



Dr. (Mrs) Ranjana Das

Scientist-D

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Educational qualification: M.Sc. in Botany (Microbiology) from Gauhati
University (1984)

Ph.D. in Botany from Gauhati University (2009)

Experiences:

- 1) Regional Muga Research Station, Kamrup, Assam SRA 1986-1992
- 2) Muga Seed Development Project, Lahdoigarh, Assam, SRA 1992-1996
- 3) Muga Seed Development Project, Lahdoigarh, Assam SRO 1996-1999
- 4) Cental Muga Eri Research & Training Institute, Jorhat, Assam SRO 1992-2006
- 5) Cental Muga Eri Research & Training Institute, Jorhat, Assam Scientist-C 2006-
- 6) Cental Muga Eri Research & Training Institute, Jorhat, Assam Scientist-D 2014-till date

Area of research interest: Isolation and Characterization of of food plants, Plant pathology,
Silkworm pathology, Microbiology Award (if any):

Major Projects handled:

1. Collection Isolation and evaluation of muga food plant *M bombycina* (CSB).
2. Studies on Diseases and pests of muga food plant (CSB).
3. Studies on effect of pollarding of muga food plant (CSB).
4. Studies on Diseases and pests of muga food plant Som (CSB).
5. Investigation on Pebrine disease in in muga Silkworm (CSB).
6. Identification, characterization and diagnosis of some important muga silkworm diseases (DBT).
7. Studies on leaf blight disease of muga food plant *Litsea monopetala*(CSB).
8. Evaluation of superior genotype (s) of Castor (*Ricinus communis* L) for eri silkworm rearing (CSB).
9. Forewarning and Forecasting for pest diseases of muga host plant and silkworm (CSB).
10. Establishment of Institutional Biotech Hub (DBT)
11. Etiology of Bacterial Diseases and Molecular Characterization of the Pathogens in Muga Silkworm (*Antheraea assamensis* Helfer) from North East India.(DST)
12. "Enhancement of rural economy through technology intervention for sustainable muga culture in Upper Brahmaputra Valley of Assam (DBT).

Patent:

1. An anti-mascardine formulation "Lahdoi". [No-114/KOL/2997 dated 20-06-2007].
2. "PHYTO- BLIGHTON" An anti blight eco-friendly bio-formulation (No. IPR/4.18.16/10069

Technology developed

1. Evaluation of high yielding S-3 and S-6 morphotypes of Som.
2. Lahdoi an an anti mascardine formulation.
3. Phytoblighnton an anti-blight eco-friendly bio-formulation.
4. Identified the causal agents of muga food plants and silkworm for specific management.
5. Developed the forewarning colander fr diseases and pests for muga food plants and silkworm

No. of publications: 86

National/international journals: 39;

Popular/technical articles: 15; Seminar/Conference/Workshop paper: 42; Books/01, Book chapters:09; Reports / Proceedings/pamphlet/leaflet etc.: 8

Important publications:

