

Prof. Kavita Vasdev



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EDUCATION

Ph.D.(Microbiology)

Department of Microbiology, University of Delhi (1995)

MSc (Biotechnology) Jawaharlal Nehru University, New Delhi . (1990)

BSc (Hons) Botany, Gargi College, University of Delhi (1988)

Employment

Joined Gargi College as assistant Professor 17/7/1995

EXPERIENCE

Teaching : 28 years

Research : 15 years

GRANTS AND FELLOWSHIPS—

Awarded **Major Research project** (worth **Rs. 10.86 lacs**) by **UGC 2008**, which was successfully **completed in 2011**, with 3 International research publications.

Awarded **Interdisciplinary Innovation project, GC-101** (worth **Rs. 10 Lacs**) on **Nanotechnology** in **2012-2013**, by Delhi University.

22 Research Publications in International Journals

LIST OF PUBLICATIONS

1. Aeshna.Gupta, Disha Gangotia, **Kavita Vasdev** and Indra Mani(2022)- In silicoDNA codon optimization of the variant encoding antigen genes of diverse strains of nipah virus. Indian journal of Biotechnology and pharmaceutical research vol.10(1) :1-16
2. **Kavita Vasdev** & Jyoti Oswalia(2021) Herpes Zoster - From Infection To Vaccine Development. International Journal of Biotechnology and Bioengineering Volume 7 Issue 4,

3. Oswalia J and Vasdev **K** (2021) –Emerging and reemerging infectitious diseases- past present and beyond. *MOJ.Biol. Med* 6(1):5-8
4. Kriti Tyagi and **Kavita Vasdev** (2020) The SCIENCE OF THE MIGHTY ‘SMALL’: NANOBIO TECHNOLOGY IN HUMAN WELL BEING *International Journal of Bio-Technology and Research (IJBTR)* Vol. 10, Issue 1, Jun 2020, 41–48
5. **Kavita Vasdev** and Sonali Sengupta(2020) Proteomics: Applications in disease diagnosis to develop precision medicine. **Bioinformatics and proteomics open access journal**, vol4(1) :000129
6. Kavita Vasdev(2018) White-rot fungi and their enzymes in development of industrial effluent treatment systems. **International Journal of Applied Science and Environmental Engineering** Vol.1, Issue 1,400-405.
7. Indra Mani and **Kavita Vasdev** (2018) MicroRNA’s in Prognosis diagnosis and therapy of Cancer. *Cell Cellular and life Sci. J.*3(3):000134
8. Sakshi Dewasthale, Indra Mani and **Kavita Vasdev** (2018). Microbial biofilm: Current challenges in health care industry. *Journal of Appiled Biotechnology and Bioengineering . Vol 5(3) , 156-160.*
9. Mani I, **Kavita V** (2018) Current developments and potential applications of biosensor technology. *International Journal of Biosensor and Bioelectronics. Vol 9(2) 253.*
10. Gunjan Dhawan, Indra Mani, and **Kavita Vasdev** (2018) Epigenetic Remodeling of Delta FosB Protein: Its Role in Regulation of Stress. *Cell & Cellular Life Sciences Journal.* 3(1);1-9.
11. Verma D, **Vasdev K** (2018) Understanding The Potential of The Human Microbiome. *J Sys Biol Res* 1(1): dx.doi.org/10.16966/ jsbr.103
12. Kavita **V** (2017) DNA Biosensors-A Review. *J Bioengineer & Biomedical Sci* 7: 222. doi:10.4172/2155-9538.1000222
13. **Vasdev Kavita** et al. (2017), CRISPR/Cas-9 System Magnificent Tool for Genome Editing. *Int J Biotech & Bioeng* 3:9, 293-297
14. Mani I, **Kavita V** (2017) Toll-Like Receptor 11: Role in Post-Transplantation Renal Infections. *Single Cell Biol* 6:164. doi:10.4172/2168-9431.1000164
15. **Vasdev K** (2015) Development of Industrial Effluent Treatment System Using White-Rot Fungi, Isolated from Nature and their Enzymes. *J Bioengineer & Biomedical Sci* 6: 175. doi:10.4172/2155-9538.1000175
16. **Kavita Vasdev** (2013) Decolorization of Synthetic dyes by white-rot fungi. 4th World Congress on Biotechnology ORGANISED BY OMICS GROUP, LOS Angeles,USA. September 23-25, 2013 Raleigh-North Carolina, USA Published in *Journal of Biotechnology and Biomaterials*, September 2013:vol3:issue3:46.
17. **Kavita Vasdev** (2011) Decolorization of triphenylmethane dyes by six white-rot fungi isolated from nature. *Journal of bioremediation and biodegrade* 2;128.doi:10.4172/2155-6199.1000128
18. **Kavita Vasdev**, Shikha Dhawan, Rajeev Kapoor and R.C.Kuhad (2005) Biochemical charecterization and molecular evidence of laccase from *Cyathus bulleri*. *Fungal Genetics and Biology.* Vol 42:684-693.
19. **Vasdev K.** et. al. (1995) Decolorization of Triphenylmethane dyes by Bird's Nest fungus *Cyathus bulleri*. *Current Microbiology*; 39(4), 326-330.
20. **Vasdev K.** and Kuhad R.C. (1994a)-Decolorization of Poly R-478 by *Cyathus bulleri*. *Folia Microbiol.* Vol.39(1) 61-64

21. Vasdev K and Kuhad R.C.(1994b) Induction of laccase production in *Cyathus bulleri* under shaking and static culture conditions. *Folia Microbiol.* Vol. 39(4), 326-330.

