


Profile of Dr. Sudeshna Bhattacharjya

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|--|---|-----------------|---|---|
| Name | Dr. Sudeshna Bhattacharjya | | |  |
| Designation | Scientist | | | |
| Date of Birth | 03/07/1985 | | | |
| Education | Ph.D (Soil Science) | | | |
| Major Research Areas | Soil Chemistry/Fertility/Microbiology Soil carbon cycling, Soil microbial community and Waste recycling | | | |
| Email | sudeshna.bb@outlook.com Sudeshna.Bhattacharjya@icar.gov.in | | | |
| Professional Experience | | | | |
| Position held | Organization | Division | Year appointed | |
| Scientist | ICAR-Indian Institute of Soil Science, Bhopal | Soil Biology | 2015 | |
| Academic Qualification | | | | |
| Degree | Year | Subject | University / Institution | % of marks |
| Bachelor of Science in (Agriculture) Hons | 2008 | Agriculture | Bidhan Chandra Krishi Viswavidyalaya, West Bengal | 8.62 |
| Master of Science in Agriculture (Soil Science) | 2010 | Soil Science | G.B. Pant University of Agriculture & Technology, Uttarakhand | 8.794 |
| 3. Doctorate of Philosophy | 2014 | Soil Science | G.B. Pant University of Agriculture & Technology, Uttarakhand | 8.478 |
| Awards | | | | |
| University Merit Scholarship by BCKV, Mohanpur, West Bengal | | | 2004-2008 | |
| ICAR Merit Scholarship (JRF) | | | 2008-2010 | |
| DST-INSPIRE Fellowship, Govt. of India | | | 2010-2014 | |
| ARS-NET | | | 2010 & 2011 | |
| Early Career Research Award by DST-SERB, Govt. of India | | | 2017 | |
| 3 rd Best Oral Presentation Award | | | 2018 | |
| Publication | | | | |
| Journal: | | | | |
| <p>◆ Sudeshna Bhattacharjya, Debarati Bhaduri, Swati Chauhan, Ramesh Chandra, KP Raverkar, Navneet Pareek (2017). Comparative evaluation of three contrasting land use systems for soil carbon, microbial and biochemical indicators in North-Western Himalaya. Ecological Engineering. 103: 21-30. DOI: 10.1016/j.ecoleng.2017.03.001.</p> | | | | |

- ◆ S. K. Joshi, R. K. Bajpai, Prahalad Kumar, Alok Tiwari, Vinay Bachkaiya, M. C. Manna, Asha Sahu, **S. Bhattacharjya**, Mohammad Mahmudur Rahman, R. H. Wanjari, Muneshwar Singh, Vassanda Coumar, Ashok K. Patra, and S. K. Chaudhari (2017). Soil Organic Carbon Dynamics in a Chhattisgarh Vertisol after Use of a Rice–Wheat System for 16 Years. *Agronomy Journal*. doi:10.2134/agronj2017.04.0230
- ◆ **Sudeshna Bhattacharjya**, Ramesh Chandra, Mahaveer P. Sharma, Sushil K. Sharma, and Richa Agnihotri. (2015). Biochar and Crop Residue Amendments on Soil Microbial and Biochemical Properties. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* DOI 10.1007/s40011-015-0669-8.
- ◆ **Sudeshna Bhattacharjya**, Ramesh Chandra, Navneet Pareek and Kiran. P. Raverkar. (2015). Biochar and crop residue application to soil: effect on soil biochemical properties, nutrient availability and yield of rice (*Oryza sativa* L.) and wheat (*Triticum aestivum* L.). *Archives of Agronomy and Soil Science*, DOI: 10.1080/03650340.2015.1118760.
- ◆ Asha Sahu, **Sudeshna Bhattacharjya**, M.C. Manna and A. K. Patra. (2015). Crop residue management: A potential source for plant nutrients. *JNKVV Research Journal*, 49 (3) : 301-311.
- ◆ **Bhattacharjya Sudeshna**, Sahu Asha, Manna MC, Patra AK (2016). Long-term application of fertilizers and manures on soil biological activities under intensive cropping systems. *Fertilizers and Environment News*. 2(2)7-8.
- ◆ **Bhattacharjya, S** and Chandra R (2013). Effect of inoculation methods of *Mesorhizobium ciceri* and PGPR in chickpea (*Cicer arietinum* L.) on symbiotic traits, yields, nutrient uptake and soil properties. *Legume Research*, 36 (4): 331-337 .

Book Chapter:

- ◆ Asit Mandal, J.K. Thakur, Asha Sahu, **Sudeshna Bhattacharjya**, M.C. Manna and A. K. Patra (2016). Plant–Microbe Interaction for the Removal of Heavy Metal from Contaminated Site. In: *Plant-Microbe Interaction: An Approach to Sustainable Agriculture*, Chapter: 11, Publisher: Springer Nature, Devendra K. Choudhary et al. (Eds.), pp.227-247. DOI: 10.1007/978-981-10-2854-0_11.
- ◆ Asha Sahu, **S Bhattacharjya**, A Mandal, JK Thakur, N Sahu, N Atoliya, MC Manna, AK Patra (2017). Microbes: a sustainable approach for enhancing nutrient availability in agricultural soils. In: *Agriculturally important microbes for sustainable agriculture*. Meena et al. (Eds.) Springer Publication. (**Accepted**).
- ◆ Raverkar, K. P. Sudeshna Bhattacharya (2014). Arbuscular Mycorrhizae: Status and Potential. In: *Bioresources for Sustainable Plant Nutrient Management*. Satish Serial Publishing House, pp: 249-287.