

Post-doctoral Research Scholar
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Date of Birth: October 08, 1987

Education:

- **Ph.D. (Biotechnology):** December 2021 DBT-Institute of Life Science; Degree awarded by Utkal University, Bhubaneswar.
Thesis title: Studies on the biofilm matrix of *V. cholerae*.
Mentor: Prof. Durg Vijai Singh
- **Master of Technology (Biotechnology):** August 2013, Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal
- **Masters of Science (Biotechnology):** June, 2011 RTM, University, Nagpur
- **Bachelors of Science (Biotechnology):** July, 2009 RTM, University, Nagpur

Research Experiences:

- Post-Doctoral Research Scholar Aug 2021-present, Indiana University Northwest, Indiana USA
- Project Coordinator in Genome surveillance COVID-19, 2021: DBT-Institute of Life Sciences, Bhubaneswar
- Graduate sciences: Senior Research Fellow (S.R.F) 2014-2020: DBT-Institute of Life Sciences, Bhubaneswar
- Graduate sciences: Junior Research Fellow (J.R.F) 2016-2020: DBT-Institute of Life Sciences, Bhubaneswar
- Junior Research Fellow (J.R.F) March 2014- August 2014, MANIT, Bhopal

Research Skills and expertise:

- Extensive knowledge of genome editing, sequencing, Protein purification and antibody production, CRISPR-Cas9
- Experience in **Epitope based vaccine design, Reverse Vaccinology**
- **Real-time qPCR:** experience in running large-scale samples including 96-384 well plates.
- **Microscopy:** Expertise in co localization analysis, staining slides, and imaging using fluorescence /confocal microscopy.
- **Cell culture:** experience with handling adherent cell lines and ex-vivo cultures.
- Hands-on experience with handling **Mice and Rats**
- **Molecular techniques;** RNA (trizol/kits)/ DNA isolation, cDNA preparation. ELISA,
- **Genomic studies:** experienced in NGS, Library preparation for NGS,
- Experience on various biophysical techniques for studies on inter molecular interactions like ITC. Mass spec, proteomics, OMVs isolation and characterization
- Experience on TEM and SEM, AFM, Molecular docking, Homology Modelling

List of publications:

- **Kanampalliwar A**, Singh DV (2020), Extracellular DNA build and interacts with vibrio polysaccharide in the biofilm matrix formed by *Vibrio cholerae*. Environmental Microbiology Report 12(5), 594–606
- **Kanampalliwar, A. & Singh, D. V.** (2020), Virulence Pattern and Genomic Diversity of *Vibrio cholerae* O1 and O139 Strains Isolated from Clinical and Environmental Sources in India. *Frontiers in Microbiology*, 11, 1838.
- A Ghosh, S Walia, R Rattan, **A Kanampalliwar** et al (2021) Genomic profiles of vaccine breakthrough SARS-CoV-2 strains from Odisha, India. *Int J Infect Dis.* 2022 Jun; 119: 111–113
- AK Pathak, GP Mishra, B Uppili, S walia , S Fatihi, **A Kanampalliwar** et al.(2022) Spatio temporal dynamics of intra-host variability in SARS-CoV-2 genomes, *Nucleic Acids Res* gkab1297.
- **Kanampalliwar AM**, Rajkumar S, Girdhar A, Archana T (2013), Reverse Vaccinology: Basics and Applications. *J Vaccines Vaccin* 4: 194
- **Kanampalliwar AM**, Rajkumar S, Girdhar A, Archana T (2013), Web Based Tools and Databases for Epitope Prediction and Analysis: A Contextual Review, *International Journal of Computational Bioinformatics and In Silico Modeling*, Vol. 2, No. 4: 180-185
- **Kanampalliwar AM**, Girdhar A, Arya R, Saxena R and Tiwari A: In silico epitope prediction and homology modeling of envelope surface Glycoprotein gp160, precursor region from Human Immuno Deficiency Virus-1. *Int J Pharm Sci Res* 2014; 5(7): 1000-24.
- Soni RK, **Kanampalliwar A**, Tiwari A (2013) Role of Reverse Transcriptase and APOBEC3G in Survival of Human Immune Deficiency Virus -1 Genome. *Virol Mycol* 3: 125
- A Girdhar, M Bhatia, S Nagpal, **A Kanampalliwar**, A Tiwari (2013), Process Parameters for Influencing Polyhydroxyalkanoate Producing Bacterial Factories: An Overview. *J Pet Environ Biotechnol* 4 (155),

Book Chapter

- **Kanampalliwar AM** (2020), Reverse vaccinology and its applications. Methods MolBio,2020, 2131:1-16

Fellowships and Awards:**Scientific meetings**

- 2022 Midwest Microbial Pathogenesis Conference, University of Wisconsin-Madison, USA
- Symposium on Emerging Trends in Biological Sciences Research, Bhubaneswar, India-2019
- International conference on Microscope XXXIX Annual meeting of Electron Microscope society of India, Bhubaneswar, India-2018
- 58th Annual Conference of Association of Microbiologist of India (AMI-2017), Lucknow, India-2017
- National symposium and Workshop on Advances in Proteomics, Bhubaneswar-2016
- Intercollegiate Competitive Events on Biotechnology, Bhopal, India-201
- National Congress: Innervate 2012, Wardha, India-2012
- National Conference on CME in Immunology, Nagpur, India-2010
- III State Level Seminar on Agricultural Biotechnology for Sustainable Productivity, Amravati, India-2010
- National Seminar – Innervate 2008 on Innovations in Basic Sciences in the Realm of Modern Education System, Wardha, India-2008
- Intercollegiate Seminar Competition, Nagpur, India-2007

Academics excellence

- GATE-2011
- ICAR-SRF-2014