

Dr. Vandana Sharma

Assistant Professor
Department of Food Science

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Areas of Interest

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

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
• Honored with an award on 26 January, 2019 for implementing best solid waste management practices in the college.	MC, Chandigarh	2019

Research Publications

Title	Journal	Refereed	Date and Year of Publication	Online Link
Effect of Lactation Age and Storage on the Antibacterial Potency of Human Breast Milk against Neonatal Pathogens.	Journal of Pure and Applied Microbiology	Refereed	September, 2018	https://microbiologyjournal.org/wp-content/uploads/2018/10/JPAM_Vol_018/10/JPAM_Vol_12_No3_p_1307-

				1314.pdf
Anti-Biofilm Potential of Aqueous Eucalyptus Leaf Extract against Nosocomial Pathogens: <i>Staphylococcus and Pseudomonas aeruginosa</i>	The Pharma Innovation	Refereed	October, 2018	http://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, "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 titled, "Biosensor Based Kit for Rapid Detection of <i>Enterobacteriaceae</i> in Drinking Water"(S&T&RE/RP/147(18-19).	Department of Science and Technology and Renewable Energy, Chandigarh Administration	2018	Ongoing

Miscellaneous

- Nominated as a member of the Undergraduate Board of Studies in Microbiology (2011-19).
- Executive member of Association of Microbiologists of India (AMI)
- Life member of Punjab Academy of Sciences
- Paper presented on " Skill Development Initiatives at Nontechnical Institutions of Higher Education: A Case Study of MCMDAV College, Chandigarh" at 2 days International Conference on 'Skilling for Self Employment" jointly organized by Colombo Plan Staff College, Manila, Philippines and National Institute of Technical Teachers Training and Research, Chandigarh on 21-22 February, 2019.
- Prepared two students of B.Sc III MFT for paper presentation in a 2 days International Conference on 'Skilling for Self Employment" jointly organized by Colombo Plan Staff College, Manila, Philippines and National Institute of Technical Teachers Training and Research, Chandigarh on 21-22 February, 2019.
- Prepared 14 students of B.Sc III MFT for presenting their research work in Microcon and

Punjab Start-up Fest 2019, National Conference on Microbial Biotechnology held at Panjab University, Chandigarh on 06 March, 2019 to 08 March, 2019.

- Prepared 4 students of B.Sc III MFT for presenting their research work in National Conference titled 'Cutting Edge Research & Innovation in Biotechnology & Other Life Sciences' at Chandigarh Group of Colleges (CGC), Landran, Punjab on 4th April, 2019.
- Organized Hands on Training Workshop on "Cultivation of Oyster Mushroom *Pleurotus* spp.) in bags and plastic bottles using Agri-Kitchen waste for 47 participants from BSc.(Medical), MCM DAV College, SD College, Chandigarh, Post-graduate College for Girls, Sector-11 on 13th and 14th March 2019.
- Prepared 6 students of B.Sc II MFT for participation in Innovation Idea competition organized under the aegis of MHRD by Institution's Innovative Council (IIC) on 29.3.2019 at MCM DAV College, Chandigarh. The innovative ideas of 4 students were selected for the next level.
- Coordinator-cum-organizer of Industry Academia Interface Series under the aegis of DAV College Managing Committee, New Delhi, to Foster Skills of Future Microbiologist and Food Technologists from 29th January 2019 to 9th March 2019.
- Organized Yakult for B.Sc III MFT students 09th Feb 2019.
- Organized Bonn visit for B.Sc II MFT students on 16th February, 2019.
- Prepared six students of B.Sc MFT 3rd year for National level championship for Science that was conducted at IIT, Kharagpur on 27-28 Oct, 2018 and 2 students secured third position at "National Level Championship (MakeIntern and Ecell IIT Kharagpur) Event".
- Organized Visit to Effluent Treatment and Waste Water Treatment Plant at Sec-31, 3BRD, Chandigarh on 17.11.18 for B.Sc MFT and Medical students to familiarize the students with the actual procedure involved in municipal waste water treatment.
- Prepared 10 Students of B.Sc 3rd Year for presenting their Microbiology related Research work at "National Symposium on Waste Management" organized by Association of Microbiologists of India (AMI), Chandigarh Unit at DAV College, Sector-10, Chandigarh on 03rd October, 2018. Two students Chhavi Dhiman and Gursimran Kaur awarded third position for their best poster.
- Participated in National Science Teachers Congress (along with organizing partner institutions like Vigyan Prasar (DST), CERT (MHRD) and Vijnana Bharati- an voluntary science movement lead by eminent scientists) at the 4th India International Science Festival (IISF 2018) at Lucknow from 5th-8th October 2018.
- Paper presented titled, "Microbiology as Gen Next Career: Exploring Employability & Scientific Entrepreneurship" in 2nd International Multistream Conference on "Futuristic Approach towards Employability and Entrepreneurship & Industrial Summit" organized by GGNIM&T, Ludhiana in association with CICU and JCI on 27-28 October, 2018.
- Paper presented titled, "Seeking Quality in Higher Education" in Indian National Seminar on "Academic and Administrative Audit in Higher Education" Institutions organized by DAV College Jalandhar in January 2018.
- Paper presented titled, "Gut Ecosystem Interactions for a Healthy Mind" at International Conference on "Soul in Symphony: Spiritual and Pragmatic Aspects of Happiness" in January 2018.
- Awarded certificate of appreciation in acknowledgment of chairing a session in International conference "Soul in Symphony: Spiritual and Pragmatic Aspects of Happiness" organized by MCMDAV College for Women, Chandigarh in January 2018.
- Published a paper titled, 'Climate Change and Resurgence of Chickungunya in India: A

