# Nijitha K

# Senior Research Fellow

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# **Professional Experience**



clotting factors), SMA, and HFE, utilizing the RFLP method. Additionally, I conducted HLA typing for organ transplantation, employing SSP (Sequence Specific Priming) and SBT (Sequence Based Typing) methods. In the context of organ transplantation, I also performed lymphocyte cross-match assays, including AUTO, ALLO, DTT, and IgM inactivation. Further expanding my expertise, I conducted cancer genetic tests such as Jak2 (V617F), BRAF (V600E), and Beta Thalassemia-5 common mutation analyses using the Sanger Sequencing Method. I also gained proficiency in DSA and PRA analysis using LUMINEX BEAD BASED METHOD and quantified CMV, HCV, and HBV using Quantitative Real-Time PCR. My technical skills included the operation of various instruments, such as the ABI Prism 310 Genetic Analyzer, Florescence PCR Instrument-Rotor Gene Q, 7500 Fast Real Time PCR System, 7300 Real Time PCR, Luminex, and Eppendorf PCR. In addition to these achievements, my technical repertoire covered a range of microbiological, molecular, and immunological techniques, making me a versatile contributor to the field of molecular biology.

### Education

2012 – 2014 Bangalore, India

2009 – 2012 Kozhikode, India M sc Applied Genetics, The Oxford College Of Science

B sc Genetics, AWH Special College



#### Languages



### Projects

Project on chromosome analysis on couples experiencing bad obstetric history conducted at Genetika, Center for advanced Genetic studies, Thiruvanathapuram-24

Participated in oral presentation competition in Jnanarjana 2K14,6 National Science Conference on "Beyond the frontiers in science & Technology" held on 27 and 28 of March 2014 at The Oxford College of Science.

#### Skills

#### Research and Analysis Skills

Experimental Design Data Collection and Analysis Statistical Analysis Data Interpretation

#### Instrumentation:

Polarized Light Microscope ABI Prism 310 Genetic Analyzer Real-Time PCR Systems (e.g., 7500 Fast Real Time PCR, 7300 Real Time PCR) Luminex Technology Fluorescence PCR Instrumentation Eppendorf PCR Equipment

#### Collaboration and Communication:

Collaborative Research Co-authoring Research Papers Conference Presentations Academic Mentorship

#### Immunology:

ELISA (Enzyme-Linked Immunosorbent Assay) RIA (Radioimmunoassay) Blood Compatibility Testing (Lymphocyte Cross-Match)

#### Laboratory Techniques:

Molecular Biology Techniques Nucleic Acid Isolation PCR (Polymerase Chain Reaction) RT-PCR (Reverse Transcription PCR) Gel Electrophoresis DNA Sequencing (Sanger Sequencing) Cell Culture and Viability Assays Immunohistochemistry Microbial Techniques Blotting Techniques (Southern, Northern, Western)

#### Project

Management: Project Planning and Execution Team Coordination Resource Management Problem-Solving and Innovation

#### **Genetic Analysis:**

Gene Mutation Analysis (e.g., RFLP method) HLA Typing (Sequence Specific Priming, Sequence Based Typing) Genetic Testing (e.g., Jak2, BRAF, Beta Thalassemia)

#### **Quality Control:**

Quality Assurance and Control in Laboratory Procedures

## Declaration

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I hereby declare that all statements made in this application are true and complete to the best of my knowledge and belief.

Nijitha K Trivandrum, 25/09/2023

### References

**Dr K G Sreejalekshmi**, Professor, Dept. of Chemistry, IIST sreejalekshmi@gmail.com, +91 9447862637

**Dr. Lalitha Biswas PhD**, *Head of the Department, Molecular Biology Laboratory,* Amrita Institute of Medical Sciences and Research Centre +91 9539298806