



# SALINI S.

## MICROBIOLOGIST

Passionate Microbiologist with hands-on experience in all levels of analysis. Aims to work in a firm to utilize my skills and abilities as a committed and sincere person to give a creative contribution to the organization, society and also for my personal growth.

## Contact

### Phone

8547869661

### Email

salinisaleenam@gmail.com

### Address

ALAPPUZHA, KERALA

## Education

2015-2017

### M.Sc Microbiology

Amrita School of Biotechnology,  
Kollam, Kerala

2012-2015

### B.Sc Microbiology

Amrita School of Biotechnology,  
Kollam, Kerala

## Strengths

- Passionate
- Determined
- Hardworking
- Disciplined
- Team Player
- Dedicated and detail oriented

## Language

English

Malyalam

Tamil

Hindi

## Experience

### 2019- May 2022:

Rajiv Gandhi Centre for Biotechnology, Trivandrum, Kerala

### Junior Research Fellow

"Characterization of iron starvation induced dormancy in Mycobacterium and its application in drug discovery" under Dr Krishna Kurthkoti, DBT- Ramalingaswami Faculty Fellow.

### Jan 2017- May 2017:

Indian Institute of Science, Bangalore.

### Master's Degree Dissertation

Project Thesis carried out on "To examine the stage transition of Trichomonas vaginalis under stress condition" under the guidance of Dr Utpal S Tatu, Professor, Indian Institute of Science, Bangalore.

Aim of the project: To examine encystation in Trichomonas vaginalis under redox condition and also to identify differential protein expression in trophozoite and cyst forms.

### Jan 2015- May 2015:

Amrita School of Biotechnology, Kollam, Kerala

### Bachelor's Degree Dissertation

Project thesis carried out on "Isolation of lectins and coloured proteins from Marine algae" under the guidance of Dr Jayashree G, Assistant Professor, Amrita School of Biotechnology, Kollam, Kerala.

Aim of the project: Lectins were isolated from marine algae because it is a cheapest source of lectins. A few methods were done for the screening and isolation of lectins; this includes hemagglutination assay and ion exchange chromatography.

## Publications

- S Salini, Sinchana G Bhat, Saba Naz, Ramanathan Natesh, R Ajay Kumar, Vinay Kumar Nandicoori, Krishna Kurthkoti. The error-prone polymerase DnaE2 mediates the evolution of antibiotic resistance in persisters in mycobacterial cells. *Antimicrobial Agents and Chemotherapy* 2022. <https://doi.org/10.1128/AAC.01773-21> (Co first authors and equal contribution)
- S Salini, Balaji Muralikrishnan, Sinchana G Bhat, Sudeep D. Ghate, R. Shyama Prasad Rao, R Ajay Kumar, and Krishna Kurthkoti. Overexpression of a membrane transport system MSMEG\_1381 and MSMEG\_1382 confers multidrug resistance in Mycobacterium smegmatis (under review) (Co-first authors and equal contribution)

## Scientific meetings

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- Secured the Best Poster Award during the 88 th Annual meeting of the Society of Biological Chemists India
- Attended and helped to organize an International conference named 'BioQuest' conducted by Amrita School of Biotechnology, Amritapuri during August 2013
- Attended seminars by many eminent persons like Dr. Lee Hartwel, Dr. Jeff Perry, Dr. Mary- Claire King etc.
- Attended a workshop on Hydroponics during Vidyut 2013 conducted by Amrita School of Biotechnology.
- Attended a workshop on 'InSilico' during Vidyut 2014 conducted by Amrita School of Biotechnology.

## National level exams

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- GATE 2018 (LIFE SCIENCE) qualified with 1008 rank- GATE score 460, Percentile 92.8%
- Qualified JGEEBILS / TIFR examination GS2018 Biology

## Expertise in :

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- Genomic DNA Isolation
- Plasmid DNA isolation
- RNA isolation
- Cloning
- Agarose gel electrophoresis
- Polyacrylamide Gel Electrophoresis
- Polymerase chain Reactor (PCR)
- Microbiological culturing
- Biochemical tests
- Affinity chromatography
- Hemagglutination assay
- Immunoprecipitation
- Chromatin immunoprecipitation
- Real time PCR
- Antibiotic Susceptibility Assay
- Fluorescent Microscopy
- Confocal Microscopy
- Computer Software skills (GraphPad Prism, Chimera, MS Office, ImageJ and CellSens)

## Reference

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### Dr Krishna Kurthkoti

DBT-Ramalingaswami Faculty Fellow  
Rajiv Gandhi Centre for Biotechnology  
Trivandrum  
Kerala 695014

**Email:** kurthkoti@rgcb.res.in

### Dr. Jayashree G

Assistant Professor  
Amrita School of Biotechnology  
Amrita Vishwa Vidyapeetham  
Amritapuri , Kollam  
Kerala- 690525

**Email:** jayasudars@gmail.com