1. Raja Ram, Sengupta A.K. , Das Ranjana, Devnath M. and Samson M.V. (1993) Collection , identification and evaluation of *Machilus bombycina* King (Lurales: Luraceae) germplasm the muga food plant,1. *Sericologia*, 33(1) 109-124.
2. Das Ranjana, Das K. (2002) Seasonal incidence and intensity of major diseases of eri food plants . *Indian Phytopathology* (Vol-56-(3) 345-346.
3. Das K. Das Ranjana and Surjyanarayana N. (2002) Seed mycoflora of mejankari and its control. *Indian Phytopathology* 56(3) 344-345.
4. Das Ranjana and Das K. (2004) Effect of plant products and containers on seed germination of Castor (*Ricinus communis*). *Sericologia* . 44(2) 241-243.
5. Ranjana Das K. Das and Surjyanarayana N. (2005) A new anthracnose disease in muga food plant, som (*Persea bombycis* kost) in Assam. *Indian J. Sericulture* 44:134-135.
6. Ranjana Das ,K.Das and R. Chakrovorty.(2005),*Curvularia lunata* –A new leaf spot pathogen Of *Perrsaea bombycina* pers. *Indian Phytopathology* 59(2) 241-243
7. Das Ranjana and Das K. (2005) A report on seed mycoflora of muga and eri food plants . *Indian J. Sericulture*. 44(1)
8. Ranjana Das ,K. Das and R.Chakravorty (2005) Mode of perpetuation of anthracnose disease of muga food plant, *Persea bombycina* Kost. *Journal of Plant Disease Science*-1(2) 232-233.
9. Ranjana Das ,K.Das and R. Chakrovorty.(2005),*Curvularia lunata* –A new leaf spot pathogen Of *Perrsaea bombycina* pers. *Indian Phytopathology* 59(2) 241-243
10. Ranjana Das ,K.Das and R. Chakrovorty.(2005),Reaction of different cultivars of *Persea bombycina* Kost. Towards Leaf f spot disease caused by *Phylosticta perseae* Ell.& Mart. *Sericologia*. 45(3) :345-347.
11. Ranjana Das ,K.Das and R. Chakrovorty.(2007) *Phylosticta perseae* a new pathogen of mugafood plant som *Persea bombycina* *Journal of Plant Disease Science*-2 (2).235-236.
12. K.Das, Ranjana Das P.Dutta, R.Chakrovorty,P.Devnath,,SAS Rahman,N.Neog,,I.Sarmah & M.Islam (2007) First report on some important endo-mycoflora of *Antherea assamensis* ,Helfer (Lepidoptera:Saturnidae) from North-East India . *Sericologia*. 47(2) 225-228
13. Ranjana Das , K.Das D.K.Jha* and R. Chakravorty (2008) Evaluation of some chemicals against *Pestalotiopsis disseminata* causing grey blight of som *Sericologia* . 48(1) :113-117.
14. K.Das and Ranjana Das (2008) Mode of Attack and incidence of *Apanteles statoni* in golden silk producer, muga silkworm in Assam. *Insect Environment* 14(2) : 64 -66.
15. Ranjana Das and K.Das (2009) Incidence of leaf spot disease of som (*Persea bombycina*) in relation to weather and chemical management *Journal of Mycol and Plant Pathol* 38(2) 322-324.
16. Ranjana Das, K.Das and D.K. Jha (2009), Epidemiology of *Pestalotiopsis disseminata* causing grey blight disease of muga food plant som (*Persea bombycina*), *Environmental Biology and Conservation*.(accepted)
17. Ranjana Das, K. Das, Pranab Dutta and R. Chakravorty (2009) Effect of plant extracts on foliar blight disease of soalu caused by *Colletotrichum gleosporides*. *Environmental Biology and Conservation*.13:23-27
18. Ranjana Das a, M. Chutia a*, K. Das a, D.K. Jha (2010), Factors affecting sporulation of *Pestalotiopsis disseminata* causing grey blight, disease of the primary food plant of muga silkworm *Crop Protection* 29 (2010) 963e968.
19. M.C. Sarmah, M. Chutia* 4 , K. Neog, R. Das, G. Rajkhowa, S.N. Gogoi (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) *Science Direct. Industrial Crops and Products* 34 (2011) 1439– 1446

20. Ranjana Das, K. Das and D.K. Jha (2011). Factors Influencing grey blight disease (*Pestalotiopsis disseminata*) of muga host plant som (*Persea bombycina*) *Journal of Mycol and Plant Pathol* 40(3) ,555-557
21. Pranab Dutta, K. Neog, Ranjana 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.
22. Das Ranjana, Borgohain A. and Das. K (2013) Influence of age of castor (*Ricinus communis*) on severity of seedling blight (*Alternaria alternate*) and management *Journal of Research in Environmental Science and Toxicology* 2(2. 344-347.
23. Ranjana, Borgohain A. and Das. K(2013) Effect of inoculation method and plant age on seedling blight of castor caused by *Alternaria ricini* and its management with fungicides" *Indian J of Mycol & pl. pathol.* 43(3)336-340. R
24. K. Das, Ranjana Das, A. Bora and R. K. Rajan(2014). Studies on cross infectivity of pebrine disease from muga to eri silkworm. *Munnies Entmology Zoology.* 9, (1).518-520.
25. Ranjana Das, K. Das and K. Giridhar (2014) Constrains in management for conservation of muga silkworm (*Antherea assamensis* helper) *Mun. Ent. Zool.* 9, (2).879-883.
26. Ranjana Das, K. Das and R.K. Rajan (2014) Effect of plant extract on foliar blight disease of soalu caused by *Colletotrichum gloesporides* Penz *Indian Journal of Plant Sciences* 3 (2) 76-80 ISSN: 2319–3824(Online).
27. Ranjana Das, A.K.Gogoi*, M.Chutia and K.Das.(2014) "Emerging disease and pest scenario in Muga silkworm (*Antheraea assamensis*) under the impact of climate change" 23rd International Congress on Sericulture & Silk Industry to be held on 24-27 November 2014 at Bangalore.
28. Aparupa Borgohain, Ranjana Das and Kalyan Dutta: (2015) Occurrence of entomopathogenic fungus on muga silkworm in Jorhat district of assam, *Mun. Ent. Zool.* 10, (2) 518-520.
29. Ranjana Das mand K. Das (2016) Effect of abiotic factors on infestation of uzifly, (*Exorista sorbillans* wiedemann) in different instar muga silkworm, *Antheraea assamensis*. *Mun. Ent. Zool.* 11(1),87-89