

CURRICULUM VITAE

SUSMITHA J

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Career Objective

Experienced and dedicated professional aspiring to secure the role of Educator and researcher, bringing a fervent dedication to science and a track record of commitment to academic excellence. Grounded in research expertise and demonstrated teaching proficiency, I aspire to inspire and mentor students. My objective is to actively contribute to the academic community, fostering collaboration on projects that elevate both the field and the institution's standing.

Education

Course	College/ School	Board/ University	Year of Passing	CGPA/ Percentage
Ph.D. Genetics and Plant Breeding	Annamalai University, Chidambaram	Annamalai University	Thesis Submitted (Jan 28, 2024)	9.2
M.Sc. in Genetics & Plant Breeding	Annamalai University, Chidambaram	Annamalai University	2020	9.2
B.Sc. (Agriculture)	The Gandhigram Rural Institute – Deemed University, Gandhigram	The Gandhigram Rural Institute	2018	8.91
Higher Secondary Certificate	Vivekananda HSS Paundamangalam	State Board of School Examinations (HR.SEC), T.N.	2014	93.4%
Senior Secondary Certificate	Rani Meyyammai MS Puliur	State Board of School Examinations (SEC), T.N.	2012	93.8%

Ph.D. Research Title

Studies on Phenotypic Potential for Yield and its Attributes in Brinjal (*Solanum melongena* L.)

Specialization

Throughout the course of my doctoral research, I have cultivated substantial expertise in Conventional breeding techniques, Chlorogenic acid estimation, qualitative characterization, DNA isolation, protein isolation, and large-scale data analysis utilizing R-programming software. My practical experience encompasses a comprehensive understanding of these techniques, enabling me to contribute effectively to projects that demand a combination of analytical skills and specialized knowledge.

Experience

- Handled practical classes for the course “Breeding of Field Crops” for B.Sc. Agriculture students at Annamalai university during 2022-23 upon the guidance of my research supervisor.
- Served as a guest educator for general science at Unnati IAS Academy, Tanjore, during 2021.
- Student Intern at Plantrich Agri Tech Pvt Ltd during the period of Jun 2017 - Jun 2017 (1 month).
- Student Intern at Non-Conventional Energy and Rural Development Society during the period of May 2016 - Jun 2016 (2 months).

Publications

1. **Susmitha, J.**, Eswaran, R., & Kumar, N. S. (2023). Elucidation of genetic diversity through Multivariate analysis in brinjal (*Solanum melongena* L.) landraces for varietal improvement. *Journal of Applied and Natural Science*, 15(3), 1012-1017. <https://doi.org/10.31018/jans.v15i3.4694>
2. **Susmitha, J.**, Eswaran, R., & Kumar, N. S. (2023). Genetic Investigation of Yield and Related Components in Some Landraces of Brinjal (*Solanum melongena* L.) *Environment and Ecology*, 41 (3D): 2044—2048.
3. **Susmitha, J.**, Eswaran, R., & Kumar, N. S. (2023). Heterosis breeding for yield and its attributes in brinjal (*Solanum melongena* L.). *Electronic Journal of Plant Breeding*, 14(1), 114-120.

Book Chapters

1. “**Genome Editing Techniques in Plants**”- **J. Susmitha** and Pattan Farooqkhan. *Archives of Agriculture and Allied Sciences, Royal Book Publishing – International*, (ISBN): 978-93-95423-65-6.
2. “**A Brief Overview of Different Methods of Tilling in Crop Improvement**” – **J. Susmitha** and Jeevitha. *Emerging Trends in Plant Science Research, Royal Book Publishing – International*, (ISBN): 978-93-95423-71-7.

3. **“Utilization of Diverse Sequencing Panels for Future of Plant Breeding”**- Pattan Farooqkhan, **J. Susmitha**. *"Plant Breeding and Genetics - Present Concepts and Approaches (Volume-2), Integrated Publications*, ISBN 978-93-95118-85-9.
4. **“Metabolic Engineering for Enhanced Nutritional Content in Crops”** - Pattan Farooqkhan, **J. Susmitha**. *New Horizons in Agricultural Biotechnology*, **Elite Publishing House**, ISBN: 978-93-58991-06-2.
5. **“Emerging Trends in Crop Genetics and Breeding”**- Pattan Farooqkhan, **J. Susmitha**. *Recent Trends in Agriculture (Volume-8), Integrated Publications*, ISBN 978-93-5834-009-9.
6. **“The Role of Biotechnology in Crop Breeding”** - Pattan Farooqkhan, **J. Susmitha**. *Advances in Biotechnology (Volume 1), Stella International Publication*, ISBN No. 978-81-967238-8-0.
7. **“Real-Time Polymerase Chain Reaction (RT-PCR)”**- Jeevitha, **J. Susmitha**. *ARCHIVES OF AGRICULTURE AND ALLIED SCIENCES*, **Royal Book Publishing – International**, (ISBN): 978-93-95423-65-6.

