

## CURRICULUM VITAE

**Name** : Sajitha K.L  
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**Marital status** : Married  
**Husband** : O.M. Sunilkumar  
**Profession** : Doctor (Anaesthesiologist)

### Educational Qualifications:

Degree	University/ Institute	Year of passing	Subjects	Division/ % marks
Ph. D.	Kerala Forest Research Institute, Peechi, Thrissur/ Forest Research Institute Deemed University, Dehra Dun	Submitted on 22 <sup>nd</sup> February 2016	Forest Biotechnology	
M. Sc.	Dr. G.R. Damodaran College of Science, Coimbatore/ Bharathiar University	2002	Biotechnology	68/ First
B. Sc.	Karyavattom Govt. College, Thiruvananthapuram/Kerala University	2000	Biotechnology, Chemistry, Zoology	76.7/ First
Higher Secondary	V.S.S.C Central School, Thiruvananthapuram	1997	Physics, Chemistry, Biology, Mathematics	74/ First
Matriculation	St. Mary's Higher Secondary School, Pattom, Thiruvananthapuram	1995	State syllabus	92.5/ Distinction

**Title of Ph. D.Thesis:** Identification and Mass Production of Bacterial Biocontrol Against Sapstain on Rubberwood

**Supervisor:** Dr. T.B. Suma  
Scientist E1  
Genetics and Tree Breeding Department  
Forest Genetics and Biotechnology Division  
KFRI, Peechi, Thrissur

**Research publications in international peer reviewed journals:**

1. Sajitha, K.L. and Dev, S.A. 2016. Quantification of antifungal lipopeptide gene expression levels in *Bacillus subtilis* B1 during antagonism against sapstain fungus on rubberwood. *Biological control* (Impact factor- 1.56), 96: 78-85.
2. Sajitha, K.L., Florence, E.J.M. and Dev, S.A. 2014. Screening of bacterial biocontrol against sapstain fungus (*Lasiodiplodia theobromae* Pat.) of rubberwood (*Hevea brasiliensis* Muell. Arg.). *Research in Microbiology* (Impact factor- 3), 165: 541-548.
3. Sajitha, K.L. and Florence, E.J.M. 2013. Effects of *Streptomyces* sp. on growth of rubberwood sapstain fungus *Lasiodiplodia theobromae*. *Journal of Tropical Forest Science* (Impact factor- 0.5), 25: 393-399.
4. Sajitha, K.L., Dev, S.A. and Florence, E.J.M. 2016. Identification and characterization of lipopeptides from *Bacillus subtilis* B1 against rubberwood sapstain fungus through MALDI-TOF-MS and RT-PCR. *Current Microbiology* (Impact factor- 1.5). Published online

**Previous Work Experience:**

More than 10 years of research experience in various research institutions

1. Worked as Senior Research fellow in a DBT funded project entitled “Mass production of *Bacillus subtilis* for biocontrol of sapstain on rubberwood” at Kerala Forest Research Institute from 20-10-2011 to 31-12-2014.
2. Worked as Senior Research fellow in a KSCSTE funded project entitled “Standardization for enhanced production of antagonistic principle by *Bacillus subtilis* and *Streptomyces* for the control of sapstain on rubberwood” at Kerala Forest Research Institute from 13-03-2011 to 19-10-2011.
3. Worked as Junior Research fellow in a DST funded project entitled “Use of bioprotectant against fungal deterioration of rubberwood” at Kerala Forest Research Institute from 18-02-2005 to 30-6-2009.

4. Worked as Research Assistant in the DBT project entitled “Establishment of germplasm bank for ayurvedic medicinal plants” at College of Horticulture, Kerala Agricultural University, Thrissur from 21-12-2004 to 17-02-2005.
5. Worked as Senior Research Fellow in the NATP-ICAR funded project “Meat species identification” at Centre of Excellence in Meat Science and Technology, College of Veterinary and Animal Sciences, Thrissur from 29-01-2004 to 30-11-2004.
6. Worked as Research Assistant in the DBT project entitled “Establishment of germplasm bank for ayurvedic medicinal plants” at College of Horticulture, Kerala Agricultural University, Thrissur from 30-09-2002 to 15-05-2003.

