

INSTITUTE OF HOME ECONOMICS

UNIVERSITY OF DELHI



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E-mail	arti.nigam@ihe.du.ac.in		
Educational Qualifications: M.Sc. (Biotechnology) JNU, PhD (Microbiology) University of Delhi			
Teaching experience: 28 years			
Subjects/Papers Taught : Industrial Microbiology, Recombinant DNA Technology, Microbial Biotechnology, Cell biology, Instrumentation, Diagnostics, Biofertilizers, Applied Food Microbiology and Microbial Ecology			
Awards received : JRF & SRF from UGC Post Graduate Merit Scholarship from DBT			
Research Interest/Specialization : Industrial Microbiology, Microbial Biotechnology, Enzymes, Diagnostics, Biofertilizers and Probiotics			
ORCID No. 000-0002-0642-7932			
Research Projects			
Title		Funding agency/organization	Duration of Project
Evaluation of microbiologic vermicompos types of waste Sanctioned gr	chemical and cal quality of the t prepared from different es using <i>Eisenia foetida</i> . ant 6.52 lakhs	UGC Major Project	3 Years (2008-2011)
Evaluation of r Fermented foo novel probiotio properties. Pro Sanctioned gr	microbial flora of Indian ds for the development of cs having antioxidant ject code :304 ant 4.6 lakhs	DU Innovation Project	1 Year (2015-2016)

Research papers since 2010

1.Aggarwal, S., Sen, A., Rastogi A. and **Nigam A**. (2021) Evaluation of the probiotic potential of yeasts isolated from Indian fermented food items. Research Journal of Biotechnology .16 (10): 33-42 .https://worldresearchersassociations.com/biotechcurrissue/6.pdf

2.Vachher, M., Sen, A., Kapila, R. and **Nigam, A**. (2021) Microbial therapeutic enzymes: A promising area of biopharmaceuticals. Current Research in Biotechnology. 3: 195-208 <u>https://doi.org/10.1016/j.crbiot.2021.05.0063</u>.

3.Vachher, M., Sen, A., Burman, A. and **Nigam, A**. (2021) Bacterial enzymes as diagnostic tools for various human pathogens. Journal of Scientific Research. 65(5): 105-115. <u>https://www.bhu.ac.in/research_pub/jsr/Current%20Issue.html</u>

4. Singh, T., **Nigam, A.** and Kapila, R. (2021). Innovations in Silkworm Rearing and Importance: Recent Advances. Journal of the Textile Association. 82(2): 87-90.

5. Sharma C, Nigam, A. and Singh R. (2021) Computational-approach understanding the structure-function prophecy of Fibrinolytic Protease RFEA1 from *Bacillus cereus* RSA1. *PeerJ* 9:e11570 <u>https://doi.org/10.7717/peerj.11570</u>

<u>6</u>. Sen, A., Kapila, R., Chaudhary, S. and **Nigam, A.** (2021) Journal of the Textile Association. volume 81(6) :312-318 Biotechnological Applications of Microbial Enzymes to Replace Chemicals in the Textile Industry- A Review. Journal of the Textile Association. volume 82(6)

https://issuu.com/textileasociationindia/docs/e-journal_-_jul-aug_21

7. Kapila, R., Verma, G., Sen, A. and **Nigam, A.** (2021). Compositional Evaluation of Vermicompost Prepared from Different Types of Organic Wastes using *Eisenia fetida* and Studying its Effect on Crop Growth. Indian Journal of Agricultural Research.

DOI: 10.18805/IJARe. A 5708. https://arccjournals.com/journal/indian-journal-of-agricultural-research/A-5708

8. Kapila, R., Verma, G., Sen, A., **Nigam, A.** (2021). Evaluation of Microbiological Quality of Vermicompost Prepared from Different Types of Organic Wastes using *Eisenia fetida*. Agricultural Science Digest. DOI: 10.18805/ag.D-5275.

https://arccjournals.com/journal/agricultural-science-digest/D-5275

9. Sen, A., Oswalia, J., **Nigam, A**. (2021). Biodegradation of Synthetic Dyes in Effluents by Immobilised Microbial Cells and Enzymes. Journal of the Textile Association. volume 81(6) :312-318

https://issuu.com/textileasociationindia/docs/e-journal_-_mar-apr_21

10.Chaudhary, S & **Nigam, A.** (2020). Antimicrobial Fabrics: An innovation In Textile Technology. Journal of the Textile Association. volume 81(4):204-2010

 $https://issuu.com/textileasociationindia/docs/e-journal_-_nov-dec_20$

11. Keshan P, Rastogi A, Aggarwal S, **Nigam A**, Kapila R, Syed S.(2020) Effect of one-day training on Knowledge related to Biosafety and waste management among life-science Students .Indian J Comm Health.32(4):694-698.

Doi https://doi.org/10.47203/IJCH.2020.v32i04.014

12.Gupta,S.,**Nigam**, A , Singh, R. (2015).Purification and characterization of a *Bacillus subtilis* keratinase and its prospective application in feed industry. Acta Biologica Szegediensis 59(2):197-204

13. Singh, R., **Nigam, A**., Verma, G., Kapila, R. (2013). Vermicomposting- A technology for waste management and recyclingand its relevance to horticulture. International Journal of Innovative Horticulture. 2(1):44-51

Books published/edited

Book Authored as First Author

Lab Manual in Biochemistry, Immunology and Biotechnology 2007, First Reprint 2008, Second reprint 2009 Lab Manual in Biochemistry, Immunology and Biotechnology ISBN-13:978-0-07-0617674 Published by International publishing company : Tata McGraw Hills

Association with Professional Societies Life Member Association of Microbiologists of India Life Member Microbiologists Society of India

Any other **Research Guidance Ph.D. guidance** Amity Institute of Microbial Biotechnology Co-Guide for Ph.D. in Microbial Biotechnology

Sonali Gupta 2011- 2015 Bacterial Keratinase : Production ,Purification and its properties https://shodhganga.inflibnet.ac.in/handle/10603/18839

Chhavi Sharma. 2017-2021 Production, Purification and Molecular Characterization of Fibrinolytic Protease from *Bacillus sp.* Thesis Submitted.

Reeta Bhati 2017-2021 Isolation ,Characterization and Application of Arsenic Resistant Bacteria in Bioremediation. Ongoing

M.Sc Dissertations : 4

Academic expert at Amity Institute of Microbial Biotechnology Editorial Board Member : European Journal of Sciences Scientific European (SCIEU) College committee member (2021): IQAC ,Admission, Academic, Covid Task Force, Examination, Building committee. Teacher incharge