Conference Abstracts

1. **Susmitha, J. and Farooqkhan, P. “Blue Zones and Plant Based Whole Foods: Exploring the Life Changing Lessons of Diet, “Power 9” and Lifestyle from the Centenarians”**, *48th International Conference on Recent Advances in Whole Food Plant-based Nutrition and Health Care* (ICRAPBN, 2023), **Nov 1-2, 2023**; International Vegetarian Union (Since 1908) & International Vegan Alliance, Brahma Kumaris Retreat Centre, Chennai, Tamil Nadu.
2. Farooqkhan, P. and **Susmitha, J. “Advancing Molecular Biology through Genome-Wide Association Studies: Elucidating the Genetic Architecture”**, *4th International Conference on Innovations to Transform Agriculture, Horticulture and Allied Sectors* (ITAHAS-2023), **June 21-23, 2023**; Malla Reddy University, Hyderabad.
3. Farooqkhan, P., Ebenezer Babu Rajan, R. and **Susmitha, J. “Microarray Technology: A Revolutionary Approach to Rapid Crop Improvement”**, *The International Conference on Innovative Approaches in Crop Improvement for Sustainable Agriculture* (IACISA, 2023), **Feb 23, 2023**; JSA College of Agriculture and Technology, Cuddalore, Tamil Nadu.
4. Farooqkhan, P. and **Susmitha, J. “Candidate Gene Validation in Minor Millets, Unravelling the Genetic Basis of Physiological and Agronomic Traits”**, *International Conference on Millets: Breeding, Physiology, Genomics, Biotechnology and Nutraceuticals-2023* (ICM-BPGBN-2023), **July 5-7, 2023**; Rajagiri College of Social Sciences, Kochi, Kerala.
5. **Susmitha, J. and Farooqkhan, P. “Innovations in Plant Disease Detection and Monitoring: A review”**, *The International Conference on Innovative Approaches in Crop Improvement for Sustainable Agriculture* (IACISA, 2023), **Feb 23, 2023**; JSA College of Agriculture and Technology, Cuddalore, Tamil Nadu.

6. Varshini, T., **Susmitha, J.** and Eswaran, R. Genetic divergence among little millet (*Panicum sumatrense*) genotypes using Mahalanobis D² statistic. *International Conference on Millets: Breeding, Physiology, Genomics, Biotechnology and Nutraceuticals-2023* (ICM-BPGBN-2023), **July 5-7, 2023**; Rajagiri College of Social Sciences, Kochi, Kerala.

Workshops/ Certifications

1. Attended Hands-on training program on **“Next Generation Sequencing Data Analysis”** organized by DPMB&B, Tamil Nadu Agricultural University, Coimbatore from 23 – 26 May 2023.
2. Attended workshop on **“Molecular Biology and Biochemistry Techniques”** organized by Indian Institute of Science (IISc) Bangalore and conducted by Ethical Edufabrica Pvt Ltd during May, 2023.
3. Attended **“E-workshop on Basic Bioinformatics”** organized by Biosrishti from 01-03 December, 2022.
4. Participated in **“Virtual Hands-on Training Bibliographic Tool – Mendeley”** organized by Biosrishti on 19th March, 2023.
5. Attended workshop on **“An introduction to R and Data Visualization”** organized by Bioingene on 15th May, 2023.
6. Attended workshop on **“Traditional Rice Varieties – A Boon to Climate Resilient Agriculture”** organized by Department of Genetics and Plant Breeding, Annamalai University, India on 30-31 January, 2019.
7. Attended workshop on **“Photosynthetic Techniques in Crop Improvement”** organized by Department of Genetics and Plant Breeding, Annamalai University, India on 02nd February, 2019.
8. Attended workshop on **“Research Methodology”** organized by PG and Research Department of Mathematics, Government Arts College, Chidambaram, India on 11th October, 2019.
9. Attended workshop on **“Recent Techniques in Biological Control of Plant Pathogens”** organized by Department of Plant Pathology, Faculty of Agriculture, Annamalai University, India on 05-06 October, 2018.
10. Attended workshop on **“Abiotic Stress Tolerance in Crop Plants”** organized by Department of Genetics and Plant Breeding, Annamalai University, India on 11-12 October, 2018.

Technical Skills

- Certified in basic computer skills and MS Office.
- Practical knowledge on DNA isolation methods and equipment like PCR, Cooling centrifuge, laminar airflow, UV-Vis Spectrophotometer.
- Knowledge on R-programming language, GEA&R, TNAU STAT, OPSTAT, PB Tools, Indostat.

- Large Scale data analysis, Phenotyping, Plant phenolics, Next Generation Sequencing data analysis.

Professional Skills

- Presenting seminars on current literature before invited audiences.
- Ability to teach in subjects of Biology, Agriculture and General Science.
- Committed to continuing professional development through conferences, workshops and courses.
- Ability to conduct Scientific experiments independently and as a team.

Strengths

- Passionate about imparting knowledge.
- Good communication and presentation skills.
- Fluency in languages like English and Tamil, Learning Spanish.
- Ability to work under a timeline.
- Raise your hand type of person.

Extra-curricular activities

- Awarded **second place** and cash prize in university level essay competition organized by Dr. Ambedkar Chair, Annamalai University, India on Indian Constitution Day, 2022.
- Awarded **Prizes** in essay writing competitions conducted by Centre for Women's Studies, Gandhigram Rural Institute, Deemed University, India on March 2016 and March, 2018.
- Granted **Rotary Youth Leadership Award** by Rotary Club of Karur under Rotary International on 21-22 August, 2010.
- Awarded **Yoga Champion** in Female (Special Asanas) Category in Tamil Nadu and Pondicherry Level Yoga Festival, organized by Sports Development Authority of Tamil Nadu and Tamil Nadu Yogasana Association on 15-16 November, 2008.
- Appointed as **Class Pupil Leader** (CPL) at Rani Meyyammai Matriculation School during 2008-10.
- Presented Projects on Air Pollution, Purification of Water, Medicinal Herbal Plants in **National Children's Science Congress** organized by Tamil Nadu Science Forum and DST, Government of India on 2007-2009.
- Bagged **14 merit awards** in academic, sports and art events held between 2006-2012 at Chettinad Rani Meyyammai Matriculation School, