

## PUBLICATIONS

### Research Papers

1. Alam K, Manjunatha GR, Mishra S K and Sivaprasad V. 2020. Impact of hydrogel with drip irrigation on mulberry production in Odisha. ***Sericologia***, 60 (1&2):1-5.
2. Alam K, Mishra SK and Sivaprasad V.2020. Studies on evaluation and identification of suitable bivoltine hybrids (*Bombyx mori* L.) for better productivity in Odisha. ***Journal of Pharmacognosy and Phytochemistry***. 9(4):990-994.
3. Bhattacharjya D, Alam K, Bhumali A and Soumen Saha. 2020. Status, potentials, constraints and strategies for development of sericulture farming system in West Bengal state of India (review) ***Bulg. J. Agric. Scie.***, 26(4):709-718.
4. Chakrabarty S, Manna B and Saha AK. 2021. *Nosema asamensis*: A pathogen causing pebrine disease of muga silkworm and recent strategy adopted for sustainable development of muga culture in North Eastern India. ***Journal of Exp. Zoology***, 24:7-13. <https://connectjournals.com/03895.2021.24.7>
5. Chandrakanth N, Moorthy SM and Sivaprasad V. 2021. Molecular diversity between two indigenous silkworm races of *Bombyxmori* L. ***Munis Entomology & Zoology***, 16(2): 798-806.
6. Chinnappa B, Kiran Kumar R Patil, Manjunatha GR and H S Soumya. 2020. Economic Utilisation of Areca Leaf Sheaths for Rural Livelihood. ***Indian Journal of Agricultural Economics***, 75(1), 90-110.
7. M Kumar, LM Bhar, A Majumder and Manjunatha GR. 2020. Robust Block Designs for Comparing Test Treatment versus control with Correlated Observations. ***Journal of the Indian Society of Agricultural Statistics***, 74 (2), 159-164
8. Mahesh R, Pappachan A, Chakravarty, D., and Sivaprasad V. 2020. Improved mulberry productivity and resource efficiency through low-cost drip fertigation. ***Archives of Agronomy and Soil Science***, 1-5 (<https://doi.org/10.1080/03650340.2020.1852552>)
9. Makwana P, Rahul K, Chattopadhyay S and Sivaprasad V. 2021. Effect of thermal stress on antioxidant responses in *Bombyxmori*. ***Chemical Science Review and Letters***, (ISSN 2278-6783). 10(38):288-294.
10. Manjunatha GR, Patil KKR, Afroz S, Pandit D, Sivaprasad V. 2020. Profitability of Mulberry cocoon production in West Bengal. ***Indian Journal of Economics and Development***, 8(3): 22-29.
11. Neog K, Dutta P, Das R and Sivaprasad V. 2021. Effects of commonly used plant protection formulations on rearing and cocoon production of muga silkworm *Antheraea assamensis* (Helfer). ***Munis Entomology & Zoology***, 16 (1): 331-350.

12. Pappachan A, Rahul K, Irene L and Sivaprasad V. (2020). Molecular identification of fungi associated with mulberry root rot disease in eastern and north-eastern India, ***Journal of Crop and Weed***, 16(1):180-185.
13. Parameswaranaik J, Sarsiim Teron, Manjunatha GR, Radha M B and Sivaprasad V. 2020. Entrepreneurial Behaviour of Ericulture Farmers in Assam (BTC) North-East India. ***Journal of Global Communication***, 13 (2):117-122.
14. Patil KKR, Chinnappa B, Manjunatha GR. 2020. Comparative economics of mechanical and manual dehusking of Arecanut. ***Indian Journal of Economics and Development***, 8(3):1-9.
15. Prabhuling S H, Makwana P, Pradeep ANR, Vijayan K and Mishra RK. 2021. Release of mediator enzyme  $\beta$ -hexosaminidase and modulated gene expression accompany hemocyte degranulation in response to parasitism in the silkworm *Bombyxmori*. ***Biochemical Genetics***.Doi: <https://doi.org/10.1007/s10528-021-10046-x>.
16. Rahul K, Behera GK, Pappachan A, Rabha M and Sivaprasad V. 2021. *Bacillus flexus* isolated from *Harmonia axyridis* (Pallas) causing bacteriosis in *Bombyx mori* L. ***Proceedings of International Conference on Advances in Science and Technology***, 219-224.
17. Saha S, Alam K, Adhikari S and Ghosh P. 2020. Efficiency and reliability of random DNA markers (RDMs) for evaluation of genetic variability and relationship in ocimum accessions. ***Plant Gene*** 23. PP.1-17.
18. Shafi A, Singh R, Nain M S, Mishra J R, Kumar P, Khan S A and Iquebal M A. 2020. SWOT-Analytic Hierarchy Process (AHP) of Agriclincs and Agribusiness Center (ACABC) scheme; ***Indian Journal of Agricultural Sciences***, 91(6):96-100.
19. Singh, Amardev, Himntraj MT and Alam K. 2020. Acceleration of natural mounting process in the silkworm (*Bombyx mori* L.) By applying dust formulation of dried eucalyptus leaves. ***Journal of Pharmacogonosy and Phytochemistry***. Sp 9(4):146-149.
20. Sivaprasad V and Manjunatha GR. 2020. ROBEVA-Bm: A Robust Multivariate Evaluation Method for Selecting Silkworm Genetic Resources. ***Sericologia***, 60 (3&4):75-95.
21. Sivaprasad V, Satish L, Mallikarjuna G, Chandrakanth N, Mary Josepha A V and Moorthy S M. 2021. A field-friendly loop-mediated isothermal amplification (FF-LAMP) method for rapid detection of Nosemabombycis in silkworm, *Bombyxmori*. ***Invertebrate Survival Journal***, 18, 66-74. (Impact factor 0.70)
22. Suresh K, Yallappa H, Pappachan A, Laskar M, Manjunatha G R,Chakravarthy D and Sivaprasad V. 2021. Selection of mulberry genotypes for rainfed conditions through principal component analysis. ***Int. J. Curr. Microbiol.App.Sci.***, 10(01): 2762-2778.
23. Vijay V, Mahesh R, Sayantan Manna, Arunima Banerjee, Anil Pappachan, Manjunatha GR, Soumen Chattopadhyay and Sivaprasad V. 2021. Soil nutrient status of mulberry

