

LIJI M J

Research Assistant
Cell and Molecular Biology Facility
Jubilee Centre for Medical research
Jubilee Mission Medical College & Research Institute
Thrissur 680005



Professional Profile

Postgraduate in Microbiology with work experience of more than 9 years of clinical research. Areas of competence include managing and carrying out projects, analyzing and interpreting data, and creating and using research tools and I would describe myself as a driven, resourceful individual who maintains a positive, proactive attitude in adversity. My long-term aim is to specialize in Molecular Genetics, especially in the fields of Cell Biology and Toxicology, Gene Expression and Regulation, and cancer Genetics.



Work Experience

Oct 2022
presently

Research Assistant

Cell and Molecular Biology Facility, Jubilee Centre for Medical Research, Jubilee Mission Medical College and Research Institute, Thrissur, Kerala

- Expertise experience in cell and molecular Biology techniques and took overall efficient management of laboratory.
- Participated and organized meetings, seminars, webinars during the project and assisted the training programs conducted in the center and helped the training students and faculties through their course time very well.

Aug 2019.
Sep 2022

Project Assistant

ICMR funded Research Project (ICMR-Adhoc/124/2019/HSR date 07.08.2019)

Jubilee Centre for Medical Research, Jubilee Mission Medical College and Research Institute, Thrissur, Kerala

- Achieved project goals and objectives through proactive management, quality planning and timely execution.
- Participated and organized meetings, seminars, webinars during the project and assisted the training programs conducted in the center and helped the training students and faculties through their course time very well.

Nov 2015
Mar2019

Research Assistant

Amala Cancer Research Centre, Amala Institute of Medical Sciences, Thrissur, Kerala

- Experience in animal cell and tissue culture techniques and routine techniques in Microbiology, biochemistry, and hematology.
- Expertise experience in Laboratory Animal Handling and completed short term industrial projects on novel drugs and pharmaceuticals in animal models with assistance in the preparation of project reports, manuscripts, and presentations& Participated and organized meetings, seminars, and symposiums.



Contact

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Strength

Project Management
Improvement planning
Documentation and control
Records management
Paperwork drafting



Software

Microsoft Office

Excellent



Languages

English

Excellent

Malayalam

Excellent



Research Experience

- Expertise experience in molecular biology techniques like Nucleic Acid Isolation and Quantitation, PCR & PCR-RFLP, Electrophoretic and Documentation techniques such as AGE, SDS- PAGE, Primer Designing and Sequence analysis, and Polymorphism studies.
- Hands-on experience in Peripheral Blood lymphocyte culture, CBMN Assay.
- Experience in routine techniques in Microbiology, biochemistry, and hematology (Colorimetric, Spectrophotometric and fluorescence techniques).
- Expertise experience in Laboratory Animal Handling (Swiss-Albino, Balb/c and C57BL/6 mice and Wistar rats) and completed short term industrial projects on novel drugs and pharmaceuticals in animal models (toxicity studies, anti-tumor, anti-inflammatory, anti-diabetic and anti-hepatic studies etc).
- Achieved project goals and objectives through proactive management, quality planning and timely execution and assisted in the preparation of project reports, manuscripts, and presentations.
- Experience in animal cell culture (media preparation, culture, staining, sensitivity, and sterilization techniques) and expertise in handling various cell lines such as 4T1, L929, MCF7, MDA-MB-231, B-16-F10etc.
- Participated and organized meetings, seminars, webinars during the project Assisted the training programs conducted in the center and helped the training students and faculties through their course time very well.
- Took overall efficient management of laboratory.

Equipments Handled

PCR thermochemical
Nanopore sequencer
Electrophoretic apparatus
Gel-doc system
UVTransilluminator
Laminar Air Flow
BOD incubator
Compound microscope
Fluorescent microscope
Deep Freezers
Liquid N2 Facilities
Autoclave
Hot air oven
Spectrophotometer
Multimode reader
Soxhlet apparatus
Magnetic stirrer
Vortex shaker
Ultracentrifuge
Micro centrifuge
PH Meter



Educational Qualifications

- 2015 **MSc. Microbiology (83.69 %)**
Govt. Arts and Science College, Kozhinjampara, Palakkad
- 2013 **BSc. Microbiology (90.06 %)**
St. Mary's College, Thrissur
- 2010 **Higher Secondary Education (86.23 %)**
Govt. Higher Secondary School, Anchery, Thrissur



Publications

- Biomarker Signatures to Monitor Alcohol Consumption and Induced Organ Damage. *Journal of Clinical and Diagnostic Research*, 15(2), 2021.
- Alcohol state markers- facility and utility for clinical management of alcohol use disorders: study from a tertiary care centre in South India, *International Journal of Research in Medical Sciences*, 9(10), 2021.
- Advances in the Lung Cancer Immunotherapy Approaches. *Vaccines*,10(1963), 2022.
- Sub-pocket-focused designing of tacrine derivatives as potential acetylcholinesterase inhibitors. *Computers in Biology and Medicine*. 2023.
- Genotypic characterisation of Carbapenemases in clinical isolates of *Acinetobacter baumannii* in a tertiary care teaching hospital of Kerala. *Journal of Medical Bacteriology*, 1293), 2024. 27-34