PUBLICATIONS

Research Papers (International):

1. Alam, K., Babu, H., Monir, S. and Sivaprasad, V. (2021). Evaluation of bivoltine silkworm breeds (*Bombyx mori* L.) for cocoon and associated characters under Koraput conditions, Odisha. *Journal of Entomology and Zoology Studies*, 9(3): 218-222.
2. Alam, K., Raviraj, V. S., Chowdhury, T., Bhuimali, A., Ghosh, P. and Saha, S. (2021). Application of biotechnology in sericulture: Progress, scope and prospect. *The Nucleus* (1-22), https://doi.org /10.1007/s13237-021-00355-2 (Springer).
3. Chakrabarty, S., Saha, A. K., Nirmal Kumar, S. and Kishor Kumar, C.M. (2022). Role of Synbiotic Induction to Prevent Common Diseases of Silkworm, *Bombyx Mori* L. *Int. Journal of All Research Education and Scientific Methods (IJARESM),* ISSN: 2455-6211, 10 (2): Feb., 2022.
4. Chakrabarty, S., Hussain, Z., Kishor Kumar, C.M., Saha, A. K. and Nirmal Kumar, S. (2022). Studies on various sources responsible for spread of pebrine disease in traditional districts of West Bengal, India. *Int. Journal of All Research Education and Scientific Methods (IJARESM),* ISSN: 2455-6211, 10(3): Mar., 2022.
5. Chandrakanth, N., Devi, T.R., Verma A.K., Lakshmanana, V., Pradeep, A. R. and Sivaprasad, V. (2021). Improved cross breed of silkworm, *Bombyx mori* suitable for Eastern India, developed through congenic breeding. *Sericologia*, 61: 1-13.
6. Kumaresan, P., Sivaprasad, V. and Manjunatha, G.R. (2021). Efficacy of integrated barrier system for management of pink mealy bug *Maconellicoccus hirsutus* (Green) in mulberry. Biological Forum-*An International Journal. ISSN No.(Online):*0975-1130, ISSN No.(Print):2249-3239: 13(4)537-541.
7. Makwana, P, Dubey, H., Pradeep, A. R., Sivaprasad, V., Ponnuvel, K. M. and Mishra, R. K. (2021). Dipteran endoparasitoid infestation actively suppressed host defense components in hemocytes of silkworm *Bombyx mori* for successful parasitism. *Animal Gene,* 22, 2021. https://doi.org/10.1016 /j.angen.2021.200118.
8. Manjunatha, G. R, Lalrinnungi, Kiran Kumar, Patil, R., Parameshwarnaik, J. and Sivaprasad, V. (2021). Employability of Sericulture PG Diploma Holders in East and North-East India. *Sericologia*. 61 (1&2): 34-44.
9. Mandal, A.K., Sarkar, B., Mandal, H., Chakraborty, A. P., Das, P.K., Dam, M. P., Mondal, R., Some, S., Sadat, A., Ghati, A., Neog, K., Mandal, S. and Ince, I. A. (2022). Draft genome sequence of a multi-drug resistant strain Enterobacter sp. ASE isolated from the gut of an infected *Bombyx mori* L. *Microbiology, an international journal* (accepted).
10. Pegu, B. K., Kardong, D. and Gogoi, D. K. (2021). Purification and characterization of α-Lrhamnosidases from *Bacillus amyloliquefaciens*-D1. *Asian J. of Biol. & Life Sci.* Vol. 10 (2): 455- 458.
11. Pegu, B. K., Kardong, D., Chutia, J. and Gogoi, D. K. (2021). Microbial naringinase and its applications in debittering technology – A mini review applications of microbial naringinase. *Biosc. Biotech. Res. Comm*. 14 (2): 493-498.
12. Makwana, P., Rahul, K., Chattopadhyay, S. and Sivaprasad, V. (2021). Effect of thermal stress on antioxidant responses in *Bombyx mori L. Chemical Science Review and Letters*, 10(38): 288-294.
13. Ranjita Devi, T., Chandrakanth, N., Verma, A.K., Sivaprasad, V. and Kishor Kumar, C.M. (2022). Development of productive multivoltine and bivoltine congenic breeds suitable

