



Dr Partha Saha
M.Sc., Ph.D.

Sr. Scientist & Head i/c

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Employment Record

- Scientist, ICAR – IARI, New Delhi: 06.10.2010 – 05.10.2019
- Sr. Scientist, ICAR – IARI, New Delhi: 06.10.2019 – 18.04.2022
- Sr. Scientist, ICAR – CTRI-RS, Dinhata: 19.04.2022 – till date

Area of Interest

- Development of chilli varieties with high yield, bioactive compounds and resistance to biotic stress
- Molecular breeding

Publications

1. Saha, P., Ghoshal, C., Saha, N.D., Verma, A., Srivastava, M., Kalia, P. and Tomar, B.S. (2021). Marker assisted pyramiding of downy mildew resistant gene Ppa3 and black rot resistant gene Xca1bo in popular early cauliflower variety Pusa Meghna. *Frontier in Plant Science*. <https://doi.org/10.3389/fpls.2021.603600>
2. Nandi, LL., Saha, P., Sarika Jaiswal., Lyngdoh, Y.A., Behera, T.K., Pan, R.S., Munshi, A.D., Saha, N.D., Hossain, F., Srivastava, M. and Tomar, BS. (2020) Bioactive compounds, antioxidant activity and elements content variation in indigenous and exotic Solanum sp. and their suitability in recommended daily diet. *Scientia Horticulturae* 287 (2021) 110232. <https://doi.org/10.1016/j.scienta.2021.110232>
3. Saha, P., Ghoshal, C., Ray, S., Saha, N.D., Srivastava, M., Kalia, P. and Tomar, B.S. (2020). Genetic analysis of downy mildew resistance and identification of molecular markers linked to resistance gene Ppa207 on chromosome 2 in cauliflower. *Euphytica* (2020) 216:183. <https://doi.org/10.1007/s10681-020-02696-6>
4. Nandi, L.L., Saha, P., Behera, T.K., Lyngdoh, Y.A., Munshi, A.D., Saha, N.D., Hossain, F., Bhowmik, A., Pan, R.S., Verma, A. and Tomar, B.S. (2020). Genetic characterisation and population structure analysis of indigenous and exotic eggplant (*Solanum spp*) accessions using microsatellite markers, *The Journal of Horticultural Science and Biotechnology*, <https://doi.org/10.1080/14620316.2020.1763211>
5. Vanlalneihi, B., Saha, P., Kalia, P., Singh, S. Saha, N. D. Kundu, A., Singh, N. and Bhowmik, A. (2020). Genetic and principal component analysis for agro-morphological traits, bioactive compounds, antioxidant activity variation in breeding lines of early Indian cauliflower and their suitability for Breeding. *The Journal of Horticultural Science and Biotechnology* 95 (1): 93-105. <https://doi.org/10.1080/14620316.2019.1627912>

6. Vanlalneihi, B., Saha, P., Kalia, P., Jaiswal, S., Kundu, A., Saha, N.D., Singh, S., Singh, N. (2020). Chemometric approach based characterization and selection of mid-early cauliflower for bioactive compounds and antioxidant Activity. *Journal of Food Science and Technology*. 57(1):293-300. <https://doi.org/10.1007/s13197-019-04060-6>
7. Kalia, P., Saha, P. and Ray, S. (2017). Development of RAPD and ISSR derived SCAR markers linked to Xca1Bo gene conferring resistance to black rot disease in cauliflower (*Brassica oleracea* var. *botrytis* L.). *Euphytica*, 213:232.
8. Saha, P. Kalia, P. Sharma, M. and Singh, D. (2016). New source of black rot disease Resistance in *Brassica oleracea* and genetic analysis of resistance. *Euphytica*, 207:35-48
9. Devi, CP., Munshi, A.D., Behera, T.K. Choudhary, H. Vinod, Gurung, B. and Saha, P. (2015). Cross compatibility study in interspecific hybridization of eggplant, *Solanum melongena*, with and its wild relatives. *Scientia Horticulturae* 193: 353-358
10. Saha, P., Kalia, P., Sonha, H. and Sharma, T.R. (2014). Molecular mapping of black rot resistance locus Xca1bo on chromosome 3 of Indian cauliflower (*Brassica oleracea* var. *botrytis* L.). *Plant Breeding*. 133 (2): 268-27.
11. Devi, C.P., Munshi, A.D., Behera, T.K., Choudhary, H. and Saha, P. (2016). Characterisation of cultivated breeding lines of eggplant (*Solanum melongena* L.) and related wild *Solanum* species from India. *The Journal of Horticultural Science and Biotechnology*. 91 (1): 88-94

Awards/Honors

- Recipient of Jawaharlal Nehru Award for outstanding doctoral thesis from ICAR
- Recipient of IARI merit Gold medal and certificate during Ph.D. at IARI
- Recipient of Dwarika Nath Memorial Gold Medal with certificate from Indian Society of Vegetable Science, Varanasi, UP, India
- Recipient of Young Horticultural Scientist Award from Society for Horticultural Research and Development, UP, India
- Scientist of the Year Award 2021 by Agro Environmental Development Society (AEDS), UP, India
- Recipient of Young Scientist award grant from SERB-DST, GOI with a winning project on Marker assisted pyramiding of genes for resistance to diseases in Indian cauliflower
- Recipient of DBT funded project on Morphological, molecular and association mapping-based approach to identify the resistance/tolerance to anthracnose disease of chilli in the North East India
- Awarded best poster paper from Indian Phytopathological Society, New Delhi in National e-Conference Plant Health and Food Security: Challenges and Opportunities March 25-27, 2021, ICAR-IARI, New Delhi, India
- Awarded best poster paper in 4th Indian Horticultural Congress, November 18-21, 2010, New Delhi

- Awarded best poster paper in 8th Indian Horticultural Congress, January, 17-21, 2019, Chhattisgarh
- Awarded best poster paper in 7th Indian Horticultural Congress, November 15-18, 2016, New Delhi
- Best oral presentation award by in 5th International Conference on Advances in Agriculture, Environment and Bioscience for sustainable development, August 5-7, 2021, online.
- Best poster award in ICVEG, Varanasi, 14-16 Dec, 2021