


Profile of Dr. Sudeshna Bhattacharjya

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.