for Eastern and North-Eastern India. *Int. Journal of All Research Education and Scientific Methods (IJARESM), 10 (3):1401-1407.*
14. Prabhuling, S.H., Makwana, P., Pradeep. A.N.R., Vijayan, K. and Mishra, R.K. (2021). Release of mediator enzyme β-hexosaminidase and modulated gene expression accompany hemocyte degranulation in response to parasitism in the silkworm, *Bombyx mori*. *Biochemical Genetics.* 59(4):997-1017.
15. Suresh, K., Harizon. Y., Pappachan, A., Laskar, M., Manjunath, G.R. 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.
16. 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 *Nosema bombycis* in silkworm, *Bombyx mori* L. *Invertebrate Survival Journal,* 18:66-74.

Research Papers (National):

1. Afroz, S., Singh, R., Nain, M. S. and Mishra, J. R. (2022). Determinants for Agripreneurship Development under Agriclinics and Agribusiness Centers (ACABC) Scheme, *Indian Journal of Agricultural Sciences* (IJAS), Vol. 92 (2): 258–262.
2. Afroz, S., Singh, R., Nain, M. S., Mishra, J. R., Kumar, P., Khan, S. A. and Iquebal, M. A. (2021). SWOT-Analytic Hier, archy Process (AHP) of Agriclinics and Agribusiness Center (ACABC) Scheme, *Indian Journal of Agricultural Sciences*, Vol. 91 (6): 900–904.
3. Chakrabarty, S., Manna, B. and Saha, A.K. (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 Experimental Zoology,* 24:7-13.
4. Jagadish, A., Dubey, H., Kamatchi, I., Pradeep, A. R., Subrahmanyam, G., Rakesh, K. Mishra, K., and Ponnuvel, M. (2021). Transcriptome analysis of *Nosema assamensis* infecting muga silkworms (*Antheraea assamensis*) reveals insights into candidate pathogenicity related genes and molecular pathways required for pathogenesis. *Annals of Parasitology* 67(4), 671–682.
5. Harijan, Y., Deepika, K.U., Padmini, B., Suresh, K., Laskar, M. and Sivaprasad, V. (2021). Physiological and biochemical profiling of different mulberry genotypes developed for Eastern and North Eastern India. *Journal of Crop and Weed*, 17(3): 176-184.
6. Chakrabarty, S., Manna, B. and Saha, A.K. (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 Experimental Zoology,* 24:7-13.
7. Kabiraj, D., Chetia, H., Nath, A., Sharma, P., Mosahari, P. V., Singh, D., Dutta, P., Neog, K. and Bora U. (2022). Mitogenome-wise codon usage pattern from comparative analysis of the first mitogenome of *Blepharipa* sp. (Muga uzifly) with other Oestroid flies. [Paper #SREP-18-46385B]. *Scientific Reports*.
8. Sakthivel. N. (2022). Sericulture and livelihood security of Mizos in North-East India. *Just Agriculture*, 2(6):1-7.

Popular Articles:

1. Chandrakanth, N. (2021) Sericulture: Scientists inspect trial rearing of hybrid silkworm published in *Tripura Times*, a local English newspaper on 2nd Dec., 2021.
2. Neog, K., Manjunath, G.R., Pandit, D. and Sivaprasad, V. (2021). Mulberry Sericulture in Nagaland, *Indian Silk*, May-June, 2021. 12(1): 14-17.
3. Neog, K. and Sivaprasad, V. (2021). Role of Women in Sericulture Industry of Nagaland. *Indian Silk*.
4. Parameswaranaik J and Shafi Afroz (2021). Teacher who became a role model in Sericulture. *Food and Scientific Reports*. 2(8): 44-45. ISSN:2582- 5437

Success story:

1. Thangjam Ranjita Devi and Parameswaranaik J (2022). A story of a sericultural woman with a will to succeed. *Agriculture & Environment*, 3: 32-33.
2. Kartik Neog (2022). Mulberry Sericulture – Bringing smiles to many: A success Story of Erika Jigdong. *Indian Silk*.
3. Sakthivel. N. (2022). Intercropping with mulberry in hilly tracts of Mizoram for additional income: Success story of a women sericulturist. *Just Agriculture*, (Press).

