



# SRUTHI M K

Molecular Biologist

## Contact

- ☎ +91 9961760962
- ✉ sruthimksumesh@gmail.com
- 📍 Kannur, Kerala, India

## Education

- MSc Biotechnology (First Class, 3<sup>rd</sup> Rank)  
Kannur University (2013)
- BSc Biotechnology (B Grade)  
Kannur University (2011)
- B Ed Biological Science (A Grade)  
Bangalore North University (2021)

## Languages

- Malayalam
- English
- Hindi

## Personal Data

DOB: 11.06.1990  
Gender: Female  
Nationality: Indian  
Marital Status: Married

## Summary

Highly motivated Molecular Biologist with expertise in Sanger Sequencing, qPCR, RT PCR, MLPA and DNA/RNA extraction. Skilled at handling research and diagnostic tests, analysis and report generation.

## Experience

Molecular Lab Technician

**Karkinos Healthcare Pvt Ltd, Department of Diagnosis – Clinical Services, Kochi** | Oct 2022 – Present

- Skilled in handling Molecular Oncology diagnostic tests.
- Analysis and reporting of results.
- Skilled in performing Validation and proficiency testing by CAP and NABL.
- Experienced in DNA/RNA extractions from FFPE, Fresh Tissue, Blood and Cytology cell scrape.
- Experienced in Molecular Techniques including Sanger Sequencing, qPCR, RT PCR, MLPA, and Fragment Analysis
- Skilled in Performing NGS QC Check

Junior Research Fellow

**Amrita Institute of Medical Sciences and Research Center, Department of Molecular Oncology, Kochi** | Oct 2021 – Sep 2022

- Utilized a variety of techniques including Sanger Sequencing, qPCR, RT PCR, MLPA, Fragment Analysis etc for Molecular Oncology Diagnosis.
- Skilled at DNA/RNA extractions from FFPE, Fresh Tissue and Blood Samples.
- Analysis and Reporting

Assistant Professor

**Sir Syed Institute for Technical Studies (Affiliated to Kannur University),  
Kannur** | Feb 2021 – Jul 2021

- Provided offline and online Molecular Biology Teaching Classes.
- Created and administered comprehensive exams to evaluate student performance.

Project Fellow

**College of Veterinary and Animal Sciences, Department of Veterinary  
Parasitology, Wayanad** in the Project entitled, 'Molecular detection of  
ticks and tick borne pathogens', funded by KSCSTE. | Apr 2016 – Mar  
2017

- Experienced in RNA extraction from Tick samples.
- Skilled at Conventional and RT PCR techniques.
- Published articles on findings related to Tick borne Pathogens.

Technical Assistant

**Eco Global, Kannur** | Jan 2014 – Sep 2014

- Providing Training Programs to team members.
- Providing Professional consulting services to customers.
- Maintaining Sales orders and customer records.

## Trainings

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Spices Extension Trainee

**Spices Board India, Ministry of commerce and Industry, Govt. of  
India** | Dec 2014 – Apr 2014

- Assisting higher authorities in field works and other extension activities.
- Assisting higher authorities in providing IPM campaigning and QITP programmes to farmers.
- Providing presentations on given topics
- Knowledge of filing and updating records/registers
- Solid knowhow of general office procedures

Skill Development Program in Molecular Biology and Bioinformatics

**Unibiosys Biotech Research Labs** | Jun 2011 – Jul 2011

- Undergone hands-on training in Manual DNA extractions from Plants.

- Skilled at Gel Electrophoresis and SDS-PAGE.
- Trained on Microbiology Staining and Streaking Techniques.
- Trained in Basic Bioinformatics tools.

Completed Hands-on Training on the Biomek i7 Automated Workstation  
**Beckman Coulter** | 07 Nov 2022

Completed Training for NovaSeq- X Plus  
**Illumina** | 25 Aug 2023

## Projects

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- A 3 month project work was completed on the topic “**PATHOGENESIS OF JAPANESE ENCEPHALITIS – STANDARDISATION OF RT- PCR IN DETECTION OF FLAVIVIRUS AND ROLE OF APOPTOSIS IN PATHOGENESIS OF JE**” in Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram under the guidance of Dr. Suja.M.S, Program Scientist C, Department Of Viral Disease Biology.
- A 15 days project work was completed on the topic “**HAEMO DIALYSIS**” in the laboratory of Koyili Hospital, Kannur under the guidance of Asst. Administrator Mr. Ajesh Kundoor and Ms. Prasila, Dialysis Technician, Koyili Hospital, Kannur.

## Technical Skills

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- Sanger Sequencing and Fragment Analysis (ABI 3500).
- Real Time PCR (Quant Studio5, Roche-Cobas Z480/Light Cycler 480 and Bio-Rad CFX Duet).
- MLPA (MRC Holland).
- Automated Extraction of Nucleic Acid (Roche – MagNA Pure 24 and Thermo Fisher Scientific – KingFisher Flex).
- Manual and Kit based Extraction of Nucleic Acid.
- QC check using Nanodrop, Qubit Fluorometer, Microplate Reader (Varioskan LUX), Gel Electrophoresis and Tape Station (Agilent).

## Publications

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- R K. Pradeep; M. Nimisha; **M K. Sruthi**; P. Vidya; B M. Amrutha; S K. Prashant; K G. Ajith Kumar; V. Anju; C K. Deepa; C N. Dinesh; C. Leena; S. Juliet; P R. Pradeepkumar; R. Chintu; S. Ghosh and R. Reghu “Molecular characterization of South Indian field isolates of bovine Babesia spp. And Anaplasma spp.” Parasitology Research (2019) 118:617-630

- Nimisha; J K. Devassy; R K. Pradeep; P. Vidya; **M K. Sruthi**; A. Pious; S K. Prashant; B M. Amrutha; C. Leena; C K. Deepa; K G. Ajith Kumar; V. Anju; S. Juliet; C N. Dinesh; S N. Nair; G. Chandy; S. Ghosh and R. Reghu “Ticks and accompanying pathogens of domestic and wild animals of Kerala, South India” Experimental and Applied Acarology (2019).

## References

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### **Dr. Prasanth A S**

Molecular Laboratory-Incharge  
Karkinos Healthcare Pvt Ltd  
Kochi, Kerala 682017  
Email ID: [p.ariyannur@gmail.com](mailto:p.ariyannur@gmail.com)  
Mobile: (+91) 703-402-8814

### **Dr. Siraj M V P**

HOD,  
Department of Biotechnology,  
Sir Syed Institute for Technical Studies, Karimbam P.O, Taliparamba, Kannur  
Kerala, INDIA 670142  
Email ID: [sirajmoidu5@rediffmail.com](mailto:sirajmoidu5@rediffmail.com)  
Mobile: (+91) 9447670524

### **Dr. Reghu Ravindran**

Assistant Professor,  
Department of Veterinary Parasitology, College of Veterinary and Animal Sciences,  
Pookode, Lakkidi P.O., Wayanad District, Kerala State- 673 576, INDIA.  
Email ID: [drreghuravi@yahoo.com](mailto:drreghuravi@yahoo.com)  
Mobile: (+91) 9447713422

## Declaration

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I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place: Kannur  
Date: 18.03.2024

SRUTHI M K