1 Book chapter in book **Nanobiomaterials** Bloomsbury London

- R. Rubia, Yashika, Remy, Namrata, Rajeshwari, Indu-tucker Sidhwani, **Kavita Vasdev**, Mangala Joshi, Shubha M Gokhale and Vandna Luthra (2014) Synthesis, Characterization and Investigations of Antimicrobial Properties of Silver Nanoparticles Via Green Method Using Mulberry (*Morus Alba*L) Tree Leaves 149-154 ; published in book **Nanobiomaterials** Bloomsbury London.
- **2 Chapters** in book *Advances in Biosensors: Reviews Volume 3*, pp 223-272; S. Yurish (Ed.) International Frequency Sensor Association Publishing International, ISSN: 8409251256
- Saini, A., Yadav, S., **Vasdev, K** (2020) Enzyme Biosensors. *Advances in Biosensors: Reviews Volume 3*, pp 223-272; S. Yurish (Ed.) International Frequency Sensor Association Publishing International, ISSN: 8409251256
- Yadav, S., Saini, A., **Vasdev, K** (2020) Nanobiosensors. *Advances in Biosensors: Reviews Volume 3*, pp 273-333/S. Yurish (Ed.) International Frequency Sensor Association Publishing International, ISSN- 8409251256

CONFERENCES/SEMINARS/SYPOSIUM/WORKSHOP ATTENDED

- Participated in two day National conference on “**National Education Policy 2020: Perspectives, Challenges and Way Forward**”, organized by Gargi College. **Nov.3-4,2023**
- Attended **63rd Annual International AMI conference,** “**Microbial Technologies for Sustainable BIOSPHERE—MicrobioTech2023**” organized by M.D University , Rohtak , feb 2-4,2023.
- Presented Research paper entitled “ White-rot fungi and their enzymes for effluent treatment system “ at **International environmental biology conference held at Paris France** **June 28 2018**

PROFESSIONAL TRAINING PROGRAMME :

Attended 7-day Training programme on **BSL-3 Lab training and handling practices for Mycobacterium tuberculosis (19 July-25th July 21)**, Organized by Department of Biochemistry, University of Delhi South Campus

ACADEMIC ACHIEVEMENTS:

1)Restructured and redesigned the syllabii of B Sc. (Hons) Microbiology, University of Delhi in the year June, 2003 , 2013 and 2019 for papers on Biochemistry, Molecular biology, Microbial genetics, Recombinant DNA technology and Bioinformatics.

2)Redesigned syllabus of papers Biochemistry –I And Biochemistry –II , Molecular Biology –I and Molecular Biology-II for B Sc. (Hons) Microbiology, University of Delhi, NEP ,IN 2022.

Editor of peer reviewed International journals

1) **Biosensor and Bioelectronics**, open access journal, Gavin publishers.

2) **Nanotechnology and Nanomedicine** –another open access journal .

3) European journal of Sciences

4)Bioinformatics and proteomics open access journal

5)Single cell biology

Reviewer of peer reviewed International/ national Journals

1)Environmental Engineering and Management Journal

2) Bioremediation

3) Defence life science Journal

Professional Associations

- Member of American Society of Microbiology (ASM) since 2013.
- Life member Association of Microbiologists of India (AMI)

ADMINISTRATIVE ACTIVITIES

- **Deputy Superintendent Examination**, for Examinations, for both Regular and SOL examinations Dec23-Jan24conducted by University of Delhi
- Screening committee member for Selection of applicants for appointment of Assistant professors, in DU. May-june 2023.
- **Head of the Department of Microbiology**, Gargi College. (1997-1999, 2007-2009, 2017-2019).
- Member of Faculty of Interdisciplinary and Applied Sciences, University of Delhi South Campus from 2012 to 2013.
- **Member of various committees (Admission- 1997-99, 2001-2003, 2007-2009, 2013-2014; 2016-2017, 2017-2018)**
- **Attendance committee -1999-2005; Sports committee-1997-2006)** of Gargi College.
- Member of **Selection committee for appointment of Non-Teaching staff** of Gargi College in 2007.
- **Proctor** of the college, from **2006 to 2010**.

Languages known

Hindi and English

Skills— Skilled in Techniques of Biochemistry, Molecular biology, Recombinant DNA technology, Bioinformatics.

Sports---Good player of Badminton, table-tennis.