

## CURRICULUM VITAE

**Perumalla Srikanth, Ph.D.**

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### EDUCATION

<b>Ph.D.</b> in Transgenic Technology, Sam Higginbottom University of Agriculture, Technology and Sciences, Allahabad, India.	2019
<b>M.Sc.</b> in Agriculture Microbiology, Sam Higginbottom Institute of Agriculture, Technology & Sciences, Allahabad, India.	2014
<b>P.G. Diploma</b> in Plant Protection, Annamalai University, Chidambaram, India.	2012
<b>B.Sc.</b> in Agriculture, Annamalai University, Chidambaram, India.	2012

### POSITIONS HELD

**Assistant Professor**, Department of Agriculture, Kalasalingam Academy **2020(1<sup>st</sup>Aug) - Present**  
of Research and Education, Krishnankoil, India.

**Senior Research Fellow**, Department of Molecular and Cellular Engineering, 2017-2019  
Sam Higginbottom University of Agriculture, Technology and Sciences, Allahabad, India.

**Junior Research Fellow**, Centre for Transgenic Studies, Sam Higginbottom 2015-2017  
University of Agriculture, Technology and Sciences, Allahabad, India.

### COURSES HANDELD

Academic Year	Semester (ODD/EVEN)	Name of the Course	Credits
2020	ODD	HOR18R255 Temperate Fruit Crops AGR18R302 Principles of Food Science and Nutrition HOR18R356 Ornamental Horticulture	2(1+1) 2(2+0) 2(1+1)
	EVEN	HOR18R166 Fundamentals of Extension Education HOR18R266 Insect Pests of Fruit, Plantation, Medicinal & Aromatic Crops AGR18R360 Diseases of Field and Horticultural Crops and Their Management	3(2+1) 2(1+1) 3(2+1)
	SUMMER TERM	AGR17R269 Agro-Advisory Services AGR18R202 Farming System and Sustainable Agriculture	3(2+1) 2(2+0)
2021	ODD	AGE18R252 Principles of Agronomy AGR18R152 Crop Production Technology - I HOR18R255 Temperate Fruit Crops	3(2+1) 2(1+1) 2(1+1)

## SUPERVISORY & MENTORING EXPERIENCE

Academic Year	Semester (ODD/EVEN)	Course	Name of the Research Project	Duration	Number of Students
2020	ODD	B.Sc.(Hons) Horticulture	Commercial cultivation of Oyster Mushroom ( <i>Pleurotus florida</i> ).	6 Months	9
			Agricultural Waste Management – Indore Method of Composting.	6 Months	9
2021	ODD	B.Sc.(Hons) Horticulture/ B.Sc.(Hons) Agriculture	To Study the Effect of Organic Manures on Growth and Yield of Chrysanthemum Under Polyhouse Conditions.	6 Months	4
			Effect of Organic Manures and Biofertilizers on Growth and Yield of Cucumber Under Polyhouse Conditions.	6 Months	4
			Organic Production Technology of Azolla	6 Months	4

## RESEARCH EXPERIENCE

**Doctoral Researcher**, Lab of Dr. Sam A. Masih

2014-2019

Department of Molecular and Cellular Engineering, Sam Higginbottom University of Agriculture, Technology and Sciences, Allahabad, India.

- ✚ Identified that highest Cyclohexamide and Kanamycin Resistant soil bacteria was found from *Bt* Cotton soil Samples compared with *nBt* cotton soil samples.
- ✚ NptII gene detection from Soil Bacteria.
- ✚ Discovered that highest Cry1Ac expression was found in 50% *Bt* cotton along with 50% *nBt* cotton combination.
- ✚ Discovered that highest yield was found in 75% *Bt* cotton along with 25%*nBt* cotton combination.

**Post Graduate Researcher**, Lab of Dr. Harison Masih

2012-2014

Department of Microbiology and Fermentation Technology, Sam Higginbottom University of Agriculture, Technology and Sciences, Allahabad, India.

- ✚ Isolated and characterized of *Penicillium digitatum* and *Aspergillus niger* from soil and mass produced.
- ✚ Discovered the *Penicillium digitatum* and *Aspergillus niger* along with NPK combination showed better yield and growth of green gram crop.

