

Dr. Vandana Sharma

Assistant Professor
 Department of Food Science
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Areas of Interest

- Microbiology
- Genetics
- Waste Management
- Mushroom Cultivation
- Food Science

Educational details

Degree	Year	University	Percentage	Medals/ Positions
Ph.D	2000	Panjab University, Chandigarh	Awarded Degree	-
M.Sc (Hons.)	1992	Panjab University, Chandigarh	62	-
B.Sc. (Hons.)	1990	Panjab University, Chandigarh	55	-
Pre-Medical	1987	Panjab University, Chandigarh	71	-
Matric	1985	PSEB	80	Merit

Professional Details

Designation	From	To	Organization
Guest Faculty (Course- B.E. Food Technology)	2000	2008	Panjab University, Chandigarh
Assistant Professor	2008	Till date	MCM DAV College for Women, Chandigarh

Awards & Recognitions

Award	Institute	Year
Nominated as a Member of Technical Advisory Committee for Climate and Health, National Vector Borne Disease Control Programme, UT, Chandigarh	Chandigarh State Climate and Health Committee, National Vector Borne Disease Control Programme, UT, Chandigarh	2017
AWARDED Summer Research Fellowship	Science Academies' Summer Research Fellowship Programme sponsored by INSA, IASC and NASI, GOI.	2017
Awarded certificate of gratitude for installing biogas plant with integrated Compost pits to manage solid food waste of the hostel mess and green waste in the campus.	Mehr Chand Mahajan DAV College for Women, Chd.	2018
Awarded All-India third rank in the 'Best Citizen-Led Innovations' category during the Swachh Survekshan Awards-2019, given as a recognition of waste management initiative of optimization and cultivation of	Ministry of Housing and Urban affairs, Government of India	2019

oyster mushrooms from agricultural and kitchen waste in used plastic bottles.		
Honored with an award on 26 January, 2019 for implementing best solid waste management practices in the college.	MC, Chandigarh	2019
Recognized as Coordinator and Resource Person of National DBT-CTEP Biotechnology Popularization Programme, under the aegis of DBT, GOI	DBT, Govt. of India	2019
Awarded certificate of gratitude for successfully conducting Open Defecation Free (ODF) drives in two villages [Butrella & Bhadheri]; Swatchhta Action Plan-2019 under the aegis of MHRD, Government of India to implement effective Solid and Liquid Waste Management activities and making the rural areas-Open Defecation Free (ODF), clean and sanitized.	Mehr Chand Mahajan DAV College for Women, Chd.	2019
Recognized for successfully attending and qualifying 17 IIC online sessions conducted by IIC of MHRD's Innovation cell from 28 th April to 22 nd May, 2020.	MHRD's Innovation Cell, Govt. of India	2020
Awarded certificate of gratitude for initiating an UGC approved skill based Diploma course in 'Microbial Analysis and Food Safety' in the department.	Mehr Chand Mahajan DAV College for Women, Chd.	2020
Awarded certificate of gratitude for installing 50K In-house Sewage Treatment Plant in the campus.	Mehr Chand Mahajan DAV College for Women, Chd.	2020
Recognized Innovation Ambassador by MHRD's Innovation Cell and AICTE, New Delhi to promote Innovation, IPR, Entrepreneurship and Start up among HEI's.	MOE's Innovation Cell, Govt. of India	2021
Qualified and Nominated as Certified Master Trainer for training and capacity building of beneficiaries under the PM Formalization of Micro food Processing Enterprises Scheme (PM FME Scheme), MOFPI, Govt. of India.	PM Formalization of Micro food Processing Enterprises Scheme (PM FME Scheme), MOFPI, Govt. of India.	2021
Awarded with National level recognition from Mahatma Gandhi National Council of Rural Education (MGNCRE), Ministry of Education, Government of India for valuable services to COVID-19 patients under EACH ONE REACH ONE; BEAT COVID CAMPAIGN-2021.	MGNCRE, Ministry of Education, Government of India	2021

Awarded with National level Recognition for successfully conducting and coordinating the Swachhta Action Plan Activities (SAP) 2021-22 and Step up! Conserve Water on Campus by MGNCRE, Ministry of Education, GOI.	MGNCRE, Ministry of Education, Government of India	2021
Awarded with National level Recognition for successfully conducting and coordinating the Gandhi Chhadi-Phase I for Waste segregation by Mahatma Gandhi National Council of Rural Education (MGNCRE), Ministry of Education, Government of India.	MGNCRE, Ministry of Education, Government of India	2021
Received National level Appreciation Letter for work done by you in the areas of Sanitation, Hygiene, Waste Management, Water Management, Energy Management and Greenery Management from MGNCRE, Ministry of Education, Govt of India.	Mahatma Gandhi National Council of Rural Education, Ministry of Education, Government of India	2022
National level certificate of recognition as Nodal Officer for carrying out the environment awareness activity' Selfie with plant' on the occasion of World Environment Day conferred by Mahatma Gandhi National Council of Rural Education (MGNCRE), Ministry of Education, Government of India.	Mahatma Gandhi National Council of Rural Education, Ministry of Education, Government of India	2022
Received National level Appreciation Letter for work done as Nodal Officer for Successfully completing 3 day training under VENTEL on Video Editing and Digital Marketing from MGNCRE, Ministry of Education, Govt of India.	Mahatma Gandhi National Council of Rural Education, Ministry of Education, Government of India	2022
Awarded certificate of Appreciation for contributing to the celebrations of World Environment Day as Faculty Coordintaor on conducting and completing the Green activities in college campus.	Mahatma Gandhi National Council of Rural Education, Ministry of Education, Government of India	2022
Nominated for the REDC/SESREC Rural Internship Programme 2022-2023 under Mahatma Gandhi Rural Internship Programme Govt. of India for carrying out field interactions/workshops for a period of one month from 15.09.2022 in Chandigarh District.	Mahatma Gandhi National Council of Rural Education, Ministry of Education, Government of India	2022

