

# Profile

Dr. A. B. Singh



Designation: Principal Scientist  
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**Research specialization:** Biochemical study in Soil and Plant, Organic Farming, recycling of various organic wastes, MSW, distillery effluents, integrated nutrient management system, compost quality evaluation, various crops, nutritional quality of various crops grown under different nutrient management systems, developed composting technologies and Organic Farming package of practices for soybean, wheat, mustard, chickpea and linseed crops.

**Professional Experience:** Presently working as Principal Scientist, ICAR-Indian Institute of Soil Science, Bhopal since March, 2007. He started his career as Assistant Professor at HPKV, Palampur in December, 1992 and became Senior Scientist from 22<sup>nd</sup> March 1999 to March, 2007. He taught U G and PG courses of Biochemistry, guided 20 M. Sc. and 08 Ph. D students of different disciplines including Agronomy, Horticulture, Plant Breeding, Soil Science, Microbiology and Plant Physiology in the year 1993 to March, 1999 at CSK-HPKV, Palampur as Co-guide. As Course Director, conducted three winter school, 02 MTC and 02 short course trainings to assistant professors and scientists of NARS system. He also conducted 35 farmers training and one Western Region Agriculture Fair-2013 at ICAR-Indian Institute of Soil Science. He has published 88 research articles in various national and international journals, 10 Technical bulletins, 32 popular articles, 30 book chapters/manuals, 08 books, 07 extension folders and 10 invited papers/full length papers published in proceedings. He has produced two video films on Organic farming and vermicomposting in three languages (hindi, english and telgu).

**Awards and Honours:** Vice Chancellor Gold Medal Award for outstanding Academic performance during Master Degree Programme, Elected as treasurer, Indian Society of Agricultural Biochemists, Palampur Chapter, Elected Executive member of the Indian Society of Agricultural Biochemists for the year January 2004 to December 2006, Nominated Council Member of Indian Society of Agricultural Resource Management Coimbatore for the year 2005-2006, Acted as Reviewer of the Indian journal of Agricultural Sciences and Indian journal of Agricultural Biochemistry, Received Second Best Poster Paper Award on "Effect of Organic Nutrient Sources on Yield, Quality and Soil Biological Properties under Soybean-Wheat Cropping System in Vertisol during International Symposium on Organic Farming and Renewable Sources of Energy for Sustainable Agriculture held at MPT University of A & T, Udaipur, Received the Best Poster Presentation Award -2011 for paper "Phyto-extraction of Cr by the some Floriculture plants at National Seminar of Plant Physiology during 24-26, November, 2011 at Ram Narain Ruia College Matunga, Received the Best Poster Presentation Award -2018 for paper "Effect of organic and Inorganic sources of nutrients on crop productivity and soil health under maize-chickpea cropping sequence in a vertisol. In:

National Conference on Organic waste management for Environmental and Food Security during February 8-10, 2018 at ICAR-IISS, Bhopal, Dr JPS Yadav Memorial Team, Award for contribution in Recycling of distillery effluents in agriculture for higher crop productivity and fertilizer saving and developing prescription for their safe use” at the 77<sup>th</sup> Annual Convention of the Indian Society of Soil Science on 3<sup>rd</sup> December 2012 at Ludhiana, Fellow of Indian Society of Agricultural Biochemists (ISAB) (2010) and Shri Ram Puraskar by FAI New Delhi for the article “Saghan Phaslontpadhan mein Jasta Prabandh “Published in Khad Patrika, August, 2012 Issue, Member of IMC, ICAR-DWR, Jabalpur for 11/09/2018 to 10/09/2021 and Member of Academic Council of Agriculture, Atal Bihari Vajpayee Hindi Vishwavidyalay Bhopal for 13/04/2018 to 12/04/2021.

## Top Ten Publications:

1. **Singh Amar B**, Biswas Ashish K and Ramana Sivakoti (2003). Effect of distillery effluents on plant and soil enzymatic activities and groundnut quality *J. Plant Nutr. Soil Sci.* **166**: 345-347
2. **Singh AB**, Ghosh PK and Ajay (2003). Effect of integrated nutrient management practices on improvement in grain quality of soybean (*Glycine max*), sorghum (*Sorghum bicolor*) and wheat (*Triticum aestivum*) in multiple cropping systems in Vertisol. *Indian Journal of Agricultural Sciences*, **73 (2)**: 65-68
3. Ramana S, Biswas AK and **Singh AB (2002)**. Effect of distillery effluents on some physiological aspects in maize. *Bioresource Technology* **84**: 295-297.
4. Ramana S, Biswas AK, **Singh AB** and Yadav RBR (2002). Relative efficacy of different distillery effluents on growth, nitrogen fixation and yield of groundnut *Bioresource Technology*, **81(2)**: 117-121
5. **Singh AB**, Saha JK and Ghosh PK (2008) Effect of nutrient management practices on soybean (*Glycine max*) - chickpea (*Cicer arietinum*) cropping system for improving yield, quality and soil biological health under rain fed condition *Indian Journal of Agricultural Sciences* **78(6)**: 485-489
6. Ramesh, P, N R Panwar, **AB Singh**, Sivakoti Ramana and Annangi Subba Rao (2009). Impact of organic – manure combination on the productivity and soil quality in different cropping systems in central India *Journal of Plant Nutrition and Soil Science* **172**: 577-585
7. Panwar NR, Ramesh P, **Singh AB** and Ramana S (2010). Influence of Organic, chemical and Integrated Nutrient Management Practices on Soil Organic Carbon and Soil Nutrient Status under Semi-arid Tropical Conditions in Central India. *Communications in Soil Science and Plant Analysis*, **41**:1–11.
8. **Singh A B** and Manna, M C (2018). Solid Waste Management through Vermi and Phosphate-Enriched Composting Techniques for Sustainable Agriculture. *Water Science and Technology*, Vol. 79: 399-406, NAAS: 7.20.
9. Bharat Prakash Meena, A.K. Biswas, Muneshwar Singh, R S Chaudhary, A.B. Singh, H. Das and A K Patra (2019). Long-term sustaining crop productivity and soil health in maize–chickpea system through integrated nutrient management practices in Vertisols of Central India, *Field Crops Research*, **232**: 62-76.
10. Avijit Ghosh, A B Singh, R V Kumar, M C Manna, Rajan Bhattacharyya, M M rahman, Poonam Sharma, P S Rajput and Sukanya Misra (2019). Soil Enzymes and microbial elemental stoichiometry as bio-indicators of Soil quality in diverse cropping systems and nutrient management practices of Indian Vertisols. *Applied Soil Ecology*, **1**- 13.