

BRIEF RESUME OF DR. PARTHA SARATHI PATRA

Name: Dr. Partha Sarathi Patra

Present Designation: Assistant Professor, Agronomy (Grade-II)

Educational Qualification: Ph. D.

Teaching Experience (in years): 12 years and 3 months

Awards/ Recognitions (Best five):

- i) Recipient of University Gold medal at Master Degree Program
- ii) Received “**Young Scientist Award, 2018**” from the society of Krishi Vigyan at ICAR-CIFA, Bhubaneswar, Odisha.
- iii) Received “**Best Doctoral thesis award, 2018**” from the Cooch Behar Association for Cultivation of Agricultural Sciences at Majhian, Dakshin Dinajpur.
- iv) Recipient of “**Golden Achievers Award-2022**” conferred by Council for Academic and Performance Appraisal, New Delhi on 11th September, 2022 at Lajpat Bhawan Auditorium
- v) **RASST** (Western Ghat Researcher Association of Agricultural Science and Technology) **Associate Fellowship Award**, 2025

Publication (Best five in Ref. style):

- i) Kanjilal, B., **Patra, P. S.**, Debnath, M. K., Paul, T., Rajesh Saha, Ahmed, A. S. and Hoque, A. (2023). Impact of biologically synthesized phosphorus nano-particle on green gram (*Vigna radiata* L.) over molecular phosphatic fertilizer under acid soils of Eastern Sub-Himalayan region of India. Journal of Plant Nutrition, <https://doi.org/10.1080/01904167.2023.2220729>.
- ii) **Patra, P. S.**, Saha, R., Ahmed, A. S., Kanjilal, B., Debnath, M. K., Paramanik, B., Hoque, A., Kundu, A., Adhikary, P., Biswas, A., Dey, P. and Asim Biswas. (2024). Enhancing aromatic rice production through agronomic and nutritional management for improved yield and quality. *Scientific Reports*. <https://doi.org/10.1038/s41598-024-65476-5>.
- iii) Das, B., Paramanik, B., Murmu, D. K., De, D., **Patra, P. S.**, Dey, P. and Dey, P. (2025). Generational effects of biosynthesized titanium dioxide nanoparticles on bitter melon growth and phytochemistry. *Plant stress*, <https://doi.org/10.1016/j.stress.2025.100985>.
- iv) Meena, H., **Patra, P. S.**, Adhikary, P., Ahmed, A. S., Khoroar, S., Deb, S., Rahman, F. H., Tamang, A., Das, B. and Somondal, P. (2025). Optimizing resources for sustainable maize production under different intercrop association in eastern sub Himalayan region of India. *Frontiers in Sustainable Food Systems*, 9:1-17 10.3389/fsufs.2025.1584085.
- v) Ahmed A. S., Hoque, A., Kanjilal, B., Debnath, M. K., Paramanik, B., Choudhury, A., Das, B., **Patra, P. S.** and Paramanik, B (2026). Optimizing planting density and nitrogen management for enhancing grain quality and free-amino acid compositions in quality protein maize (*Zea mays* L.). *Journal of Agriculture and Food Research*, <https://doi.org/10.1016/j.jafr.2026.103078>.

Seminar/Symposium/Workshop Organized:



- i) Organized two days National seminar on “Cultivation, Conservation and Sustainable utilization of Medicinal Plants for Livelihood Improvement” was held during 20-21st November, 2019 as **Co-organizing Secretary**.
- ii) Organized two days National Seminar on “Climate Resilient and Input efficient Agriculture for Food and Nutritional Security” was held during 19-20th January, 2023 as **Organizing Secretary**.