Research Publications

Title	Journal	Refereed	Date and Year of Publication	Online Link

Cultivation of Oyster Mushroom (Pleurotus ostreatus) from Agro-waste and Dry Leaf Litter in used Plastic Bottles: Community Waste Management Model Targeting Stubble and Dry Leaf Burning.	J Pure Applied Microbiology	Refereed (Scopus Indexed)	2021	https://microbiologyjournal.org/cultivation-of-oyster-mushroom-pleurotus-ostreatus-from-agro-waste-and-dry-leaf-litter-in-used-plastic-bottles-community-waste-management-model-targeting-stubble-and-dr
Nanotechnology based Approaches in Phage Therapy: Overcoming the Pharmacological Barriers (I.F-5.8)	Frontiers in Pharmacology	Refereed (Scopus, Web of Science indexed)	2021	https://www.frontiersin.org/articles/10.3389/fphar.2021.699054/full
Effect of Pre-treatment on the Solid State Anaerobic Digestion of Willow Dust.	Studies in Indian Place Name	Refereed	2020	-
Solid State Anaerobic Acidogenesis of Willow Dust: Development of a Kinetic Model. (UGC approved). 40(3): 6803-6814.	Studies in Indian Place Name	Refereed	2020	-
The effect of probiotic intervention in ameliorating the altered central nervous system functions in neurological disorders: a Review (I.F-1.16, Citations-5)	The Open Microbiology Journal	Refereed (Scopus, Web of Science Indexed)	2020	https://www.researchgate.net/publication/339148628_The_Effect_of_Probiotic_Intervention_in_Ameliorating_the_Altered_Central_Nervous_System_Functions_in_Neurological_Disorders_A_Review
Effect of Lactation Age and Storage on the Antibacterial Potency of Human Breast Milk against Neonatal Pathogens.	Journal of Pure and Applied Microbiology	Refereed (Scopus Indexed)	January, 2018	https://microbiologyjournal.org/effect-of-lactation-age-and-storage-on-the-antibacterial-potency-of-human-breast-milk-against-neonatal-pathogens/#:~:text=The%20concentrations%20of%20total%20and,over%2
Anti-Biofilm Potential of Aqueous Eucalyptus Leaf Extract against Nosocomial Pathogens: <i>Staphylococcus</i> and <i>Pseudomonas aeruginosa</i> (Citations-4)	The Pharma Innovation	Refereed	October, 2018	https://www.thepharmajournal.com/archives/2018/vol7issue11/PartH/7-10-89-693.pdf
Probiotic pathogen interactions in intestinal diseases	Biospectrum	Peer-reviewed	March 2012	-

Books Published			
Title	Publisher	ISBN	Year of Publication
Book Chapter titled “Prophylactic and Therapeutic Role of Human Breast Milk Proteins and Bioactive Peptides against Neonatal Bacterial Infections” published in Book ‘Breastfeeding and Formula Feeding Infants’	Intech Open	978-1-83962-721-7	2022
Book Chapter titled “Consumer Acceptance to commercial applications of packaging edibles” published in book ‘Edible Food Packaging’	Springer, Singapore	ISBN:978-981- 16-238	2021
Book chapter titled, “Microbiology as Gen Next Career: Exploring Employability & Scientific Entrepreneurship” published in “Entrepreneurship and Employability: Technical Perspectives”	National Press Associates	978-93-85835-62-9	2018
Research Projects			
Title	Funding Organization	Year	Status
Awarded Research Project “Pilot Study to Restore and protect Nagar van habitat using Mycoremediation and Microfiltration Practices”	DST (Department of Science and Technology and Renewable Energy, Chandigarh Administration), [(No S&T&RE/RP/ 147/e-2873(19-20)/Sanc/03/2020/5324-5331]	2020	Completed
Awarded Research Project titled, “Biosensor Based Kitfor Rapid Detection of <i>Enterobacteriaceae</i> in Drinking Water”).	Department of Science and Technology and Renewable Energy, Chandigarh Administration (S&T&RE/RP/147(18-19	2018	Completed

Research based study in collaboration with National Vector Borne Disease Control Programme, UT, Chandigarh, on Framing Malaria Elimination Strategy for Chandigarh.	National Vector Borne Disease Control Programme, UT, Chandigarh	2017	Completed
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Miscellaneous

- Member of the Postgraduate Board of Studies in M.Sc. Environment Science and Solid Waste Management, Panjab University, Chandigarh (2019-2021).
- Member of the Board of Studies in Microbiology, Panjab University, Chandigarh (2011-2019).
- Life member of Association of Microbiologists of India (AMI).
- Life Member and Coordinator of Chandigarh Unit of Microbiologists Society, India (LM301).
- Executive member of Association of Microbiologists of India (AMI)
- Life member of Punjab Academy of Sciences