(*Morus* species) growing fields in West Bengal, India. ***International Journal of Current Research***, 13(6):18058-18066.

### **Papers Presented in Conferences/Seminars/Symposia etc. (Online)**

#### **International online conference on recent trends in agriculture, biosciences, computer applications, environment & humanities (18-19 Aug 2020 @ Poonch, Jammu & Kashmir)**

Alam, K., Singh, A. and Saha, S. 2020. Diversity in cocoon and associated parameters in two different Tasar (*Antheraea mylitta* D.) ecoraces of simlipal Biosphere Reserve, Odisha

#### **International e-Conference on the Effect of COVID-19 Pandemic on Agriculture and Allied Sectors, Society for Science and Nature (SFSN), Lucknow, Rajkiya Engineering College Ambedkar Nager U.P., Oura Prakashan & Books Distributors Pvt. Ltd. (23-24<sup>th</sup> Aug 2020)**

Kartik Neog<sup>1</sup> and V. Sivaprasad. 2020. Impact of Covid-19 on the Sericulture Production in Nagaland.

Manjunatha GR, Kiran Kumar R Patil, Kumaresan P, Parmeswaranaik J, Dipesh Pandit, Sivaprasad V and Chinnappa B. 2020. An Impact Analysis of COVID-19 on Profitability of Sericulture in Karnataka

#### **International Conference on Advances in Food and Agricultural Science and Technology (VICAFast 2020) organised by Chemical Science Review and Letters on 31st October 2020.**

Makwana P., Rahul, K., Chattopadhyay, S. and Sivaprasad, V. 2020.. Effect of thermal stress on antioxidant responses in *Bombyx mori*

#### **In AMI-2021 Conference on Microbial World: Recent Development in Health, Agriculture & Environmental Sciences held on 3<sup>rd</sup> to 5<sup>th</sup> Feb 2021**

Kopparapu, A. and Sivprasad V. 2021. Simplification of Soil Microbiological techniques to promote technology translation in Agriculture & Allied Sectors.

#### **Abstracts:**

#### **International E-Conference on Genetics & Plant Breeding Research in Post Covid-19 era**

Yallappa H, Deepika KU, Padmini B, Suresh K., D. Chakravarty and V. Sivaprasad. 2020. Comparative performance of physiological and biochemical traits of different mulberry varieties. p. 104

#### **International E-Conference on Advances and future outlook in biotechnology and crop improvement for sustainable productivity**

Suresh K, Yallappa H, Deepika U K, Manjunath G R and Sivaprasad V. 2020. Principle component analysis and selection index for identification of superior mulberry genotypes under rainfed condition. Abs. p. 154.

**International E-Conference on "Advances and future outlook in biotechnology and crop improvement for sustainable productivity"**

Ramesha, A., Dubey, H., Vijayan, K., Ponnuvel, K.M., Mishra, R.K. and Suresh, K. 2020. Genome wide characterization of MLO genes involved in powdery mildew disease susceptibility in mulberry. p.230.

**Popular Articles:**

सुभ्रा चंद, शफी अफरोज, विपद कर्मकार, दिबयेन्दु सरकार व कणिका त्रिवेदी. 2020. खुले कीट पालन गृह के लाभ, **Indian Silk**. 11(2): 44-46

Afroz S. and Singh, R. 2021. Cultivation of Superfood – Spirulina (Blue Green Algae): An Agribusiness Outlook; **Food & Scientific Report (FSR)**. ISSN-2582-5437

Mahesh R, Debashis C and Sivaprasad V. 2020. Drip Fertigation in Mulberry Sericulture, **Resham Bharti**, CSB, June Issue: 26-27.

Parmeswaranaik J and Manjunatha GR. 2021. A Persons' Dream, Hope & Succession Sericulture in Arunachal Pradesh. **Agriculture Observer**, 2 (2): 69-70.