Book Chapter

1. Bhuyan, P.M., Nath, P. K., Kardong, D. and Gogoi, D. K. (2021). Muga Silkworm: An approach towards climate resilient sericulture for promoting sustainable development. In: *Pollution and Environment*, Edited by Dr. S. Das. pp. 28-36 (ISBN: 978-93-90847-02-0).
2. Chandrakanth N, Makwana P, Satish L, Rabha M, Sivaprasad V (2021) Molecular approaches for detection of pebrine disease in sericulture. In: Gurtler V and Subrahmanyam G (eds), Methods in Silkworm Microbiology, *Elsevier Academic Press*, Cambridge, USA. Vol. 49, pp. 47-78.
3. Rahul, K., Manjunatha G.R., and Sivaprasad, V. (2021). Pebrine monitoring methods in sericulture. In V. Gurtler & G. Subrahmanyam (Eds.), Vol. 49. Methods in Microbiology. pp. 79-96. New York: *Academic Press*.
4. Sivaprasad V, Rahul K, Makwana P (2021). Immunodiagnosis of silkworm diseases. In: Gurtler V and Subrahmanyam G (eds), Methods in Silkworm Microbiology, *Elsevier Academic Press*, USA. pp. 27-46
5. Sivaprasad, V., Rahul, K. and Makwana, P. (2021). Immunodiagnosis of silkworm diseases. In V. Gurtler & G. Subrahmanyam (Eds.), Vol. 49. Methods in Microbiology. pp. 27-46. New York: *Academic Press*.
6. Suresh, K. (2022). Career Opportunities in Sericulture. Book Career Opportunities in Entomological sciences. *International Books and periodicals supply services*. ISBN: 978-93-90425-99-0, pp. 55-74.

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

Proceedings of Autumn Conference of the Korean Society of Sericultural Science, held on 4th & 5th November, 2021 at Daejeon city, Korea.

1. Rahul K, Pappachan A, Makwana P, Devi WS, Sivaprasad V, Kweon HY (2021) Aspergillus flavus isolated from Myllocerus viridanus causing mycosis in Bombyx mori L. B3-10

2. International web Confernce on Advances in Science and Technology (ICAST) organised by CSIR, NAL, Bengaluru, the Institute of Innovations (A MSME of Govt. of India) during 2-3rd April, 2021.
3. Rahul, K., Behera, G. K. and Pappachan, A. (2021). Bacillus flexus isolated from Harmonia axyridis (Pallas) causing bacteriosis in Bombyx mori L.

International Web Conference on Innovative and Current Advances in Agriculture and Allied Sciences (ICAAAS-2021) organized by Society for Scientific Development in Agriculture and Technology, Meerut, Uttar Pradesh during 19th -21st July, 2021

1. Suresh K., Chattopadhyay, S., Deepika, K.U. and Sivaprasad, V. (2021). Genetic analysis and selection of superior clones with higher nitrate reductase activity in inter-specific population of mulberry, pp.371-372.

International Web Conference on global research initiatives for sustainable agriculture & allied sciences (GRISAAS-2021) at SKRAU-Bikaner, Rajasthan during 13-15th December, 2021

1. Suresh, K., Ghosh, M.K., Shiv Nath, Deepika K.U., Sivaprasad, V. and Kishor Kumar, CM (2021). Development of high yielding and low temperature stress tolerant mulberry genotypes suitable for sub-tropical sericulture, p.87.

National web Conference organized by Department of Entomology, Veer Kunwar Sigh College of Agriculture, under BAU, Sabour through ZOOM platform on 8th June, 2021.

1. Suresh K., S. Chattopadhyay, and V. Sivaprasad (2021). Delivered a lecture on Career opportunities Entomological Science through Sericulture.

ISEE National Seminar on Transforming Indian Agriculture through Pluralistic and Innovative Extension Approach for Self-Reliant India organized by Banaras Hindu University, Uttar Pradesh during 4-6th October, 2021.