- ✚ Developed a novel *Penicillium digitatum* and *Aspergillus niger* fungal native liquid fungal Biofertilizer formulation especially for loamy soils in Uttar Pradesh region of India.

**Under Graduate Student**, Lab of Prof. Dr. D. Reetha

2008-2012

Department of Microbiology, Annamalai University, Chidambaram, India.

- ✚ Isolated and characterized of *Pseudomonas* sp., *Azotobacter* sp. and *Azospirillum* sp. from Rhizosphere soil.
- ✚ Identified that combination of *Pseudomonas* sp., *Azotobacter* sp. and *Azospirillum* sp. combination showed better growth and yield in PKM1 Tomato variety.
- ✚ Developed a new PGPR formulation with combination of *Pseudomonas* sp., *Azotobacter* sp. and *Azospirillum* sp.

## FELLOWSHIPS AND GRANTS

- ✚ Rajiv Gandhi National Fellowship  
INR 8,12,200 (\$10,907) for 3 yrs.

2015-2019

## AWARDS AND HONORS

- ✚ The Certificate of Honour “**Gold Medal**”  
Awarded for the Master of Science in Agriculture Microbiology, Department of Microbiology and Fermentation Technology, Sam Higginbottom Institute of Agriculture, Technology & Sciences. Allahabad, India.
- ✚ The Certificate of Merit “**First Position**”  
Awarded for the Master of Science in Agriculture Microbiology, Department of Microbiology and Fermentation Technology, Sam Higginbottom Institute of Agriculture, Technology & Sciences. Allahabad, India.

2014

2014

## ACADEMIC SERVICE

2020-Present

- ✚ Class Co-Ordinator for First B.Sc. (Hons) Agriculture Students
- ✚ In charge Faculty for University Botanical Garden (10Acres)
- ✚ In charge Faculty for Polyhouse (Hi-Tech & Natural Type)
- ✚ ICAR Accreditation files Preparation
- ✚ NAAC Accrediation files Preparation
- ✚ External Examiner for Under Graduates practical Examinations
- ✚ Memorandum of Understanding with JEYPEE BIOTECH, Tamil Nadu  
on Biofertilizer Production and Agriprenurship training programs on Sustainable farming

## PROFESSIONAL SOCIETIES

Professional member (P0141053) of Royal Society of Biology, U.K.

2020

## SKILLS

- Laboratory: PCR, DNA extraction from plants and Microbes, Protein extraction from plants, ELISA, Southern blot, Agarose gel electrophoresis, Microbial culture, Aseptic techniques.
- Computer: MS Office applications, WASP Statistical package
- Languages: English (Fluent written and spoken), Hindi (Fluent written and spoken), Telugu (Fluent written and spoken) Tamil (Spoken only)
- Others: Technical writings and Communication skills

## PRESENTATIONS

- Studies on the effect of PGPR on the growth and yield of Tomato (*Lycopersicon esculentum*) Var. PKM-1 in National web conference on Emerging Trends in Agricultural Sciences and Technologies. Kalasalingam School of Agriculture and Horticulture, Kalasalingam Academy of Research and Education, Krishnankoil, India, 17-18<sup>th</sup> July 2021.
- Bt cotton: Boon against Insect Resistance in National Seminar on Sustainability of Agriculture in changing climate scenario. Department of Botany, University of Allahabad, India, 21-22<sup>nd</sup> April 2018.
- Role of NGO's in Training and Promotion of SHG's in Andhra Pradesh in National Seminar on Socio-Economic implications of SHG's in 2020. Department of Agricultural Economics, Annamalai University, Chidambaram, India, 28-29<sup>th</sup> March 2012.

