

Dr. Sinam Subharani Devi, M.Sc, Ph.D

Scientist-D

Regional Sericultural Research Station

Central Silk Board, Ministry of Textiles: Govt. of India

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Academic Qualification: M.Sc. in Life Sciences (Zoology)

Ph.D. in Life Sciences (Entomology)

Area of Research Interest:

- ✓ Insect bio-ecology
- ✓ Insect pest and disease management
- ✓ Silkworm seed production.

Professional experiences:

- ✓ **Scientist-D** in Regional Sericultural Research Station (RSRS), Central Silk Board, Govt. of India, Mantripukhri, Imphal (2020 to present).
- ✓ **Scientist-C** in Regional Sericultural Research Station (RSRS), Central Silk Board, Govt. of India, Mantripukhri, Imphal (2015 - 2019).
- ✓ **Scientist-B/C & Incharge**, P3 Unit, Muga Silkworm Seed Organization (MSSO), Central Silk Board, Govt. of India, Narayanpur, Assam (2010-2015).
- ✓ **Information Officer** in Institute of Bioresources and Sustainable Development (IBSD), Department of Biotechnology, Takyelpat, Imphal, Manipur (2006-10).
- ✓ **MOEF-Senior Research Fellow** in Department of Life Sciences, Manipur University, Imphal, Manipur (2005-06).
- ✓ **MOEF - Junior Research Fellow** in Department of Life Sciences, Manipur University, Imphal, Manipur (2003-05).
- ✓ **CSIR – Project Assistant** in Department of Life Sciences, Manipur University, Imphal, Manipur (2001-03).

Achievements during academic career:

Distinction:

- ✓ 1st position in M.Sc Life Sciences Examination, 2000.
- ✓ 1st position in M.Sc Zoology Examination, 2000.

Awards/Honours/Fellowship:

- ✓ **Recipient of Gurumayum Ongbi Pishak Devi Memorial Gold Medal** for securing 1st position in M.Sc Life Sciences Examination, 2000 conferred by Manipur University.
- ✓ **Awardee of Dr. Th. Gobardhon Singh Memorial Gold Medal** for securing 1st position in M.Sc Zoology Examination, 2000 by Manipur University.
- ✓ **MOEF- Senior Research Fellowship (SRF)** in 2005-06.
- ✓ **MOEF- Junior Research Fellowship (JRF)** in 2003-05.

Projects Handled:

Concluded Projects:

- ✓ **ARP: 3606:** Development of a diagnostic tool for early detection of baculovirus causing Tiger band disease in *Antheraea proylei*” funding agency DBT, New Delhi; (Duration 3 years as PI).
- ✓ **ARE: 4726:** Bio-ecology, economic injury level and management of insect pest infesting oak ecosystem; funding agency CSB, Bangalore; (Duration 3 years as PI).

Ongoing Projects:

- ✓ Studies on population diversity and role of host plant volatiles cues for enhancing egg laying in temperate tasar silk moth (*Antheraea proylei*) funding agency DBT, New Delhi (Duration 3 years as PI).
- ✓ **APR: 05008SI:** Standardization of Rearing and Grainage Technologies of *Antheraea frithi* Moore; funding agency CSB, Bangalore; (Duration 3 years as CI).
- ✓ **AIB: 05009SI:** Isolation of thermo-tolerant line(s) of Oak tasar silkworm *Antheraea proylei* J; funding agency CSB, Bangalore; (Duration 3 years as CI).

Important publications:

Research:

