

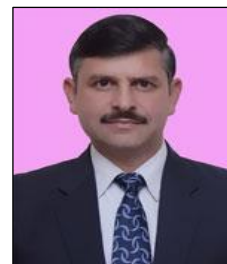
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### Ongoing Research Projects

- “Enhancing farm income through climate resilient Subhash Palekar Natural Farming System in horticulture ecosystems” funded by Department of Agriculture, Government of Himachal Pradesh for ₹ 153.6 lakh from 2019 to 2023 (Co-Principal Investigator)
- “Studies on the effect of nano-urea and nano-DAP on growth, yield and quality of apple” funded by Indian Farmers Fertiliser Cooperative Limited (IFFCO), New Delhi for ₹ 10.83 lakh from 2023 to 2024 (Principal Investigator).
- “Entrepreneurship and skill development in soilless cultivation and vertical farming” funded by ICAR-NAHEP (IDP)/World Bank for ₹15.0 lakh from 2020 to 2023 (Activity In charge since October 2022).

### Important research publications

- Verma S and Sharma PK. 2007. Effect of long-term manuring and fertilizers on carbon pools, soil structure and sustainability under different cropping systems in wet-temperate zone of north-west Himalayas. *Biology and Fertility of Soil* **44**:235-240
- Verma S, Subehia SK and Sharma SP. 2005. Phosphorus fractions in an acid soil continuously fertilized with mineral and organic fertilizers. *Biology and Fertility of Soils* **41**(4):295-300
- Verma S and Sharma PK. 2008. Long-term effects of organics, fertilizers and cropping systems on soil physical productivity evaluated using a single value index (NLWR). *Soil and Tillage Research* **98**:1-10
- Ladha JK, Tirol-Padre A, Reddy CK, Cassman KG, Verma S, Powlson DS, van Kessel C, de B Richter D, Chakraborty D and Pathak H. 2016. Global nitrogen budgets in cereals: A 50-year assessment for maize, rice, and wheat production systems. *Scientific Reports* **6**: 19355
- Mittal D, Shukla R, Verma S, Sagar A, Verma KS, Pandey A, Negi YS, Saini RV and Saini AK. 2019. Fire in pine grown regions of Himalayas depletes cultivable plant growth promoting beneficial microbes in the soil. *Applied Soil Ecology* **39**:117–124. <https://doi.org/10.1016/j.apsoil.2019.03.020>
- Jha P, Verma S, Lal R, Eidson C and Dheri GS. 2017. Natural <sup>13</sup>C abundance and soil carbon dynamics under long-term residue retention in a no-till maize system. *Soil Use and Management* **33**: 90-97
- Das A, Lal R, Somi reddy U, Bonin C, Verma S and Rimal B. 2016. Changes in soil quality and carbon storage under biofuel crops in central Ohio. *Soil Research* **54**(4): 371-382

- Sharma S, Chander G, Verma TS and Verma S. 2013. Soil potassium fractions in rice-wheat cropping system after twelve years of lantana residue incorporation in a North-West Himalayan acid Alfisol. *Journal of Plant Nutrition* **36**:1809-1820. DOI: 10.1080/01904167.2013.815202
- Panwar P, Pal S, Verma S, Loria N, Verma MR, Bhatt VK and Sharma NK. 2022. Long-Term Impact of Forest-Based Land Uses on Soil Quality Indicators in Himalayan Region. *Agricultural Research* **11**: 204-214
- Chandel RS, Gupta M, Sharma S, Sharma PL, Verma S and Chandel A. 2021. Impact of Palekar's Natural Farming on Farmers' Economy in Himachal Pradesh. *Indian Journal of Ecology* **48**(3): 873-878

## **Awards & Recognitions**

- Raman Post-Doctoral Fellowship from UGC under the themes “Carbon Sequestration, GHG Emissions and Soil Health in relation to Climate Change” at Carbon Management and Sequestration Centre, School of Environment and Natural Resources, Ohio State University, Columbus, USA from August-2013 to August-2014.
- Visiting Scientist at Institut für Bodenkunde (Institute of Soil Science), Leibniz Universität Hannover, Germany w.e.f. 9<sup>th</sup> to 30<sup>th</sup> March 2023 under ICAR-NAHEP (IDP).
- Travel Grant by Stockholm International Water Institute (SIWI), Sweden for “World Water Week-2012” at Stockholm, Sweden in August 2012.
- Awarded “Best Presentation Award” during 2019 for the state of HP, during the Annual Zonal Workshop of KVKs of Zone-I organized by ICAR-ATARI (Zone-I), Ludhiana.
- Awarded “Second Best Presentation Award” during 2020 for the state of HP, during the Annual Zonal Workshop of KVKs of Zone-I organized by ICAR-ATARI (Zone-I), Ludhiana.
- Awarded “Third Best Paper Presentation Award” for oral presentation in 2nd National Conference on “Advances in Sustainable Agriculture” organized by Society of Krishi Vigyan w.e.f. 26-28 September 2020.
- Selected from North zone for ISSS Best Doctoral Research Presentation Award-2006
- Commendation certificate for “Indian Society of Soil Science - Best Doctoral Research Presentation -2006”
- University Merit Scholarship holder during Ph.D.
- Certificate of Honour during B.Sc., M.Sc. and Ph.D.