DR. M. L. DOTANIYA

Name: **Dr M L Dotaniya**

Designation: Scientist

Date of birth: 30/06/1982

Education: Ph. D. (Soil Science & Agricultural Chemistry)

Major Research area: Soil chemistry/Fertility/ Microbiology; Heavy Metal pollution; Soil and Water Pollution; Phosphorus Dynamics; Carbon Sequestration; Crop Residue Management

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Professional Experience

Since 20th April, 2010, working as a Scientist in the Division of Environmental Soil Science, ICAR-IISS, Bhopal.

Awards

Young Scientist Award by Samgra Vikas Welfare Society-2016

Best Oral Paper Presentation Award by Search & Research Society- 2015

Publications (Ten best publications)

1. **Dotaniya M. L.,** Meena V. D., Rajendiran S., Coumar M. Vassanda, Saha J. K., Kundu S., Patra A. K. (2016). Geo-accumulation indices of heavy metals in soil and groundwater of Kanpur, India under long term irrigation of tannery effluent. Bull Environ Contam Toxicol. DOI:10.1007/s00128-016-1983-4
2. **Dotaniya M. L.,** Rajendiran S., Meena V. D., Saha J. K., Coumar M. Vassanda, Kundu S., Patra A. K. (2016). Influence of chromium contamination on carbon mineralization and enzymatic activities in Vertisol. Agric Res DOI: 10.1007/s40003-016-0242-6
3. **Dotaniya M. L**., Datta S. C., Biswas D. R., Dotaniya C. K., Meena B. L., Rajendiran S., Regar K. L. (2016). Use of sugarcane industrial byproducts for improving sugarcane productivity and soil health. Intl J Recyc Org Waste Agric. 5:185–194 DOI: 10.1007/s40093-016-0132-8
4. **Dotaniya, M. L**., Das, H. and Meena, V. D. (2014). Assessment of chromium efficacy on germination, root elongation, and coleoptile growth of wheat (*Triticum aestivum* L.) at different growth periods. Environ Monit Assess. 186:2957-2963. DOI 10.1007/s10661-013-3593-5

5. **Dotaniya, M. L**., Kushwah, S. K., Rajendiran, S., Coumar, M. V., Kundu, S. and Rao, A. Subba (2014). Rhizosphere effect of kharif crops on phosphatases and dehydrogenase activities in a Typic Haplustert. Nat. Acad. Sci. Lett. 37(2):103–106.DOI: 10.1007/s40009-013-0205-4

6. **Dotaniya, M. L**., Datta, S. C., Biswas, D. R. and Kumar, K. (2014). Effect of organic sources on phosphorus fractions and available phosphorus in Typic Haplustept. J. Indian Soc. Soil Sci. 62(1):80-83.
7. **Dotaniya M. L**., Datta S. C., Biswas D. R., Meena H.M. and Kumar K. (2014). Production of oxalic acid as influenced by the application of organic residue and its effect on phosphorus uptake by wheat (*Triticum aestivum* L.) in an Inceptisol of north India. Nat. Acad. Sci. Lett. 37(5):401-405. DOI :10.1007/s40009-014-0254-3

8. **Dotaniya, M. L**., Datta, S.C., Biswas, D.R. and Meena B.P. (2013). Effect of solution phosphorus concentration on the exudation of oxalate ions by wheat *(Triticum aestivum* L.). Proc. Nat. Acad. Sci., India Sec. B: Biol. Sci. 83(3):305–309. DOI 10.1007/s40011-012-0153-7

9. **Dotaniya, M. L**., Datta, S.C. (2014). Impact of bagasse and press mud on availability and fixation capacity of phosphorus in an Inceptisol of north India. Sugar Tech 16(1):109-112. DOI 10.1007/s12355-013-0264-3

10. **Dotaniya M. L.** and Meena V. D. (2013). Rhizosphere effect on Nutrient Availability in soil and Its Uptake by plants -A review. Proc. Nat. Acad. Sci., India Sec. B: Biol. Sci. 85(1):1–12 DOI 10.1007/s40011-013-0297-0