

NISHA MUTHUKUMARAN

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Personal Profile

I am an ambitious candidate, aspiring to contribute to the field of medical research. With most of my previous work focused on immunological studies and oncology, I am excited to explore other niches in clinical research. Driven by my infectious enthusiasm towards the field, I would be the perfect choice if you're looking for someone who is hardworking, and willing to adapt and learn.

Skills

Flow Cytometry • Cell Culture Techniques • Cloning • Lentiviral Vector Titration • Bioluminescence assay • ELISA • RT-PCR • DNA sequencing • GCP • cGMP • GDP • Deviation • CAPA • Root cause analysis • Data analysis • GraphPad PRISM • MS Office • Communication skills • Team building

Professional Experience

Immuneel Therapeutics

Quality Control Analyst

Bangalore, India

May 2023 – present

- Working as part of the Cell Biology team, I have planned and executed successfully, flow cytometry based assays required for the analysis of raw material, in-process and finished product in GMP facilities.
- Prepared and reviewed protocols, Standard Operating Procedures and study reports as required.
- Involved with the R&D team for flow-based assay development, qualification and data review. Responsible for method transfer to QC and analytical method validation experiments.
- In-charge of overseeing inventory details.
- Completed QMS activities as part of CDSCO audit, followed up with risk management strategies and CAPA.

Research Experience

Department of Hematology, Imperial College London

London, United Kingdom

- Worked as part of the Targeted Gene Therapy group, focused on studying the applications of CRISPR-Cas9 on gene editing, under the supervision of Dr. Andrew C Porter.

Department of Immunology, SRM IST

Chennai, India

- Carried out the synthesis of anti-tumour drug encapsulated nanoparticles, to treat in vivo models of Inflammatory Bowel disease.

Publication and Talks

- Rupachandra, S., Muthukumaran, N., Selvam, M.P., Senthilkumar, S., Vaidhyalingam, S. and Dharshene, K., 2021. **In Vitro Assessment of Cytotoxic Activity of Bioactive Peptides from Momordica Dioica and Solanum Trilobatum against Human Colon Cancer Cells**. Biomedical and Pharmacology Journal, 14(2), pp.1007-1018.
- ‘**Cytotoxic activity of bioactive peptides from the selected plant source on human colon cancer cells**’, Plant Genetics and Genomics Conference, 2020, SRM IST.
- ‘**Evaluation of the anti-pathogenic activity of novel peptides extracted from plant sources against plant pathogens**’, National Conference on Emerging Trends and New Challenges in Biotechnology, 2020, MGR College, Hosur.

Education

Imperial College London

MSc. In Molecular Medicine

London, United Kingdom

2021-2022

SRM Institute of Science and Technology

B.Tech. Biotechnology

Chennai, India

2017-2021

Courses and Certifications

- **Good Clinical Practice** **May, 2023**
IQVIA
- **Google Data Analytics** **March, 2023**
Google