

Dr. Mahesh D S

Scientist

Central Muga Eri Research & Training Institute
Central Silk Board
Ministry of Textiles: Govt. of India
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Areas of research interest and working

- ✓ Silkworm rearing technologies and improvement.
- ✓ Silkworm seed production.
- ✓ Host plant production and improvement.
- ✓ Value addition byproduct utilization in Sericulture.

Educational qualification:

Degree	University	Year of completion	Percentage
Ph.D in Sericulture	UAS, GKVK, Bengaluru	2017	92.70 %
M.Sc. (Agri.) in Sericulture	UAS, GKVK, Bengaluru	2014	93.10 %
B.Sc. (Agri.)	College of Agriculture, V C Farm, Mandya under UAS, GKVK, Bengaluru	2012	74.60 %

Research work experiences

2018- till date Scientist, Central Muga Eri Research & Training Institute, Central Silk Board, Ministry of Textiles, Govt of India (Regular position since 1st November 2018).

2017-2018 Scientist (Sericulture), Krishi Vigyan Kendra (KVK), V.C.Farm, Mandya under UAS, GKVK, Bengaluru.

2015-2017 Junior Research Fellow (UAS, GKVK, Bengaluru)

Awards / Honor / Fellowship

- a) Honored with **Young scientist award** from AEDS, India (2020).
- b) Awarded **UAS Gold Medal** for Ph.D from UAS, GKVK, Bengaluru (2017).

Projects undertaken

SL. No.	Title of the project	PI / Co-I	Funding agency	Project duration	Amount (in Lakhs)
1.	Standardization of chawki rearing practices for Eri silkworm, <i>Samia ricini</i>	PI	CSB, Ministry of Textile, Govt. of India	3 years	18.15
2.	Utilization and diversification of silkworm pupae products for human & animal consumption and composting	PI	CSB, Ministry of Textile, Govt. of India	2 years	155.02
3.	Breeding of muga silkworms for improved silk quality and disease tolerance	CI	CSB, Ministry of Textile, Govt. of India	3 Years	18.32
4.	Biology, population dynamics and control of <i>Sycanus collaris</i> Fab. and <i>E. furcellata</i> Wolff (Insecta: Heteroptera) -potential predators of Muga silkworm	CI	CSB, Ministry of Textile, Govt. of India	2 Years	9.40
5.	Loose egg production in Ericulture	PI	CMER&TI (CSB)	6 months	-

Position of responsibility

Incharge : Germplasm Conservation Centre (GCC), Chenijan Farm, CMER&TI, Central Silk Board.

Nodal Officer : Sericulture Resource Centre, Jaljori, Golaghat district, Assam.

Publications

- 1) **Mahesh, D. S.** and Arunkumar, K. P. (2020), Status of ericulture in Northeast India, *Insect Environment*, 22:68-69.
- 2) **Mahesh, D.S.**, Muthuraju, R., Vidyashree, D.N., Vishaka, G.V., Narayanaswamy, T.K. and Subbarayappa, C.T. (2020), Silkworm pupal residue products foliar spray impact in silkworm (*Bombyx mori* L.), *Journal of Entomology Zoology Studies*, SP-8(4):38-41.
- 3) **Mahesh, D.S.**, Narayanaswamy, T.K., Muthuraju, R., Vidyashree, D.N. and Subbarayappa, C.T. (2020), Influence of silkworm pupal residue biocompost (SPRB) on growth and yield parameters of mulberry, *International Journal of Agriculture Sciences*. 12(2): 9464-9466.
- 4) **Mahesh, D.S.**, Muthuraju, R., Vidyashree, D.N., Narayanaswamy, T.K. and Subbarayappa, C.T. (2020), Effect of silkworm pupal residue protein (SPRP) and silkworm pupal residue extract (SPRE) spray on major and micronutrients status of mulberry, *Ind. J. Pure App. Biosci.* 8(1):110-114.
- 5) G. V. Vishaka, T. K. Narayanaswamy, D. N. Vidyashree, R. Muthuraju and **D. S. Mahesh.** (2020), Investigations on utilization prospects of silkworm (*Bombyx mori*

