

Ms. Aswathi A P

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Qualification

- Qualified ICAR AICE- JRF/SRF JUNE 2024 (AIR 19) and ICAR NET 2023
- MSc Microbiology from MG University Kottayam, October 2023 (9th position)
- BSc Microbiology from Kannur University, June 2021
- Higher Secondary, Kendriya Vidyalaya Payyannur, June 2018

Additional Qualification

- Completed Certificate course on Mushroom cultivation
- Training programme on principles and implementation of HACCP and GMP/ prerequisite programme

Seminars/ workshops

- Completed workshop on Advanced Microscopic Technique.
- Participated in the National seminar on " Microbiome- the unseen" Jointly organized by Sree Sankara College and CUSAT under American Society for Microbiology.
- Participated in IP Awareness/Training program under National Intellectual Property Awareness Mission.
- Participated on Biospectrum 2023 webinar on "Food Safety - current status and future needs"
- Organized by the department of microbiology Sree Sankara college, kalady.
- Attended Biospectrum 2022 International virtual seminar on "Techniques in Biological Research " Conducted by Sree Sankara College, Kalady.

Work skills

- Verbal and written Communication skill
- Laboratory Equipment handling
- Problem solving and Analytical skill
- Microscopy
- Efficient in molecular techniques like Cloning, Bacterial Transformation, PCR, Site-Directed mutagenesis, Sequencing, Gel Electrophoresis, Plasmid isolation
- Hands on training on RT-PCR for COVID-19
- Aseptic technique skill and Efficient in handling bacterial culture , fungal culture and viral samples
- Efficient in Media preparations and sterilization techniques
- Technology Integration ,Continual learner and Collaborative learning
- Out reach and Tutoring

Projects

1. Cloning and Characterization of SLC6A4 Mutant F465L

Performed at Inter University Centre for Biomedical Research and Super Speciality Hospital, Thalappady Kottayam under the guidance of Dr Usha Rajamma. The work is a part of a major

project which aims at providing personalized therapeutics for autistic patients. Serotonin is a neurotransmitter associated with well-being and happiness. Serotonin is transported with the help of Serotonin Transporter SLC6A4. Defective Serotonin transporter results in re-uptake of serotonin from the pre-synaptic neurons which results in disorders like Autism, Obsessive Compulsion Disorder (OCD), anxiety and depression. There are several medically identified SERT mutants like G56A, F465L, L550V. The work focuses at developing mutated Serotonin Transporter (SERT) mutant of F465L by Site-directed mutagenesis and other molecular techniques like PCR, Sequencing and Gel-Electrophoresis. The gene of interest is then Cloned by BP & LR Clonase reaction, Transformed to Competent *E.coli* cells and then Transfected to animal cell. Certain Anti-depressants (SSRI) are then tested for the effectiveness against the mutation studied, by this way personalized therapeutics can be employed to autistic patients.