

Profile of Dr. Muneshwar Singh

Name : Dr. Muneshwar Singh
Designation : Project Coordinator AICRP on Long-Term Fertilizer Experiments to Study Changes in Soil Quality, Crop Productivity and Sustainability
Education : M. Sc. (Ag.)-and Ph.D (Soil Science)
G.B. Pant University & Technology, Pant Nagar
Nanital)
Major research areas : Nutrient management and assessment of soil quality.
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Professionals Experience

| Name of employer/Institute | Post held | Period | Work Description |
|--|----------------------------------|-----------------------|--|
| Indian Institute of Soil Science, Bhopal | Project Coordinator (LTFE) | Aug. 2005 till date | Planning and monitoring the work of the 18 centres of AICRP-LTFE located throughout the country |
| Indian Institute of Soil Science, Bhopal | HOD Soil Chemistry and Fertility | July 2001-Aug 2005 | Planning and execution of research programme of the Division “ Nutrient Management and Fertility Improvement “ |
| Indian Institute of Soil Science, Bhopal | Principal Scientist | July 1998-July 2001 | Research on Integrated nutrient management, quantification of N fixation in soybean-wheat & nutrient transformation in soil. |
| Indian Institute of Soil Science, Bhopal | Senior Scientist | July 1989- July 98 | Integrated nutrient management in rice-wheat system. |
| Potash Research Institute of India Gurgaon | Scientist | April 1985- July 1989 | Diagnosis of nutrient deficiency through plant analysis for sustainable productivity |
| R.B.S. College Agra | Jr. Soil Scientist | Feb. 1983-April | Use of saline water in agriculture. |

Award;

- TSI-FAI Award on “Plant Nutrient Sulfur (Biennial) (2006)
- FAI Golden Jubilee Award for Excellence for “Development of Best Fertilizer Management Practices (2008)”
- Honors
- Inducted as Fellow of Indian Society of Soil Science
- DR. N. S Randhawa memorial lecture
- Nominated as Editor of Journal of Indian Society of Soil Science (2006)
- Reviewer of the following Journals
- Australian Journal Soil Research, Australia
- Fields Crop Research, The Netherlands
- Journal of Colloidal & Interface Science, England
- Journal Surface Chemistry, AMU Aligarh
- Indian Journal of agricultural Science, New Delhi
- Indian Society Soil Science, Delhi
- Journal of Potassium Research, Delhi
- Annals of Arid zone, Jodhpur

Publication

- Paper published in refereed Journals 112

International training organized

- On integrated plant Nutrient supply for Russian Scientist
- Developed **Advanced Method of Instrumentation in Soil Science**

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Some Selected Publications

1. **Singh, Muneshwar** and Singh, T.A. (1981). Free proline accumulation in maize (*Zea. mays. L*) Subjected to prolonged water logging. *Plant and Soil*. 59: 349-351
2. **Singh, Muneshwar**, Reddy, K.S., Singh, V.P. and Rupa, T.R. (2006). Phosphorus availability to rice (*Oriza Sativa L.*)- Wheat (*Triticum estivum L.*) in a Vertisol after eight years of inorganic and organic fertilizer additions. *Bio Resource Technology*. 98. 1474-1481.
3. **Singh Muneshwar**, Singh, V.P. and Reddy, D.D. (2001). Potassium balance and release kinetics under continuous rice-wheat cropping system in Vertisol. *Field Crop Research*. 77:81-91
4. **Singh, Muneshwar**, Kundu, S., Biswas, A.K., Saha, J.K., Tripathi, A.K. and Acharaya, C.L. (2004). Quantification of N₂ fixation and annual N benefit from N₂ in soybean accrued to the soil under soybean-wheat continuous rotation. *Journal of Plant Nutrition and Soil Science*, 167:577-583
5. **Singh, Muneshwar**, Tripathi, A.K., Reddy, K.S. and Singh K. N. (2001). Soil phosphorus dynamics in a Vertisol as affected by cattle manure and nitrogen fertilization in soybean-wheat system. *Journal of Plant Nutrition and Soil Science*, 164, 691-696.
6. **Singh, Muneshwar**, Tripathi, A.K. and Reddy, D.D. (2002). Potassium balance and release of kinetics of non-exchangeable K in Typic Haplustert as influenced by cattle manure application under soybean-wheat system. *Australian Journal of Soil Research*, 40, 533-541.

7. **Singh, Muneshwar**, Wanjari, R.H., Dwivedi, Anil and Dalal, Ram (2012) Yield response to applied nutrients and estimates of N₂ fixation in 33- year-old soybean-wheat experiment on a Vertisols. *Experimental Agriculture*, 48:311-325.
8. **Singh, Muneshwar** and Takkar, P.N. (1997). Influence of neem oil coated urea and maxican lilac (*Glyricidia-sepium*) as green manure on transformation of soil nitrogen in rice (*Oriza sativa*) wheat (*Triticum vulgare*) system in Typic haplustert . *Indian Journal of. Agricultural Science.*, 67. 388-391.
9. **Singh, Muneshwar**, Tripathi, A.K., Kundu, S., and Takkar, P.N. (1998). Nitrogen requirements of soybean (*Glycine- max*) wheat (*Triticum-vulgare*) cropping system and biological N fixation as influenced by integrated use of fertilizer N and farmyard manure in Typic Haplustert. *Indian Journal of. Agricultural Science*, 69. 73 - 75.
10. **Singh Muneshwar**, R.H. Wanjari, Anil Dwivedi and Ram Dalal (2012) Yieldresponse to applied nutrients and estimates of N₂ fixation in 33years old soybean –wheat experiment on a vertisol. Jr. Expt. Agriculture 48; 311-325