

2022-2023

RESEARCH PUBLICATIONS

A. RESEARCH PAPERS

1. S. Singh, D.K. Jigyasu, G. Subrahmanyam, P. Sangannawar, **Rajesh Kumar**, B.N. Chowdhury, R. Luikham and K.M. Vijyakumari, **2022**. Conservation of muga silkworm, *A. assamensis* Helfer in the natural habitats at different geographical locations. *Plant Archives*. Vol. 22(VSOG):230-239
2. S. Singh, D. Roy, **Rajesh Kumar**, D.K. Jigyasu and K.M. Vijyakumar, **2022**. Seasonal occurrence, biology and feeding behaviour of *Eocantheconafurcellata* Woldf. predating muga silkworm, *A. assamensis* Helfer in Brahmaputra valley of Assam. *Plant Archives*. Vol. 22(VSOG):162-167
3. B. Sailaja, **Rajesh Kumar**, P.S. Rao, D.K. Gogoi, S. Vidumala, K.M. Vijayakumari, R.K. Mishra and C. Hegde, **2022**. Standardized embryo isolation methodologies steps for developing efficient egg techniques in muga seed sector. *Sericologia*, 62(2): 113-117.
4. Gulab Khan Rohela, **Pawan Saini**, Pawan Shukla, Ashok Kumar Kasukurthi, and SardarSingh 2022. In vitro clonal propagation of Chinese white (*Morus alba* L.); a temperate mulberry variety through nodal segments. The Mysore Journal of Agricultural Sciences 56(2): 144-151 (NAAS: 5.64)
5. Bharath, K, N., Shivkumar, Kiran, R., Kumaresan, P and Singh, Sardar. Evaluation of elite bivoltine mulberry silkworm (*Bombyx mori* L.) double hybrids suitable for North West India. *Internat. J. Plant Sci.*, 2023; 18 (2): 1-7. (NAAS 4.15)
6. Bharath, K, N., Shivkumar, Rajesh Kumar, Mir Nisar Ahmad, Kiran, R & Sardar Singh. Identification of mulberry silkworm (*Bombyx mori* L.) hybrids ideal for temperate climatic conditions of North West India. Proceedings of National seminar on Entrepreneurship in sericulture organized by Dept. of Sericulture, SK university, Anantapuram, Andhra Pradesh 2022; 52-55.
7. Bharath, K, N., Shivkumar, Kiran, R., Kumaresan, P and Singh, Sardar. Identification of superior autumn specific silkworm (*Bombyx mori* L.) hybrids suitable for temperate region of Jammu and Kashmir. *Internat. J. agric. Sci.*, 2023; 19 (1): 1-7. (NAAS 4.73)
8. Bharath, K, N., Shivkumar, Kiran, R., Kumaresan, P and Singh, Sardar. Identification of superior bivoltine mulberry silkworm (*Bombyx mori* L.) double hybrids suitable for North West India. *Internat. J. agric. Sci.*, 2023; 19 (1): 140-146. (NAAS 4.73)
9. Kiran R, Muttanna, Satish Y, Bharath Kumar N, Kumaresan P, Sardar Singh (2022) Entrepreneurship opportunities for preparation of artefacts/crafts using mulberry silkworm cut cocoons, Innovations and Entrepreneurship for Sustainable Development (IESD -2022), GhandhiBavan, University of Kashmir, Jammu and Kashmir.
10. K.K. Rai, M. Shafi Mir, P.M. Tripathi, M. Aslam and Pankaj Tewary. Mulberry varieties for chawki rearing of *Bombyx mori* L. (Lepidoptera: Bombycidae) in subtropical conditions in India. Short communication No. Ent. 47208. *ENTOMON* 47(1): 153-156 (2022) (June, 2022) (NAAS :4.69)