Academic Supervising Experience (Completed/continuing):

- Major supervisor in M.Sc- Completed : Seven (7) and Continuing: 2
- Major supervisor in Ph.D.- Completed: Four (4) and Continuing: 1

Projects exposure as PI/Co-PI (completed/On-going) (5 major Projects):

Completed

- a) Production of quality planting materials of some important medicinal plants through Identification, multiplication, supply of health elite genotypes and capacity building program for improving rural livelihood in Northern part of West Bengal” funded by National Medicinal Plant Board, Govt. of India Ministry of AYUSH, as Co-PI (Budget: Rs. 40.34 Lakhs)
- b) Survey of pests and Diseases of Medicinal Plants in West Bengal” funded by National Medicinal Plant Board, Govt. of India Ministry of AYUSH, as Co-PI (Budget: Rs. 34.01 Lakhs).
- c) Up-gradation of market linkage network for promotion of Bengal Aromatic Rice” under RKVY Phase-II, funded by Department of Agriculture Marketing, Govt. of West Bengal as Co-PI (Budget: 107.10 Lakhs).
- d) “Bio-efficacy evaluation of some chemicals for better weed management and yield” sponsored by Syngenta India Limited as PI (Budget: 32.62 Lakhs).
- e) “Evaluation of new seed combination herbicide against weed complex in Transplanted Rice and Maize” sponsored by ADAMA India Private Limited as PI (Budget: 13.02 Lakhs).

Ongoing

- a) Up-gradation of market linkage network for promotion of Aromatic and Special Rice of West Bengal” under RKVY Phase-III, funded by Department of Agriculture Marketing, Govt. of West Bengal as Co-PI (Budget: 143.40 Lakhs).
- b) Bio-efficacy and phyto-toxicity evaluation of GOD-H021 against weed flora and Non-crop area” sponsored by Godrej Agrovvet Limited as PI (Budget: 11.20 Lakhs).
- c) “To evaluate the bio-efficacy of SCILH 8 SE and SCILH 10 SE against weed flora in tea” sponsored by Sumitomo Chemical India Ltd as PI (Budget: 10.08 Lakhs).
- d) “Bio-efficacy and phyto-toxicity evaluation of Herbicide Glufosinate 50% WG (Harmetry) against weed complex of tea” sponsored by UPL Sustainable Agri Solution Limited as PI (Budget: 8.12 Lakhs).
- e) “To study the effect of ECOMAX + (VAM) on soil organic carbon in Rice to Rice Crop sequence” sponsored by JU Agri Sciences Private Limited as PI (Budget: 7.0 Lakhs).

Research and Extension Experience:

- i) Having over 18 years of research experience on the Capacity of Senior Research Fellow, Research Associate, Agronomist (Tea Board of India), Scientist B (Tocklai Tea Research Institute) and Assistant Professor, Agronomy (Uttar Banga Krishi Viswavidyalaya).
- ii) Published so far 94 numbers of research papers, 2 review paper, 2 books and contributed to 14 book chapters & 15 popular articles.
- iii) So far handled more than 50 number of corporate projects as Principal Investigator.
- iv) Participated in more than 70 numbers of capacity building programs and 5 numbers of All India Radio talks as resource person.
- v) Life member of Indian Science Congress Association, Indian Society of Agronomy, Indian Society of Weed Science, Indian Society of pulses research and development, Indian Society of Agrophysics, The Crop and Weed Science Society, COBACAS, RASST and SAARESU.
- vi) Presented research paper in 41 numbers of Seminars, Symposiums, Conferences at National and International Level.

Institutional Building Activities:

- a) Acted as Dean Student's Welfare, Assistant Director of Farms, Agriculture, Assistant Director of Farms, Horticulture, Resident Superintendent cum NSS Coordinator and Hostel Provost.
- b) Acted as member IQAC, Anti Ragging Committee, Disciplinary Committee, Admission Committee, Work Advisory Committee, Krishi Mela, Uttaran, etc.
- c) Acted as Elected Member, Executive Council of the University from 2015 to 2019.
- d) Acted as Convener, Invitation Committee of the 6th Convocation of the University.

Areas of Interest: Organic Farming, Weed Management, Maize Agronomy & Rice Agronomy



(Partha Sarathi Patra)