1. **Subharani, S** and Singh, T. K. (2009). Population dynamics and influence of abiotic factors on the pod borer complex of pigeonpea in Manipur. *Indian Journal of Entomology*, 71 (3): 215-218.
2. **Subharani, S.**, Nonita, M., Singh, T. K and Radhakrishore, R.K. (2010). Seasonal incidence and spatial distribution of cotton aphid, *Aphis gossypii* Glover on Brinjal var. Pusa Purple Round. *Journal of Experimental Zoology*, 13 (2): 431-434.
3. **Subharani, S** and Singh, T. K. (2011) Assessment of spatial distribution pod borer, *Cydia ptychora* (Meyrick) on pigeonpea . *Journal of Ecology and Natural Environment*. Vol (II) pp360-364.
4. **Subharani, S.**, Bhattacharya, A., Prabhakar C.J and Singh, T.K. (2012) . First Report on consumption of moths of muga silkworm (*Antheraea assamensis*) (*Helper*) as food for human consumption. *UPIZ* 31 (2).
5. **Subharani, S** and Jayaprakash, P (2015) High Altitude Rearings: A ray of hope for Muga Industry. *Int.J.Curr.Microbiol.App.Sci* 38(1):101-104.
6. **Subharani, S.**, Sur Chaudhuri, R., Keisa, T. J., Devi, B.L and Sinha., A.K.(2016) Population dynamics of uzi flies on oak tasar silkworm, *Antheraea proylei* Jolly in Manipur. *Sericologia* 56(4): 149-153.
7. **Subharani, S.**, Debaraj, Y., Devi, B.L. and Sinha, A.K. (2017) Rearing performance of Indian temperate tasar silkworm, *Antheraea proylei* Jolly fed on *Quercus serrata* (Carruther), *Quercus griffithii* (Hook and Thomson) and *Lithocarpus dealbata* (Hook and Thomson) during autumn crop. *Mun.Ent.Zool* 12(2):612-617.
8. **Subharani, S.**, Debaraj, Y., Devi, B.L. and Sinha, A.K. (2018) New record of *Aristobia approximator* Thomson (Coleoptera:Cerambycidae) as a pest of *Quercus serrata* in Manipur, India. *Mun.Ent.Zool* 13(1):344.
9. **Subharani, S.**, Debaraj, Y., Chaudhuri, R. S. & Ibotombi Singh, N.(2019) Biology and morphometrics of *Phalera raya* Moore (Lepidoptera: Notodontidae) infesting *Quercus serrata* Thunb. *Mun.Ent.Zool* 14 (2): 643-647.
10. **Subharani, S.**, Priyadarshini, O & Debaraj, Y (2020) Biology of semilooper, *Hyblea puera*: An important pest of *Quercus serrata* Thunb. *Annals of Plant Protection Science* 28 (2): 123-126.

Book Chapters:

1. **Subharani, S.** and Singh, T.K. 2006. Life table, intrinsic rate of increase and stable-age distribution of *Exelastis atomosa* Walshingham on Pigeonpea. *Adv. Indian Entomol. : Productivity & Health, Vol.I, pp.41-46.*

Booklets

1. Oak Tasar Technologies at a Glance.
2. FAQ on Central Seed Act in Bilingual (English/Manipuri) pp. 1-28.
3. Sodium hypochlorite disinfection: An effective disinfection for silkworm eggs to protect against tiger band disease, in Bilingual (English/Manipuri) pp. 1-10.
4. Sodium hypochlorite disinfection: An effective disinfection for silkworm eggs to protect against tiger band disease, in Bilingual (English/Hindi) pp. 1-11.
5. Integrated Pest Management of uzi fly: A serious pest of oak tasar silkworm, in Bilingual (English/Manipuri) pp. 1-10.
6. Oak Tasar silkworm rearing technology in Bilingual (English/Manipuri) pp. 1-8.
7. Management of major insect pest infesting *Quercus serrata* Thunb, in Bilingual (English/Manipuri) pp. 1-6.
8. Management of tiger band disease in oak tasar culture (English/Manipuri).

Technology Developed:

1. Sodium hypochlorite egg disinfection technique for control of tiger band disease in oak tasar silkworm.
2. PET bottle trap for control of uzi fly infesting oak tasar silkworm.
3. Biopesticides for control of insect pests infesting *Quercus serrata*.
4. IPM for control of uzi fly in oak tasar culture.

Trainings:

1. Participated research oriented training course on "Mass Production of Biological Control Agents" conducted at IARI, New Delhi from 4th to 12th April, 2001.
2. Participated training on "Crop and Vegetable Pests and Integrated Pest Management" at Kolkata, West Bengal from 20th to 23rd, March 2002, organized by the Zoological Society, Kolkata and Ramkrishna Ashram Krishi Vigyan Kendra, Nimpith (recognized by IARI, New Delhi).
3. Participated a "Training Workshop on Basic Statistics and its Application" held at Institute of Bioresources and Sustainable Development, Imphal, Manipur from 16th -21st August, 2010.
4. Attended training programme for Young Scientist in CSB at National Academy of Agricultural Research Management (NAARM), Hyderabad from 3rd January to 18th January 2011.
5. Attended training programme on RTI, 2005 for CPIOs/APIOs at R.O, CSB, Kolkata from 20-21st Dec, 2012.
6. Attended training on Quarantine procedures organised by SSPC, CSB, Bangalore from 16th to 18th June, 2015.
7. Attended training on Social Responsibility of Scientists and Technologists: Pathways and Outcomes" organized by Xavier School of Human Resource Management, Bhubaneswar from 18th - 22nd November 2019.

Memberships (Professional Associations/Societies):

1. Life Member, Indian Science Congress Association, Kolkata, West Bengal.
2. Member of Society of plant protection science, IARI, New Delhi.
3. Entomological Society of India, New Delhi.
4. The Uttar Pradesh Zoological Society, Muzaffarnagar.
5. The Aphidological Society, India, GU, Gorakhpur.