

PROFILE



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Designation : Pr. Scientist (Agronomy: Weed Management /Crop Husbandry/ Soil Fertility)

Education : MSc (Agronomy), PhD (Agronomy)

Major Research Area : Soil fertility (Long term fertilizer experiments)

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Professional experience : Scientist in ICAR since January 1999

Awards : Chaudhury Devi Lal Outstanding AICRP Award (2005) collaborative award to AICRP LTFE by Indian Council of Agricultural Research, New Delhi

PUBLICATION = 25

FULL LENGTH PAPERS IN REFERRED JOURNALS ONLY:

1. **Wanjari RH**, Muneshwar Singh, SD Jadhao, Prabhakar Mahapatra, AR Saha, RK Nayak, AK Dash, K Arulmozhiselvan and M Elayarajan (2013) Soil microbial diversity in long term fertilizer experiments in different agroecological zones in India. *International Journal of Bioresource and Stress Management* 4(2):169-172.
2. **Wanjari RH**, Mandal KG, Ghosh PK, Tapan Adhikari, Rao NH (2006). Rice in India: present status and strategies to boost its production through hybrids. *Journal of Sustainable Agriculture, USA* 28(1):19-39.
3. **Wanjari RH**, Singh MV and Ghosh PK (2004). Sustainable Yield Index: an approach to evaluate the sustainability of long-term intensive cropping systems in India. *Journal of Sustainable Agriculture*, 24(4): 39-56.
4. Manna MC, Swarup A, **Wanjari RH**, Singh YV, Ghosh PK, Singh KN, Tripathi AK and Saha MN (2006) Soil organic matter in a West Bengal Inceptisol after 30 years of multiple cropping and fertilization. *Soil Science Society of America Journal* 70:121-129.
5. Manna MC, Swarup A, **Wanjari RH**, Ravankar HN, Mishra B, Saha MN, Singh YV, Sahi DK and Sarap PA (2005) Long-term effect of fertilizer and manure application on soil organic carbon storage, soil quality and yield sustainability under sub-humid and semi-arid tropical India. *Field Crops Research* 93:264-280.
6. Singh Muneshwar, **RH Wanjari**, Anil Dwivedi and Ram Dalal (2012) Yield response to applied nutrients and estimates of N₂ fixation in 33- year-old soybean-wheat experiment on a Vertisol. *Experimental Agriculture*. 48(3): 311-325.
7. Jha Pramod, Brij Lal Lakaria, AK Biswas, R Saha, P Mahapatra, BK Agrawal, DK Sahi, **RH Wanjari**, R Lal, Muneshwar Singh, and AS Rao (2014) Effects of carbon input on soil carbon stability and nitrogen dynamics. *Agriculture, Ecosystems and Environment* 189:36-42 (<http://dx.doi.org/10.1016/j.agee.2014.03.019>).
8. Hati, KM, Swarup Anand, Mishra B, Manna MC, **Wanjari RH**, Mandal KG and Misra AK (2008). Impact of long term application of fertilizer, manure and lime under intensive cropping on physical properties and organic carbon content of an Alfisol. *Geoderma* 148: 173-179.
9. Ghosh, PK, Manna MC, Bandyopadhyay KK, Ajay, Tripathi AK, **Wanjari RH**, Hati KM, Mishra AK, Acharya CL and Subba Rao A (2007) Inter-specific interaction and nutrient use in soybean/sorghum intercropping system. *Agronomy Journal (USA)* 98:1097-1108.
10. Manna MC, Swarup A, **Wanjari RH**, Mishra B (2007) Long-term effects of NPK fertilizer and manure on soil fertility and a sorghum-wheat farming system. *Australian Journal of Experimental Agriculture*, 47:700-711.
11. Manna MC, Swarup A, **Wanjari RH**, Mishra B (2007) Long-term fertilization, manure and liming effects on soil organic matter and crop yields. *Soil and Tillage Research*, 94:397-409.

12. Ghosh PK, Manna MC, Dayal D and **Wanjari RH** (2006) Carbon sequestration potential and sustainable yield index for groundnut- and fallow -based cropping systems. *Journal of Agricultural Science* (Cambridge) 144:1-11.
13. Adhikari Tapan, Manna MC, Singh MV and **Wanjari RH** (2004). Bioremediation measure to minimize heavy metals accumulation in soils and crops irrigated city effluent. *Food, Agriculture and Environment* 2(1): 266-270.
14. Ghosh PK, Devi Dayal, Mandal KG, **Wanjari RH** and Hati KM (2003). Optimization of fertilizer schedules in fallow and groundnut-based cropping systems and an assessment of system sustainability. *Field Crops Research*, 80: 83-98.

BOOK

- Muneshwar Singh, AK Biswas, AB Singh, AK Tripathi, **RH Wanjari**, K Ramesh, Sanjay Srivastava and A Subba Rao (2013) Souvenir-Soil Health for Sustainable Productivity. Western Region Agriculture Fair, Indian Institute of Soil Science. p. 1-160.
- Subba Rao A, AB Singh, **RH Wanjari**, K Ramesh, M Vassanda Coumar and KC Shinoji (2014) *Glimpses of IISS Contributions in Technology Generation and Dissemination*. Indian Institute of Soil Science, Bhopal. pp. 124.

BOOK CHAPTERS

- **Wanjari RH**, Blaise Desouza and RK Singh (2014) Weed management in conservation agriculture. *In Conservation Agriculture for Carbon Sequestration and Sustaining Soil Health* (Eds J Somasundaram, RS Chaudhary, A Subba Rao, KM Hati, NK Sinha and M Vassanda Coumar, 2014; Published by New India Publishing Agency, New Delhi p. 532). pp 83-92.
- Muneshwar Singh and **RH Wanjari** (2014) Conservation Agriculture: Biomass recycling and nutrient dynamics. *In Conservation Agriculture for Carbon Sequestration and Sustaining Soil Health* (Eds J Somasundaram, RS Chaudhary, A Subba Rao, KM Hati, NK Sinha and M Vassanda Coumar) Published by New India Publishing Agency, New Delhi pp 17-27.
- Singh RK, J Somasundaram, RS Chaudhary, NK Sinha and **RH Wanjari** (2014) Effect of crop cover on runoff, soil and nutrient losses. *In Conservation Agriculture for Carbon Sequestration and Sustaining Soil Health* (Eds J Somasundaram, RS Chaudhary, A Subba Rao, KM Hati, NK Sinha and M Vassanda Coumar) Published by New India Publishing Agency, New Delhi pp 503-513.
