

Avinash Tiwari

Vindhyavasni Enclave. Pawan puri, Devi kheda, Telebagh, Lucknow,226002

Contact No.: 07905471419, 09455302342

e-mail: avinash2098@gmail.com

Educational Qualification:

1. **M. Tech**, Biotechnology, 2019 Shri Ramswaroop Memorial University
 2. **B. Tech**, Biotechnology, 2016 Dr. Abdul Kalam Technical University
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Experience:

1. **Kuruom School of Advanced sciences foundation, Lucknow**, December-2022 – present: Research Assistant
 2. **ICAR- National Bureau of Fish Genetic Resources, Lucknow (Molecular Biology & Biotechnology Division)**, October, 2020 - October,2022: Young Professional-II
 3. **ICAR- National Bureau of Fish Genetic Resources, Lucknow (Molecular Biology & Biotechnology Division)**, June, 2019 - May 2020: Technical Assistant
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Skills:

1. **Molecular Biology**-Genomic DNA & plasmid isolation, RT-PCR, PCR, Sanger Sequencing, Nanopore sequencing, DNA Barcoding and other Molecular Techniques
2. **Bioinformatics**-Quality analysis, Genome analysis, Genome assembly, SNP mining and analysis, SNP annotation, various Linux and bioinformatics tools
3. **Cytology**- Microbial cell culture, Media formulation & optimization, Karyotyping
4. **Immunology**-Antimicrobial testing, ELISA
5. **Microscopy**- fluorescent microscopy, light microscopy

Publications:

1. Kushwaha, Basdeo, Dandadhar Sarma, Banasri Mech, Murali S. Kumar, Vishwamitra Singh Baisvar, **Avinash Tiwari**, Hrishikesh Choudhury, and Ravindra Kumar. "Exploring Fish Miscellany from Biodiversity Hotspot Region of Northeast India Through Chromosome Profiling." *Croatian Journal of Fisheries* 80, no. 4 (2022): 179-188.
 2. Ankita Srivastava, Pragya Singh, Niharika Chandra, Deepika Tiwari, Vanistha Shukla, **Avinash Tiwari** and Sunil Kumar. Role of Probiotics in Control of Gastrointestinal Diseases. *International Journal of Probiotics and Prebiotics Vol. 13, No. 2/3, pp. 55-68, 2018*
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Projects and Trainings:

1. DBT funded project "**National repository of fish cell lines in NBFGR (phase II) and access center in C. Abdul Hakeem college and research on application of cell lines in virology, toxicology and gene expression studies**".
 2. M. Tech. project: "**Identification of Thalassemia Minor (trait) by Osmotic fragility Test and Mutation in Hemoglobinopathies**": Medical Genetics Department, Sanjay Gandhi Postgraduate Institute of Medical Sciences (SGPGIMS), Lucknow, U.P.
 3. B. Tech. project: "**Enhance the Production of Amylase from *Bacillus subtilis* by Using Physical Mutation (U.V.)**": MRD Life sciences, Lucknow, U.P.
 4. Training in Quality control department at **Uttar Pradesh Drug and Pharmaceuticals co. Ltd.**, Lucknow U.P.
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Honors/Awards:

1. M. Tech, Biotechnology Gold Medalist
2. 1st prize in oral presentation in national symposium on "medical health and sciences", topic "**Novel antimicrobial *saraca asoca* containing bamboo microfibers reinforced agarose hydrogel for wound healing application**" at Amity University, Lucknow, U.P.