Review”, in Proceedings of International Conference on Advancements in Science and Technology, ICAST-2017, McGraw Hill Publications, (ISBN(13): 978-93-5260-650-4). 2017; 155-157.

- Invited as Resource Person in 2nd National Conference on “Biotechnology Academic Industrial Interface” organized by Department of Biotechnology, CGC Landran, and AMI, Chandigarh in September 2017
- MFT 3rd yr. students (12) mentored for poster presentation in National Conference on “Biotechnology Academic Industrial Interface” organized by Department of Biotechnology, CGC Landran and AMI, Chandigarh in September 2017.
- Invited as Resource Person at 7 days NSS camp from 29 Sept. to 5 Oct. 2017.
- Organized industrial visit to Mrs Bector’s Cremica Food Specialties Limited in November 2017.
- Conducted practical examination of B.Sc. Biotechnology in Chandigarh College of Technology, Mohali in December 2017.
- Attended 7 day FDP on “ ICT- New dimensions in research and higher education” from 26 Nov. to 2 Dec.,2016.
- Participated in the “STEM Teacher Training Workshop on Research Based Pedagogical Tools” workshop held from 23-25 Jan., 2017 at the Indian Institute of Science Education and Research, Mohali, jointly sponsored by DBT, Govt. of India, Newton Bhabha Fund of the British Council and IISER Pune.
- Nominated as member of Chandigarh State Technical Advisory Committee for climate and health on 3.3.17.
- Awarded Research project sponsored by National Vector Born Disease Control programme, UT-Chandigarh for conducting a research based case study titled, “Microbiological Analysis of Natural Breeding Habitat of N-Choe” on May, 2017 with a Funding of Rs.34,217/- (duration- Jan. 2017-May2017).
- Attended a 7-day Faculty Development Programme on “Capacity Building and Skill Enhancement in Higher Education” from 26th Feb.- 3rd March,2016.
- Organized Rashtriya Uchchatar Shiksha Abhiyan and AMI, Chd. Unit sponsored National workshop as organizing secretary on “Fermentation Technology for the production of value added products” on 5th –7th March, 2016.
- Conducted practical examination of M.Sc. Microbiology students in Bhojia Institute of Life Sciences, Baddi in July, 2016.
- Organized National Symposium on “Nanobiotechnology And Microbial Technology For Advancements In Industry And Medicine” Jointly Organized By: Department Of Biotechnology Chandigarh College Of Technology Cgc Campus- Mohali, & Association Of Microbiologists of India (Ami), Chd Unit as member of organizing committee in Aug.,2016.
- Paper presented titled’Genetically modified probiotic bacteria- boon or bane’ in National Symposium on “Nanobiotechnology And Microbial Technology For Advancements In Industry And Medicine” Jointly Organized By: Department Of Biotechnology Chandigarh College of Technology Cgc Campus- Mohali, & Association Of Microbiologists of India (Ami), Chd Unit as member of organizing committee in Aug.,2016.
- Co-convener of UGC and INSA sponsored two days National Seminar on “Animal Diseases: Impact on Human Health and Control Issues” jointly organized by Dpर्टment of Zoology and Food Science on 30th and 31st Aug,2016.
- Awarded Research Fellowship to work on Project entitled “Studies on Geomaterial- Microbe