11. Ram, R.L. (Chief Editor) Current Research in Soil Fertility (Vol.-VI), Paperback ISBN 978-93-5570-211-1; <https://doi.org/10.22271/ed.book.1726>; <https://www.akinik.com/products/1726/current-research-in-soil-fertility>; Publisher and Seller: AkiNik Publications, New Delhi. Publication. Publication Year: 2022.
12. Ram, R.L. (Chief Editor) Current Research in Soil Fertility (Vol.-VII), Paperback ISBN 978-93-5570-245-6; <https://doi.org/10.22271/ed.book.1893>; <https://www.akinik.com/products/1893/current-research-in-soil-fertility>. Publisher and Seller: AkiNik Publications, New Delhi. Publication. Publication Year: 2022.
13. Ram, R.L. (Chief Editor) Current Research in Soil Fertility (Vol.-VIII), Paperback ISBN 978-93-5570-184-8; <https://doi.org/10.22271/ed.book.1963>; <https://www.akinik.com/products/1963/current-research-in-soil-fertility>; Publisher and Seller: AkiNik Publications, New Delhi. Publication. Publication Year: 2022.
14. Santoshkumar Magadam and Sardar Singh. 2022. Evaluation of mulberry germplasm for growth and yield contributing characters under sub-tropical conditions of Northern India. *The Pharma Innovation Journal*. 11(12): 5142-5144. [NAAS rating: 5.23]
15. Santoshkumar Magadam and Sardar Singh. 2022. Correlation and path coefficient analysis of growth and yield contributing characters in mulberry (*Morus* spp.) under North West India. *The Pharma Innovation Journal*. 11(12): 5145-5148. [NAAS rating: 5.23]

B. Abstracts:

- Pawan Saini, Gulab Khan Rohela, Gulzar Ahmad Khan, Chattar Pal, Rajesh Kumar, Santosh Kumar Magadam, Ram Prakash Singh, Kamlesh Kumar Rai, Sardar Singh, S. Nazeer Ahmed Saheb and V.Sivaprasad, 2022. Evaluation of mulberry genotypes for yield-related quantitative traits under varied climatic regions of North-West India. 26th The International Sericulture Commission Congress “SERITECH-2022 – New concept in Sericulture” held at Cluj-Napoca, Romania w.e.f. 7-11 Sept., 2022, Abstract No S1 (Mulberry). Page No. 39.
- Rajesh Kumar and Sardar Singh, 2022. Impact of climate change in expansion of pest and diseases incidence in mulberry Sericulture Jammu & Kashmir (UT), India (Oral Presentation). Abstract No. 1. Climate Smart Sericulture – 2022 “Approaches for sustainable Sericulture held at NIFT, HSR Layout, Bengaluru from 6th Oct. to 7th Oct. 2022.
- Rohela, G. K., Saini, P., Shabnam A. A., Kasukurthi, A. K., Kamili, A. N. and Singh, S. 2022. Isolation, purification and viability studies of mesophyll protoplasts in temperate mulberry: *Morus multicaulis* var. Goshoerami. In: Proc. National Seminar on “Entrepreneurship in Sericulture” at Department of Sericulture, Sri Krishnadevaraya University, Anantapuramu, Andhra Pradesh 28th-29th April, 2022. 126p.
- Gulzar Ahmad Khan, Satish Y., Gulab Khan Rohela, Sardar Singh, 2022. Rescheduling of Brushing Date for Autumn Rearing in Kashmir Valley, 27 National Seminar on “Climate Smart Sericulture Sericulture-2022: Approaches for Sustainable Sericulture” C.O, Central Silk Board Bangalore, Karnataka, India - 560 068, from 06th-07th October, 2022
- Saini, P., Rohela, G. K., Khan, G. A., Chattar Pal, Kumar, R., Magadam, S. K., Singh, R. P., Rai, K. K., Singh, S., S. Nazeer Ahmad Saheb and Siva Prasad, V. 2022. Evaluation of mulberry genotypes for yield-related quantitative traits under varied climatic regions of North-West India. In: Book of Abstracts of 26th International Sericultural Commission Congress on SERITECH – The New Concepts in Sericulture on 07th-11th September 2022 at Cluj-Napoca, Romania. 59p.