Saha, A.K., Biswas, T.D., Chakarbarty, S., Das,D., Das, S., and Kumar, N. S. 2020. Open rearing method–New boulevard for sustainable sericulture in West Bengal, **Indian Silk**, 11(3): 6-9

**Online Research Programme /Training Programme attended:**

**Online Basic Course in Mass Spectrometry-based Proteomics** (3-4 Aug 2020 by C-CAMP, Bangalore)

- Dr. Pooja Makwana, Scientist-C, CSRTI-Berhampore (WB).

**Research Methodology on Social Science** (10 days w.e.f.01.09.2020 by ICAR & AAU-Anand via CAAST platform)

- Dr. Manjunatha GR, Scientist-C, CSRTI-BHP (WB)

**Chawki Rearing Training Programme** (1-6 Feb 2021 at Ummulong, West Jaintia Hills by REC-Shillong)

- Dr. Suresh S., Scientist-C, CSRTI-Berhampore (WB)

**Efficient Tools for Effective Research Communication and Publication** (12-14 June by WFPC-USA)

**Leadership & Team Building** (17<sup>th</sup> June 2020 by NPC, New Delhi)

**Stress Free Success by Enhancing Personal Productivity** (18<sup>th</sup> June 2020 by NPC, New Delhi)

**IMMUNO - Nutrition, Wellness Management & Livelihood Change** (3-5 July 2020 by AICRP on Women in Agriculture, Assam Agricultural University, Jorhat In association with ICAR- CIWA, Bhubaneswar)

**Response of the Start Up Community to COVID-19** (6 July 2020 by Dept of Biotech, GOI)

**Emotional Intelligence at Workplace for Scientists/ Technologists** (21-25 Sept 2020 by DST-New Delh)

**1<sup>st</sup> Eri Silk Village of Umden-Diwon** (12<sup>th</sup> Feb 2021 by Department of Textiles, Nagaland)

**Extension Management Approaches for promotion of Sericulture Industry** (24-26 March 2021 by MANAGE)

- Dr. K. Neog, Scientist-D, REC-Dimapur

**Extension Management Approaches for Promotion of Sericulture Industry** (15-18 Dec 2020 NIAEM-Hyd)

- Dr. C.Z Renthelie, Sci-D, REC-Shillong
- Dr. L. Pachao, Sci-D, REC-Aizwal
- Dr. P Kumaresion, Sc-C, RSRS-Jorhat

**Development of Resource Person** (25<sup>th</sup> Feb 2021 by District Sericulture Officer, West Jaintia Hills and 8<sup>th</sup> March 2021 by District Sericulture Officer, Ri-Bhoi)

- Dr. C.Z. Renthelli, Scientist-D, REC-Shillong.
- Mr. P. Kumareshan, Scientist-C, RSRS, Jorhat, Assam

### **Manuals/Books/Book Chapters**

Manjunatha GR, Kiran Kumar R Patil, Kumaresan P, Parmeswaranaik J, Dipesh Pandit, Sivaprasad V and Chinnappa B. 2020. Impact Analysis of COVID-19 on Profitability of Sericulture in Karnataka, *Effect of COVID-19 pandemic on Agriculture & Allied Sciences* (ISBN: 978-81-935728-8-7). Oura Prakashan & Book Pvt. Ltd. pp.174-181.

Rahul K, Manjunatha GR and V Sivaprasad. 2021. Pebrine monitoring methods in sericulture, **Methods in Microbiology** (ISBN: 978-0-12-821145-8), **Elsevier**. Vol.49, pp.79-95

Chandrakanth N, Makwana P, Satish L, Mihir R & Sivaprasad V. 2021. Molecular approaches for detection of pebrine disease in sericulture. **Methods in Microbiology** (ISBN: 978-0-12-821145-8), **Elsevier**. Vol.49, pp.47-77.

Sivaprasad V, Rahul K and Pooja M. 2021. Immunodiagnosis of silkworm diseases, **Methods in Microbiology** (ISBN: 978-0-12-821145-8), **Elsevier**. Vol.49, Pp.27-46.

### **CSRTI-Berhampore Magazine/Books**

News & Views - Half Yearly R&D News Bulletin [English/Hindi; Vol.14 (1&2); 2020-21

East & North East Mulberry Sericulture Technology Descriptor CSRTI-Berhampore Publisher.pp.60 (English/ Hindi/ Bengali)

Sericulture Success Stories Eastern & North Eastern States CSRTI-Berhampore Publisher.pp.56.

<b>Sequences pulished in NCBI</b>			
<b>Accession number</b>	<b>Identified organism</b>	<b>Source</b>	<b>Scientists involved</b>
MW774362	<i>Fusarium solani</i>	Mulberry root (Pipulkhola, West Bengal)	Anil Pappachan, Raviraj, V.S., Sahdeb, R., Rahul, K. and Sivaprasad, V
MW774361	<i>Fusarium solani</i>	Mulberry root (Kanupur, West Bengal)	
MW774359	<i>Fusarium solani</i>	Mulberry root (Balashpur, West Bengal)	
MW774360	<i>Lasiodiplodia theobromae</i>	Mulberry root (Balashpur, West Bengal)	