1. Parameswaranaik, J., Shafi, A., Srinivasa, G. and Pandit, D. (2021). Scope of Sericultural Entrepreneurship in North-Eastern India.
2. Afroz, S., Parameshawar Naik, J., Manjunatha, G.R., Srinivasa, G., and Pandit, D. (2021). Prospects of Seri-preneurship through Chawki Rearing Center (CRC) in West Bengal.

Online Research Programme /Training Programme attended/ participated:

Five days online training programme on "**Leadership and Organisation Development for Women Scientists**" conducted by Centre for Organization Development, Hyderabad held from 25th – 29th October, 2021.

- Dr. Pooja Makwana, Scientist-C

One day training programme on **"Disciplinary Proceedings**" held on 27th Oct. 2021 organized by Central Silk Board, Bengaluru.

- Yallappa Harijan, Scientist-B

Two days online training programme on "**Introduction to Genomics & Bioinformatics**" organized by C-CAMP & Bengaluru Genomics Centre from 13th & 14th August, 2021.

Dr. Pooja Makwana, Scientist-C

Two days online training programme on "**Introduction to Genomics & Bioinformatics**" organized by C-CAMP & Bengaluru Genomics Centre from 22nd to 24th Sept, 2021.

- Yallappa Harijan, Scientist-B

Three (3) days long online training programme on "**Extension Management Approaches for promotion of Sericulture Industry"** organized by MANAGE, Hyderabad during 15th -18th June, 2021

- Dr. Narayan Biswas, Scientist-D, REC, Agartala

CSR&TI, Berhampore and MANAGE, Hyderabad organized training programme on **"Development of Entrepreneurial skills for promotion of sericulture industry"** during 27th -30th September, 2021.

- Dr. N. Sakthivel, Sci –D, REC, Aizwal

CSR&TI, Berhampore organized a Virtual Workshop cum Training programme on "**Application of Statistical tools on sericulture**" during 5th & 6th January, 2022.

Dr. V. Lakshamanan, Sci-D, CSRTI-BHP
Dr. G.Srinivasa, Sci-D, CSRTI- BHP
Dr. A.R.Pradeep, Sci-D, CSRTI- BHP
Dr. Dipesh Pandit, Sci-D, CSRTI- BHP
Dr. Satadal Chakraborty, Sci-D, CSRTI
Dr. Sukhabrata Sarker, Sci-D, CSRTI- BHP
Dr. Suresh K, Sci-C, CSRTI- BHP
Dr. Safi Afroz, Sci-C, CSRTI- BHP
Dr. N. Chandrakanth, Sci-C, CSRTI- BHP
Dr. Pooja Makwana, Sci-C, CSRTI- BHP
Dr. Yallappa Harijan, Sci-C, CSRTI- BHP
Dr. P. Naik J, Sci-C, CSRTI-BHP
Mr. Khasru Alam, Sci-C, CSRTI-BHP
Dr. Ranjita Devi, Sci-C, CSRTI-BHP
Dr. V. Raviraj, Sci-C, CSRTI- BHP
Dr. Deepika Kr.Umesh, Sci-C, CSRTI- BHP
Dr. Mihir Rabha Sci-C, CSRTI-BHB
Dr. Narayan Biswas, Sci-D, REC-Agartala, Tripura
Dr. Ghanashyam Sing, Sci-D, REC-Bhandara
Dr. N. Balachandran, Sci-D, RECShillong, Meghalaya
Mr. Lohit Sonowal, Sci-C, REC-Sille, Ar. Pradesh
Dr. Harish Babu, Sci-C, RSRS-Kalimpong, WB
Dr. Zakir Hossain, Sci-D, RSRS-Kalimpong, WB
Dr. N Sakthibhel, Sci-D, REC-Aizwal
Mr. B Vijay Naidu, Sci-D, REC-Mothabari, WB
Mr. R Dilip Kumar Gogoi, Sci-D, RSRS-Koraput,
Dr. B Basumatary Sci-D, REC-Mangaldoi
Dr. Kartik Neog, Sci-D, REC-Dimapur, Nagaland
Dr. P Kumaresan, Sci-D, RSRS, RSRS-Jorhat,
Dr. Sukhabrata Sarkar, Sci-D, CSRTI-BHB
Mr. Prenesh Kumar Prasad Dy. Director , CSRTI- BHP