

Brief Resume of Dr. Subham Mukherjee

Dr. Subham Mukherjee, M.Sc. (Ag.), Ph.D.,

Scientist (Soil Sciences)

ICAR-Mahatma Gandhi Integrated Farming Research Institute (MGIFRI), Piprakothi- 845429, Motihari, East Champaran, Bihar

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Born: West Bengal, India; Category: General



Research Specialization

Conservation agriculture, Carbon sequestration, Biochar, Soil survey, Remote sensing and GIS

Academic Background

2011-2015 B.Sc. (Ag.) Hons. 1st Class, Palli Sikha Bhavana, Visva Bharati

2015-2017 M.Sc. (Ag.) in Soil Science, 1st Class, Punjab Agricultural University

2017-2022 Ph.D. (Ag.) Agricultural Chemistry and Soil Science, 1st Class, Bidhan Chandra Krishi Viswavidyalaya

Professional Service Experience

2021 (Dec)-2025 (July) AFO SLUSI, Kolkata

2025 (Jul)- till date Scientist ICAR- MGIFRI

Awards, Honors & Recognitions

2015 ICAR- Junior Research Fellowship Award- Physical Science, AIR-28

2017 ICAR- Senior Research Fellowship Award- Soil Science, AIR-1

2017 Punjab Agricultural university merit certificate

2023 ASRB- Agricultural Research Service Examination- AIR-2

Publications

Total 11: Including research papers, book chapters, books- International and National
Google Scholar Citations: Total citations 102, H-index 4, i10 index 4

Best Publications

1. **Mukherjee, S.,** Mavi. M.S., Singh, J. and Singh, B.P. (2019) Rice residue biochar influences phosphorus availability in soil with contrasting P status. *Archives of Agronomy and Soil Science* 66 (6): 778-791 [**NAAS rating: 8.30**].
2. **Mukherjee, S.,** Mavi. M.S. and Singh, J. (2020) Differential response of biochar derived from rice-residue waste on phosphorus availability in soils with dissimilar pH, *International Journal of Environmental Science and Technology* 17 (5): 3065-3074 [**NAAS rating: 9.00**].
3. **Mukherjee, S.,** Nandi, R., Kundu, A., Bandyopadhyay, P. K., Nalia, A., Ghatak, P. and Nath, R. (2022). Soil water stress and physiological responses of chickpea

- (*Cicer arietinum* L.) subject to tillage and irrigation management in lower Gangetic plain. *Agricultural Water Management* 263: 107443 [NAAS: 11.90].
4. Nandi, R., **Mukherjee, S.**, Bandyopadhyay, P.K., Saha, M., Singh, K.C., Ghatak, P., Kundu, A., Saha, S., Nath, R. and Chakraborti, P. (2023) Assessment and mitigation of soil water stress of rainfed lentil through sowing time, tillage and potassium fertilization disparities. *Agricultural Water Management* 277: 108120 [NAAS: 11.90]
 5. Biswas, T., Bandyopadhyay, P.K., Nandi, R., **Mukherjee, S.**, Kundu, A., Reddy, P., Mandal, B. and Ghosh, P.K. (2022). Impact of mulching and nutrients on soil water balance and actual evapotranspiration of irrigated winter cabbage (*Brassica Oleracea var Capitata* L.). *Agricultural Water Management* 263: 107456 [NAAS: 11.90].
 6. Kundu, A., Dey Sarkar, J., **Mukherjee, S.**, Nandi, R., Saha, S., Bandyopadhyay, PK. and Sharma, S. (2025). Impact of different cropping systems on structural attributes and aggregate-associated carbon dynamics of clayey soil under conservation agriculture. *Frontiers in sustainable food systems* 9: 1622985 [NAAS: 9.7]
 7. Nandi, R., **Mukherjee, S.**, Singh, K.C., Saha, M., Ghatak, P., Kundu, A., Saha, S., Bandyopadhyay, PK. and Nath, R. (2025) Influence of potassium management on physiology and biochemical activities of lentil grown under rainfed condition in different tillage and sowing time scenario. *Journal of Soil Science and Plant Nutrition*, <https://doi.org/10.1007/s42729-025-02759-4>. [NAAS: 9.40]
 8. Ghosh, A., Nalia, A., Reja, Md. H., **Mukherjee, S.**, & Nath, R. (2023). Zinc and iron foliar feeding on different lathyrus varieties influencing the biofortification, bio-availability and productivity. *Journal of Plant Nutrition*, 46(14), 3325–3338. [NAAS: 7.6]
