



MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES, FARIDABAD

Sector 43, Aravalli Hills, Manav Rachna Campus Rd, Faridabad, Haryana 121004

DR. MANU SOLANKI

Designation: Professor

Qualifications: M.Sc.Microbiology, CCSHAU, Hisar

PhD. Microbiolohy, CCSHAU, Hisar

Email ID: solankimanu.fet@mriu.edu.in

Experience: 17 Years



Google Scholar Profile:

<https://scholar.google.com/citations?user=bAG9h7gAAAAJ>

Research Interest : Bioremediation, Mechanisms of P solubilization,Biofertilizers

+Journal Publication Details:

Mohanta, D., Ghangal, R., **Solanki, M.** and Patnaik S. 2020. Delivery of microbial metabolites for human health care: a review. Environ Chem Lett 18, 595–603.

Solanki, M., Kundu, B. S., & Nehra, K. 2018. Molecular diversity of phosphate solubilizing bacteria isolated from the rhizosphere of chickpea, mustard and wheat. Annals of Agrarian Science, 16(4), 458-463

Madhulika Chauhan, Manu Solanki and Kiran Nehra.2017.Putative Mechanism of Cadmium Bioremediation Employed by Resistant Bacteria. Jordan Journal of Biological Sciences. 10(2):101-107

Madhulika Chauhan and Manu Solanki .2017.Isolation and molecular characterization of three *bacillus* strains for their tolerance against various heavy metals. Journal of Microbiology,Biotechnology and Food Sciences 6 (4): 1065-1069

Manu Solanki, Nidhi Didwania and Vandana Nandal. 2016 Potential of Zinc Solubilizing Bacterial Inoculants in Fodder Crops. International Journal of Engineering Technology Science and Research 3 (12)1-4

Nidhi Didwania, **Manu Solanki** and Chanpreet Kaur.2016. Selection of Strain and Optimization of Asparaginase Production in Trichoderma harzianum International Journal of Engineering Technology, Management and Applied Sciences 4 (12): 31-34

Madhulika Chauhan and **Manu Solanki**.2015 Isolation of Cadmium Resistant Bacteria forEnvironmental Clean-up. Journal Of Pharmaceutical Research 7 (4):29-33

Madhulika Chauhan and Manu Solanki .2015. Biological treatment of sewage water by heavymetal resistant bacteria World Journal of Pharmaceutical Research 4 (12): 982-992.
Manu Solanki and F.C. Garg. 2014. The Use of lacZ marker in enumeration of <i>Azotobacter chroococcum</i> in carrier based inoculants.Brazilian Journal of Microbiology. 45(2) 595-601:
Singh U.V., Chand Tek, Raj Dev, Tomar Manu, Tomar N.K. 2012.Effect of Ionic Strength and Cationic Species of Contacting Solution on Phosphate Sorption by Soils Journal of the Indian Society of Soil Science 60(1): 1-7
B.S.Kundu, M.Tomar. , Kiran Nehra, and R. Yadav. 2009. Biodiversity of phosphate solubilising bacteria in rhizosphere of chickpea, mustard and wheat grown in different regions of Haryana. Indian Journal of Microbiology.49(2) 120-127

<p>+Research Supervised (PhD):</p> <ul style="list-style-type: none"> • Ms. Madhulika Chauhan on “Isolation screening and characterization of cadmium resistant bacteria” (Completed) • Ms. Vandana Nandal on “Seed bacterization for Enhancing zinc concentration in fodder crops” (completed)
<p>+ Book/Chapter Publications:</p> <p>Sarma A.P., Jain C., Solanki M., Ghangal R., Patnaik S. 2020. Role of Gene Editing Tool CRISPR-Cas in the Management of Antimicrobial Resistance. In: Panwar H., Sharma C., Lichtfouse E. (eds) Sustainable Agriculture Reviews 46. Sustainable Agriculture Reviews, vol 46. Springer, Cham. https://doi.org/10.1007/978-3-030-53024-2_6</p> <p>Mohanta D., Maneesha S., Ghangal R., Solanki M., Patnaik S. 2019. Bioactive Metabolites Isolated from Microorganisms for Healthcare: Types and Delivery Routes. In: Arora D., Sharma C., Jaglan S., Lichtfouse E. (eds) Pharmaceuticals from Microbes. Environmental Chemistry for a Sustainable World, vol 28. Springer, Cham. https://doi.org/10.1007/978-3-030-04675-0_4</p>
<p>+ Administrative Responsibilities:</p> <ul style="list-style-type: none"> • EMS Coordinator of Department since June 2014 to 2020 • Time Table Coordinator of Department • Member of BOS
<p>+ Professional Affiliation:</p> <ul style="list-style-type: none"> • Life member of Association of Microbiologists of India(AMI)
<p>+ Expert Talk Delivered:</p> <ul style="list-style-type: none"> • Delivered Talk at Mizoram University, Aizwal on PGPR for zinc fortification in Fodder

Crops May 2017

- Resource Faculty in the Hands-on Workshop on “ Salivary Genomics” organized by Departments of Oral and maxillofacial pathology and Oral Medicine & Radiology, MRDC in association with Department of Biotechnology, FET on 13th and 14th May, 2014

+ Awards:

- **Best poster presentation award** in 4th National Conference on Plant Promoting Rhizobacteria for Sustainability of Agriculture and Environment, May 11-12, 2018 held at Mizoram University, Aizawl (India).
- Mentor of **winning team** in “Science Conclave-2014” on 16th and 17th April, 2014 sponsored by Department of Science and Technology, Haryana, at YMCA University of Science and Technology, Faridabad.
- **Best poster presentation award** in 43rd Annual Conference of AMI, Dec 11-13, 2002 held at CCS HAU Hisar (India).
- **ASRB- NET** qualified in Microbiology.
- Awarded university **merit stipend** during post graduation.