### **Conference Papers:**

1. A contest paper entitled “Scale up production of *Bacillus subtilis* as biocontrol against rubberwood sapstain fungus” was presented in 27<sup>th</sup> Kerala Science Congress held at Alappuzha, Kerala from 27<sup>th</sup> – 29<sup>th</sup> January 2015.
2. A poster paper entitled “Extraction and study of the effect of antifungal antibiotics in the biocontrol of sapstain fungus *Lasiodiplodia theobromae*” was presented in National Seminar on Forestry and Agriculture held at Kerala Forest Research Institute, Peechi, Thrissur on 7-8<sup>th</sup> November 2013
3. An oral paper entitled “Extraction and identification of iturin A- the antifungal antibiotic in biocontrol of sapstain by *Botryodiplodia theobromae*” was presented in 23<sup>rd</sup> Kerala Science Congress held at Thiruvananthapuram, Kerala from 29<sup>th</sup> -31<sup>st</sup> January 2011.
4. A poster paper entitled “*Bacillus subtilis* B2, a potential bioprotectant for the control of sapstain on rubberwood” in the International Conference on the Art and Joy of Wood held at Bangalore, India on 19<sup>th</sup> -22<sup>nd</sup> October 2011.
5. A contest paper entitled “Bacterial bioprotectants against fungal deterioration of rubberwood- a case study on *Botryodiplodia theobromae* infection” was presented in 20<sup>th</sup> Kerala Science Congress held at Thiruvananthapuram, Kerala from 28<sup>th</sup> -31<sup>st</sup> January 2008.
6. A paper entitled “Use of bioprotectant against the sapstain fungus *Botryodiplodia theobromae* was presented in Biovision 2007 conducted at Sahrdaya College of Engineering, Kodakara from 22<sup>nd</sup> -24<sup>th</sup> October 2007.
7. A poster paper entitled “*In vitro* multiplication of *Trichosanthes cucumerina*” in National Symposium on Biotechnological Interventions for Improvement of Horticultural Crops: Issues and Strategies held at Kerala Agricultural University, Thrissur, Kerala from 10<sup>th</sup> - 12<sup>th</sup> January 2005.

### **Awards:**

1. First position in scientific paper presentation in Annual Research Seminar conducted at Kerala Forest Research Institute, Peechi, Thrissur on August 29<sup>th</sup> –September 3<sup>rd</sup>, 2014.
2. First position in the poster presentation in National Seminar on Forestry and Agriculture conducted by Gregor Mendel Foundation, Calicut and Kerala Forest Research Institute, Peechi, Thrissur on 7-8<sup>th</sup> November 2013.

### **Credits**

16S rRNA gene sequence of seven bacteria and one actinomycete were deposited in the *NCBI* genbank (Accession numbers: KJ652086, KJ652088, FJ445405, KJ652090, KJ652089, KJ652087, KJ652091, FJ643450)

### **Field of expertise:**

- Strong background in bacterial identification, antibiotic extraction and characterization
- Well versed with scale up production of microbes employing bioreactors.
- Know-how in analytical techniques employing GC-MS, HPLC and MALDI-TOF-MS
- Skilled in PCR based molecular marker sequencing and analysis for the species identification of bacterial isolates.
- Expertised in quantification of gene expression using realtime quantitative PCR.
- Experienced in primer designing, BLAST, multiple sequence data and phylogeny analysis

### **Computer Knowledge**

Trained in MS Office and Internet browsing

### **Trainings Attended**

Attended six months Ph. D. Course work in Computer Application, Statistical Analysis and Basic Forestry at Kerala Forest Research Institute, Peechi, Thrissur, Kerala from September 2011 to February 2012.

Attended four days training on GC-MS and HPLC as part of the 'In-house Training in Equipment Handling and Scientific Procedures' at the Kerala Forest Research Institute from 10<sup>th</sup> to 13<sup>th</sup> March 2008.

### **Seminars attended**

1. Participated in the National Seminar on Microbes for Green Environment conducted at St. Mary's College, Thrissur, Kerala on 21<sup>st</sup> -22<sup>nd</sup> August 2014.
2. Participated in two day Refresher course in Forestry Research conducted at Kerala Forest Research Institute, Peechi, Thrissur, Kerala on 3<sup>rd</sup>-4<sup>th</sup> July 2014.

3. Participated in the National Workshop on Bioinformatics held at Dr. G.R. Damodaran College of Science, Coimbatore from 29<sup>th</sup> September to 1<sup>st</sup> October 2001.
4. Participated in the symposium on Biomedical Technology held as a part of National Technology Day at Sree Chitra Tirunal Institute for Medical Sciences and Technology on 11-05-2001.

**Referees:**

1. Dr. T.B. Suma  
Scientist E1  
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Forest Genetics and Biotechnology Division  
KFRI, Peechi, Thrissur.  
  
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2. Dr. E.J. Maria Florence  
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