## PUBLICATIONS

### Peer review

- Srikanth, P.** and Reetha D. (2021) Studies on the effect of PGPR on the growth and yield of tomato (*Lycopersicon esculentum*) var. PKM-1. *Crop Research*.56(5):202-207.
- Sivakumar, D., **Srikanth, P.**, Ramteke, P W. and Nouri, J. (2021) Agricultural waste management generated by agro-based industries using biotechnology tools. *Global Journal of Environmental Science and Management*. <http://dx.doi.org/10.22034/GJESM.2022.02.10>.
- Srikanth, P.**, Devasahayam, M., Maxton, A. and Masih, S. A. (2019) Optimization of spacing and refuge strategy for improved Cry1Ac expression level in *Bt* cotton. *Research Journal of Biotechnology*. 14(8): 45-52.
- Srikanth, P.**, Maxton, A. and Masih, S. A. (2019) *Bt* cotton: A boon against insect resistance. *Journal of Pharmacognosy and Phytochemistry*. 8(2): 202-205.

- ✚ Peardon, R., Devasahayam, M., **Srikanth, P.**, Maxton, A., Masih, S. A. and Singh R. (2018) Effect of Refuge Cotton Crops on Yield of Bollgard II in Allahabad. *Advances in BioResearch*. 9(6): 30-35.
- ✚ **Srikanth, P.**, Devasahayam, M., Singh, R. and Masih, S. A. (2018) Improved Cry1Ac expression levels during *Bt* cotton cultivation. *Research Journal of Biotechnology*. 13 (9): 20-25.
- ✚ **Srikanth, P.**, Devasahayam, M., Singh, R. and Masih, S. A. (2018) Comparative analysis of antibiotic susceptibility pattern in Transgenic Cotton varieties. *Advances in BioResearch*. 9 (2):67-72.
- ✚ Venugopal, U., Kumar, A., **Srikanth, P.** and Thirupathaiah, G. (2017) Management of Pink boll worm (*Pectinophora Gossypiella*) by Bio – Agent of (*Beauveria Bassiana*) on cotton crop (*Gossypium hirsutum* L.). *International Journal of Agricultural Sciences and Research*. 7(1): 411-416.

### **Submitted Book Chapters**

- ✚ **Srikanth, P.** and Sivakumar, D. (2021) Metagenomics: a powerful lens viewing the microbial world - Microbial Community Studies in Industrial Wastewater Treatment. *CRC PRESS*.
- ✚ Sivakumar, D., **Perumalla, S.**, and Shankar, D. (2021) Genetic Engineering of Algae - Applied aspects of Phycoremediation process in Industrial Waste water Treatment. *CRC PRESS*.
- ✚ **Srikanth, P.** and Sivakumar, D. (2021) Microbial Communications in Gram Positive and Gram Negative Bacteria - *Emerging Technologies in Applied & Environmental Microbiology*. Elsevier.
- ✚ Sivakumar, D., **Perumalla, S.**, and Shankar, D. (2021) Omic Approaches for Characterization of Environmental Microorganisms - *Emerging Technologies in Applied & Environmental Microbiology*. Elsevier.

### **In Preparation**

- ✚ **Srikanth, P.** and Sivakumar, D. (2021) Sustainability of Soil Ecosystem Services - Water, Land and Forest Susceptibility and Sustainability: Geospatial Approaches & Modelling. Elsevier.
- ✚ Sivakumar, D. and **Perumalla, S.** (2021) Evaluation of Soil Erosion Susceptibility and Conservation of Soil Losses - Water, Land and Forest Susceptibility and Sustainability: Geospatial Approaches & Modelling. Elsevier.
- ✚ **Srikanth, P.** and Sivakumar, D. (2021) Innate Fiber Composite Materials, Green Materials for Sustainable Agriculture. *Springer Nature*.
- ✚ Sivakumar, D., **Perumalla, S.**, and Shankar, D. (2021) Microalgae for Waste Water Treatment, Green Materials for Sustainable Agriculture. *Springer Nature*.

## REFERENCES



Dr. Pramod W. Ramteke (Ph.D. Chairman)

Professor, Faculty of Life Sciences, Mandsaur University

Mandsaur, India.

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Dr. P J George (Ph.D. Co-Advisor)

Professor, Centre for Human Resource Development, SHUATS, India.

Tel: +91 9450135405; Email: [pjgeorge55@gmail.com](mailto:pjgeorge55@gmail.com)



Dr. Sam A. Masih (Ph.D. Advisor)

Assistant Professor, Department of Molecular and Cellular Engineering, SHUATS, India.

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