

Brief biodata of Dr. Khajanchi Lal

1. Name: Dr. Khajanchi Lal
2. Date of birth: Nov. 24, 1965.
3. Present position: Senior Scientist, Soil chemistry/ Fertility/microbiology
Division of Soils & Crop Management, CSSRI, Karnal
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4. Academic Record

Degree	Uni. /Institute	Year	Division	%age (OGPA)	Subject
Ph.D	IARI, New Delhi	1992	Ist	3.80/4.00	Soil Science & Agril. Chemistry
MSc.	-do-	1989	Ist	3.74/4.00	-do-
BSc. (Hons.)	HAU, Hissar	1986	Ist	3.82/4.00	Agriculture

5. Research Experience:

- (a) Total yrs) 15
- (b) Year wise breakup with position
Scientist: 5years; Scientist senior Scale: 4 years and Sr. Scientist: 6 years

6. Specialization:

(a) Scientific capabilities and interests:

Capabilities: Analysis of sewage and industrial effluent under different cropping systems, radio tracer techniques, physical and chemical analysis of soil, plant & water, nutrient interactions mineralogical analysis of soils, research in the areas of poor quality water and salt affected soils

Interest: Use of Urban and Industrial effluent in agriculture.

Soil organic carbon dynamics in salt affected soils.

Management of poor quality waters

(b) Salient Accomplishments Completed projects on:

1. Wastewater Use in Agriculture
2. Soil Organic matter dynamics and carbon sequestration in salt affected soils
3. Chemical and mineralogical changes in alkali soil under saline and sodic irrigation
4. Use of fly ash in reclaimed alkali soil

(c) International Exposure

1. Second project Implementation workshop of Indo-US AKI project on Water Management at Iowa State University, Ames USA from 21-29 February 2008.
2. Water Quality and Bioremediation, Agricultural Research Centre, Cairo, Egypt from 1-14 September 2007.
3. Training on 'Impact of poor quality waters on plant growth and soil properties' from 1st April to 30th April 2003 at University of California, Davis, USA.

7. Publications

- a) (i) Research Journals: 17
 - (ii) Books: 1
 - (iii) National/International Seminar/Symposia: 16
 - (iv) Bulletins/Technical Reports:
- Total: 34

b) Best 5 Publications of last 10 years

1. **Khajanchi Lal**, P.S. Minhas, Shipra, R.K. Chaturvedi and R.K. Yadav. 2008. Extraction of Cadmium and Tolerance of Three Annual Cut Flowers on Cd-contaminated Soils. *Bioresource Technology* 99: 1006-1011.

2. **Khajanchi Lal**, S.S. Goyal, M. Sethi, P.C. Sharma, Anand Swarup and S.K. Gupta. 2007. Effect of NaCl Concentration on Growth, Root Morphology and Photosynthetic Pigmentations in Wheat and Barley under Solution Culture. *Agrochimica* 51 (4-5): 194-206.
3. **Khajanchi Lal**, Anand Swarup and K.N. 2007. Singh Potassium Balance and Release Kinetics of Non-exchangeable K in a Typic Natrustalf as Influenced by Long Term Fertilizer Use in Rice-Wheat Cropping System. *Agrochimica* 51 (2-3): 95-104.
4. **Khajanchi Lal**, A.D. Mongia, Raj Kumar and Anand Swarup. 2007. Ion Released and Sodium Hazards in an Alkali Soil under Saline/Sodic Irrigation Waters. *Journal of the Indian Society of Soil Science* 55: 119-126.
5. **Khajanchi Lal**, P.S. Minhas, R.K. Chaturvedi and R.K. Yadav. Cadmium Uptake and Tolerance of Three Aromatic Grasses on Cd-rich Soils. *Journal of the Indian Society of Soil Science*.

c) Best 10 publications of whole career

1. **Khajanchi Lal**, P.S. Minhas, Shipra, R.K. Chaturvedi and R.K. Yadav. 2008. Extraction of Cadmium and Tolerance of Three Annual Cut Flowers on Cd-contaminated Soils. *Bioresource Technology* 99: 1006-1011.
2. **Khajanchi Lal**, S.S. Goyal, M. Sethi, P.C. Sharma, Anand Swarup and S.K. Gupta. 2007. Effect of NaCl Concentration on Growth, Root Morphology and Photosynthetic Pigmentations in Wheat and Barley under Solution Culture. *Agrochimica* 51 (4-5): 194-206.
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5. **Khajanchi Lal**, P.S. Minhas, R.K. Chaturvedi and R.K. Yadav. Cadmium Uptake and Tolerance of Three Aromatic Grasses on Cd-rich Soils. *Journal of the Indian Society of Soil Science*.
6. Kamra, S.K., **Khajanchi Lal**, O.P. Singh and J. Boonstra 2002. Effect of pumping on temporal changes in ground water quality. *Agricultural Water Management* 56: 169-178.
7. **Khajanchi Lal**, A.D. Mongia and R. Chhabra. Potassium and sodium release behaviour with fly ash application in rice in a reclaimed alkali soil. *Journal of Potassium Research*. (Accepted)
8. Mongia, A.D., **Khajanchi Lal** and J.C. Dagar. 2003. Soil vegetation correlation in salt affected soils of western Rajasthan, India. *SAARC Journal of Agriculture*. **1**, 157-165.
9. Mongia, A.D., R. Chhabra and **Khajanchi Lal**. 2003. Possibility of using fly ash as a source of silica for increasing rice productivity on a reclaimed alkali soil. *Journal of Indian Society of Soil Science*. *Journal of the Indian Society of Soil Science* **51**: 89-91.
10. Mongia, A.D.; A.K. Bandyopadhyay & **Khajanchi Lal**. 1999. Characterization of soil potassium and quantity/ intensity relations of potassium in soils. *Journal of Indian Society of Soil Science* 48: 379-381

8. Awards/Special recognitions

1. Junior Research Fellowship during M.Sc. at IARI
2. Senior Research Fellowship during Ph.D. at IARI, New Delhi
3. Conducted sessions in ICAR Sensitization workshop on "Process of Agriculture Knowledge Management at KVK for Training Organizers" held at Ludhiana, Kanpur and Thiruanathpuram
4. Participated in Indo-US planning workshop on Water Management at New Delhi.
5. Reviewer for research articles in *Journal of Indian Society of Soil Science*