- L.) pupal residue bio soft descent (SPRBD) as nutrient source for tomato crop, *J. Exp. Zool. India*, 23(2): 1165-1170.
- 6) Madhu, H.R., A.D.Ranganatha, G. Nagesha., and **Mahesh, D.S.** (2020), Knowledge difficulty index and attitude level of farmers about soil health card in Mandya district of Karnataka, *Ind. J. Pure App. Biosci.* 8(3):594-601.
 - 7) Madhu, H.R., A.D.Ranganatha, G. Nagesha., and **Mahesh, D.S.** (2020), Personal, socio-economic and psychological characteristics of the soil health card beneficiaries in Mandya district of Karnataka, *International Journal of Agriculture Sciences*. 12(13): 10008-10011.
 - 8) Madhu, H.R., A.D.Ranganatha, G. Nagesha., and **Mahesh, D.S.** (2020), A study on knowledge and attitude of farmers and constraints faced by them on soil health cards in Mandya district of Karnataka, *Ind. J. Pure App. Biosci.* 8(3):727-736.
 - 9) **Mahesh, D.S.**, Muthuraju, R., Vidyashree, D. N., Narayanaswamy, T.K. and Subbarayappa, C.T., 2018, Influence Of Silkworm Pupal Residue Biocompost (Sprb) On Growth And Yield Parameters Of V-1 Mulberry. *Adv. Biores.*, 9(4):102-106.
 - 10) **Mahesh, D.S.**, Doreswamy, C., Chikkalingaiah, Ramakrishna Naika, Subbarayappa, C. T. AND Venkatesh, M. Rearing Performances of PM X CSR₂ Fed With Mulberry Raised Through Different Organic Manures. *Adv. Biores.*, 9(5):117-120.
 - 11) Atheekur Rehman, H.M, Ranganatha, A.D., Kowsalya, K.S., and **Mahesh, D. S.** INTEGRATED FARMING SYSTEM FOR SUSTAINABILITY, *Adv. Biores.*, Vol 9 (5) 2018: 197-200.
 - 12) **Mahesh, D. S.**, Muthuraju, R., Vidyashree, D. N., Narayanaswamy, T. K., Subbarayappa, C. T. and Ramakrishna Parama, V. R., 2017, Influence of Silkworm pupal residue biocompost (SPRB) on chemical and biochemical traits of V-1 mulberry. *Trends in Biosci.*, 10(36): 7530-7534.
 - 13) **Mahesh, D. S.** and Narayanaswamy, T. K., 2017, Bio responses of mulberry to foliar spray of silkworm (*Bombyxmori*. L.) pupal protein. *Mysore. J. Agric. Sci.*, 51 (3): 660-665.
 - 14) **Mahesh, D. S.**, Vidhathri, B. S., Vidyashree, D. N., Narayanaswamy, T. K., Muthuraju, R. and Subbarayappa, C. T. 2015, Mulberry biochemical composition (*Morus* spp.) – A Review. *Int. J. Curr. Microbiol. App. Sci.* 6(7): 2207-2217.
 - 15) **Mahesh, D. S.**, Vidhathri, B. S., Narayanaswamy, T. K., Subbarayappa, C. T., Muthuraju, R. and Shruthi, P., 2015, A Review – Bionutritional Science of Silkworm Pupal residue to Mine New ways for utilization. *Int. J. Adv. Res. Biol. Sci.*, 2(9): (2015): 135–140. (Impact Factor: 1.615).
 - 16) Vidhathri, B. S., Ramakrishna Parama, V. R., Subbarayappa, C. T., Narayanaswamy, T. K., Muthuraju, R., **Mahesh, D. S.** and Vidyashree, D. N., 2017, Isolation and detection of alpha linolenic acid from silkworm pupal residue oil (*Bombyxmori* L.) using HPLC. *Int. J. Curr. Microbiol. App. Sci.* 6(7): 2202-2206. (NAAS Rating: 5.38).
 - 17) Madhuri Thinnaluri, Bhaskar, R. N., **Mahesh** and Narayanaswamy, K., 2014, Effect of plant products on incidence of tukra on mulberry. *Int. J. Develop. Res.*, 4(8): 1485-1490.
 - 18) Madhuri Thinnaluri, Bhaskar, R. N., **Mahesh** and Narayanaswamy, K., 2014, Evaluation of botanical extracts on the repellency property against the pink mealy

- bug, *Maconellicoccushirsutus* (green) in mulberry. *Int. J. Develop. Res.*, 4(8): 1504-1507.
- 19) Madhuri Thinnaluri, Bhaskar, R. N., **Mahesh** and Narayanaswamy, K., 2014, Effect of plant products on morphological parameters of tukra affected mulberry leaves, *Int. J. Sci. & Res. Pub.*, 4(8): 1-6.
 - 20) **Mahesh, D. S.** and Doreswamy, C., 2015, Effect of different organic manures on soil properties in relation to growth and yield of mulberry and cocoon productivity. *Mysore. J. Agric. Sci.* 49(1): 157.
 - 21) Vidhathi, B. S., Ramakrishna Parama, V. R., **Mahesh, D. S.**, Vidyashree, D. N., Narayanaswamy, T.K., Muthuraju, R. 2017, Isolation and analysis of alpha linolenic acid from mulberry silkworm pupal oil., XIII Agricultural science congress, p. 35.
 - 22) Shantahnu, K., Muthuraju, R., Vidyashree, D. N., **Mahesh, D. S.**, Narayanaswamy, T. K. and Subbarayappa, C.T., 2017, Isolation and characterization of silkworm pupal residue degrading microorganisms. XIII Agricultural science congress, p. 34.
 - 23) Vidhathi, B. S., Vijayalakshmi, Vishaka, G.V., Narayanaswamy, T. K., **Mahesh, D. S.** Muthuraju, R., and Vidyashree, D. N., 2017, Silkworm pupal residue value added products for human consumption. XIII Agricultural science congress, p. 34.

Training/Workshops

1. Participated in an International web conference on “New Trends in Agriculture, Environmental & Biological Sciences for Inclusive Development” from 21st to 22nd June, 2020 organized by AEDS, India and published a paper in the special issue of Journal of Entomology and Zoology Sciences.
2. Participated in a webinar on “Mechanization in Sericulture” on 2nd September, 2020 organized by Department of studies in Sericulture science, University of Mysore, Manasa Gangothi, Mysuru.
3. Participated in a webinar on “GC-MS Basics and Instrumentation” jointly organized by KIIT-Technology Business Incubator and Agilent Technologies from 27th-28th May 2020.
4. Participated in “Orientation training on Seed Act Implementation” from 18th to 19th January, 2019 at CMER&TI, Central Silk Board, Lahdoigarh, Jorhat, Assam.
5. Participated in “Nuts & bolts of innovation entrepreneurship training on Building translating innovative ideas” conducted by BRTC, A BIRAC-KIIT-TBI Initiative at CSIR-NIEST, Jorhat on 19th to 20th September, 2019.

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