



Dr M L Dotaniya

Scientist

(Soil Science & Agricultural Chemistry)

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1. Date of Birth : June 30, 1982
2. Education Qualification : Ph.D. (Soil Science & Agricultural Chemistry), ICAR-IARI, New Delhi (2011); M. Sc. (Soil Science), GBPUA&T, Pantnagar (2006); B. Sc. (Ag), SKN COA, Jobner (2004)
3. Joining Date in ICAR : 20-04-2010
4. Joining Date in DRMR : 28-06-2018
5. Discipline/Specialization : Natural Resource Management
6. Training/advance exposure in the area of work : Obtained training on “Bioremediation of heavy metal and hazardous wastes contaminated soil and water ecosystem” during 1-14th Dec., 2011 at Tamil Nadu Agricultural University, Coimbatore.

7. Contribution to the scientific advancement

- ✓ Computed Geo-accumulation Index for tannery contaminated soil.
- ✓ Identified chromium toxicity level in soil for microbial biomass C & enzymatic activities.
- ✓ Long- term impact of sewage irrigation on C sequestration and soil quality.
- ✓ Interactive effect of chromium and cations on plant phytotoxicity.
- ✓ Assessment of biochar potential for remediation of heavy metal contaminated soil.
- ✓ Application of industrial waste for minimizing heavy metal toxicity.
- ✓ Identification of mustard potential for heavy metal removal.

8. Current Research Projects & Future planning of research

- Identification of rapeseed-mustard potential for heavy metal remediation.
- Identification and management of saline- alkaline soil for improving mustard crop yield.

9. Awards/ Recognition's

- ✚ The Golden Jubilee Commemoration Young Scientist Award-2019 Indian Society of Soil Science, New Delhi.
- ✚ Young Scientist Award-2016 by Venus International Foundation, Chennai.
- ✚ Young Scientist Award-2016 by Samgra Vikas Welfare Society, Lucknow.
- ✚ Best Oral Paper Presentation Award-2015 in International conference organized by Search & Research Society, Bhopal.
- ✚ Excellence in Research Award-2015 by 3rd Faculty Branding Awards, Noida.
- ✚ Session Co-Chaired in International Conference (ICWEES-2016) organized by AISECT University, Bhopal and A & M University, Texas, USA on Energy and Environment during 15-18 March, 2016.
- ✚ Editor-Journal of PLOS ONE
- ✚ **Councillor**-Indian Society of Soil Science, New Delhi for the year 2021-22 and 2022-2023; Executive

Council of Arid Zone Research Association of India Jodhpur for the biannium 2022-2023.

- ✚ **Fellowships**-Junior Research Fellowship-2004 (Physical Science) for M. Sc (Ag); IARI Fellowship-2006 for Ph. D. (Soil Science & Agricultural Chemistry); CSIR-NET (JRF)-2005 in Earth, Atmospheric, Ocean and Planetary Sciences; JNU Fellowship-2004 for M.Sc. (Ag) Biotechnology.

10. Publication (Best Research Paper)

1. **Dotaniya ML**, Meena VD, Saha JK, Dotaniya CK, Mahmoud AED, Meena BL, Meena MD, Sanwal RC, Meena Rs, Doutaniya RK, Solanki P, Lata M, Rai PK (2022) Use of poor quality water for sustainable crop production in changing scenario of climate change. *Environment, Development and Sustainability* doi 10.1007/s10668-022-02365-9 (NAAS Score 9.22)
2. **Dotaniya ML**, Pipalade JS, Jain RC, Rajendiran S, Gupta SC, Vyas MD, Coumar MV, Sahoo S, Saha JK, Kumar A (2022) Nickel-mediated lead dynamics and their interactive effect on lead partitioning and phytoremediation indices in spinach. *Environ Monit Assess* 194:334 (NAAS Score 8.51)
3. Minhas PS, Saha JK, **Dotaniya ML**, Saha A, Saha M (2021) Wastewater irrigation in India: Current status, impacts and response options. *Sci Total Environ* 808:1-17 (NAAS Score 10.96)
4. Meena MD, **Dotaniya ML**, Meena MK, Meena BL, Meena KN, Doutaniya RK, Meena HS, Moharana PC, Rai PK (2021) Maturity indices as an index to evaluate the quality of sulphur enriched municipal solid waste compost using variable byproduct of sulphur. *Waste Manage* 126:180-190 (NAAS Score 13.15)
5. **Dotaniya ML**, Saha JK, Rajendiran S, Coumar MV, Meena VD, Das H, Kumar A, Patra AK (2019) Reducing chromium uptake through application of calcium and sodium in spinach. *Environ Monit Assess* 191: 754 (NAAS Score 8.51)
6. **Dotaniya ML**, Saha JK, Rajendiran S, Coumar MV, Meena VD, Kundu S, Patra AK (2019) Chromium toxicity mediated by application of chloride and sulphate ions in Vertisol of Central India. *Environ Monit Assess* 191: 429 (NAAS Score 8.51)
7. **Dotaniya ML**, Rajendiran S, Coumar MV, Meena VD, Saha JK, Kundu S, Kumar A, Patra AK (2017) Interactive effect of cadmium and zinc on chromium uptake in spinach grown on Vertisol of Central India. *Intl J Environ Sci Tech* 15(2): 441-448 (NAAS Score 8.86)
8. **Dotaniya ML**, Das H, Meena VD (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 (NAAS Score 8.51)
9. **Dotaniya ML**, Meena VD, Rajendiran S, Coumar MV, Saha JK, Kundu S, Patra AK (2017) Geo-accumulation indices of heavy metals in soil and groundwater of Kanpur, India under long term irrigation of tannery effluent. *Bull Environ Contam Toxicol* 98(5): 706-711 (NAAS Score 8.15)
10. **Dotaniya ML**, Rajendiran S, Meena VD, Coumar MV, Saha JK, Kundu S, Patra AK (2018) Impact of long-term application of sewage on soil and crop quality in Vertisols of Central India. *Bull Environ Contam Toxicol* 101: 779–786 (NAAS Score 8.15)
11. **Dotaniya ML**, Pipalade JS (2018) Soil enzymatic activities as influenced by lead and nickel concentrations in a Vertisol of Central India. *Bull Environ Contam Toxicol* 101(3):380-385 (NAAS Score 8.15)
12. Pipalade JS, **Dotaniya ML** (2018) Interactive effects of lead and nickel contamination on nickel mobility dynamics in spinach. *Intl J Environ Res* 12(5): 553–560 (NAAS Score 8.48)
13. **Dotaniya ML**, Datta SC (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 (NAAS Score 7.59)

Other information

Google scholar- <https://scholar.google.co.in/citations?user=6F3UE7cAAAAJ&hl=en>

Researchgate - https://www.researchgate.net/profile/M_Dotaniya

Book: <https://www.springer.com/in/book/9789811042737>