- Rohela, G. K., Saini, P., Shabnam, A. A., Kasukurthi, A. K., Kamili, A. N. and Singh, S. 2022. Improvement of mulberry through biotechnological approaches. In: Book of Abstracts of National Seminar on Climate Smart Sericulture – 2022: Approaches for Sustainable Sericulture at IIFT, Bengaluru on 06th-07th October 2022. 56p.
- Saini, P., Rohela, G. K., Kasukurthi, A. K. and Singh, S. 2022. In vitro conservation of mulberry germplasm accessions under temperate conditions. In: Book of Abstracts of National Seminar on Climate Smart Sericulture – 2022: Approaches for Sustainable Sericulture at IIFT, Bengaluru on 06th-07th October 2022. 57p.
- Rohela, G. K., **Saini, P.**, Shabnam, A. A., Kasukurthi, A. K., Kamili, A. N. and Singh, S. 2022. Somatic hybridization: An alternate approach to conventional breeding. In: Abstract Book for National Conference cum Workshop on Innovations and Entrepreneurship for Sustainable Development (IESD-2022) at Central University of Kashmir in collaboration with SKUAST-K on 20th-21st December 2022. 57p.
- Saini, P., Rohela, G. K., Chattar Pal, Magadum, S. K., Kumar, R., Khan, G. A., S. Nazeer Ahmad Saheb and Singh, S. 2022. Screening of mulberry varieties for disease and pest under varied agro-climatic conditions of North-West India. In: Abstract Book for National Conference cum Workshop on Innovations and Entrepreneurship for Sustainable Development (IESD-2022) at Central University of Kashmir in collaboration with SKUAST-K on 20th-21st December 2022. pp. 60-61
- Saini, P., Rohela, G.K., Khan, G.A., Pal, C., Kumar, R., **Santoshkumar Magadum**, Singh, R.P., Rai, K.K., Singh, S., Saheb, S.N.A. and Prasad, V.S. 2022. Evaluation of mulberry genotypes for yield-related quantitative traits under varied climatic regions of North-West India. In: Seritech: The New Concepts in Sericulture - The 26th International Sericulture Commission Congress held during 17-19th September, 2022 at Romania. Page: 59.
- **Santoshkumar Magadum** and Sardar Singh. 2022. Genetic variability, correlation and path coefficient analysis of climatic and yield contributing characters in mulberry (*Morus* spp.) under sub-tropical condition in North-West India. In: National Seminar on Climate Smart Sericulture-2022: Approaches for sustainable Sericulture held during 6-7th October, 2022 at Bengaluru. Page: 80.
- Pal, C., Thanavendan, G., Murali, S., **Santoshkumar Magadum** and Singh, S. 2022. An approach to develop mulberry varieties under rainfed and moisture stress conditions in North-West India. In: National Seminar on Climate Smart Sericulture-2022: Approaches for sustainable Sericulture held during 6-7th October, 2022 at Bengaluru. Page: 81.
- Saini, P., Rohela, G.K., Pal, C., Santoshkumar Magadum, Kumar, R., Khan, G.A., Saheb, S.N.A. and Singh, S. 2022. Screening of mulberry varieties for disease and pest under varied agro-climatic conditions of North-West India. In: National conference cum workshop on Innovations and entrepreneurship for sustainable development held during 20-21st December, 2022 at Central University of Kashmir, Srinagar. Page: 60-61.

C. Review Paper: 03

- Gurjeet Singh, Santosh Gudi, Amandeep, Priyanka Upadhyay, Pooja Kanwar Shekhawat, Gyanisha Nayak, Lakshay Goyal, Deepak Kumar, Pradeep Kumar, Akashdeep Kamboj, Antra Thada, Shweta Shekhar, Ganesh Kumar Koli, Meghana DP, Priyanka Halladakeri, Rajvir Kaur, Sumit Kumar, **Pawan Saini**, Inderjit Singh and Habiburahman Ayoubi. 2022. Unlocking the hidden variation from

wild repository for accelerating genetic gain in legumes. *Frontiers in Plant Science*, 13:1035878. DOI:[https://10.3389/fpls.2022.1035878](https://doi.org/10.3389/fpls.2022.1035878) (NAAS: 11.75; IF: 6.627)

- Pooja Saini, Harneet Kaur, Vikrant Tyagi, Ajar Nath Yadav, Pawan Saini, Varruchi Sharma, Charan Singh, H. S. Dhaliwal, and Imran Sheikh. 2022. Genetic enhancement of nutritional and end-use quality in bread wheat through alien introgressions from wild relatives. *Cereal Research Communication*, DOI: <https://doi.org/10.1007/s42976-022-00309-7> (NAAS: 6.85; IF: 1.257).
- Pooja Saini, Harneet Kaur, Vikrant Tyagi, Pawan Saini, Naseer Ahmed, H. S. Dhaliwal and Imran Sheikh. 2022. Nutritional value and end-use quality of durum wheat. *Cereal Research Communication*, DOI: <https://doi.org/10.1007/s42976-022-00305-x> (NAAS: 6.85; IF: 1.257).