Interactions” in IIT, Bombay, jointly sponsored by INSA, IASc and NASI.

- Conducted one day Faculty Development Programme (FDP) jointly organized by SD College, Chandigarh and AMI Chd. Unit as member of organizing committee in Sept.,2016.
- Invited as resource person for delivering lecture on “Global antibiotic resistance” at 7 days NSS camp from 9 -15 Oct.,2016.
- Organized 4 days “In- house- Hands-on-Training” workshop in MCMDAV College for Women, Chandigarh from 19 -22 May, 2015.
- Conducted practical examination of B.Sc. and M.Sc. Biotechnology in Chandigarh College of Technology, Mohali on May, 2015.
- Conducted practical examination of B.Sc. and M.Sc. Microbiology in Bhojia Institute of Life Sciences, Baddi on July, 2015.
- Awarded certificate of appreciation in acknowledgement of chairing a session in National conference “ Emerging Challenges in Biotechnology” organized by Chandigarh Group of Colleges, Mohali on Aug., 2015.
- Awarded certificate of merit for conducting a session in 7 days NSS camp from 21.10. 15 to 27.10.15.
- “Antagonistic and Plant Growth Promoting Potential of Indigenous Bacteria” paper published in Proceedings of International conference “ Recent advances in emerging technologies ICRAET- 2016”(ISBN-978-81-929890-1-3) organized by SGGS World University, Fatehgarh Sahib on Feb.,23-24, 2016, 235-244.
- Participated in 8 days “Hands on Workshop in Applied Biotechnology” organized by Department of Biotechnology and Bioinformatics, DAV College, Sector 10, Chd. from 21-28 Feb., 2015.
- Awarded certificate of appreciation for being part of organizing committee in “Research Scholars Convention- 2K15” held on March, 2015 at Panjab university, Chandigarh.
- Sharma V. Recent advances in the soy based food products to improve health benefits. New Horizons- a Research Journal (ISSN 2277-5218). 2014; (XI), 38-47.
- Paper presented in International Conference on "Emerging Food Safety Risks: Challenges for Developing countries" organized by National Institute of Food Technology Entrepreneurship and Management, Sonapat, held on January 09-11, 2014.
- Workshop attended on ‘Food Safety & Quality’ organized by National Institute of Food Technology Entrepreneurship and Management, Sonapat, on January 11, 2014.
- “Role of Intellectual Property Rights In Drug Design And Development” paper presented in the National Conference on Intellectual property rights and its importance in research, design and development, organized by Govt. post graduate college for girls Sector-42, Chandigarh on Jan 31,2012.
- “Probiotic pathogen interactions in intestinal diseases” paper presented in the National Seminar on Biotechnology revolution-its socio-economic impact, organized by Govt. post graduate college for girls Sector-42, Chandigarh on Feb 22,2012.
- Sharma V. Probiotic pathogen interactions in intestinal diseases. Journal article published in Biospectrum (ISSN 0972-8023), 2012; 12(1-2), 103-9.
- Organized MOFPI sponsored National Seminar on “Emerging trends in Food Science and Technology” in MCMDAV College for Women, Sec-36, Chandigarh on Nov.12,2011.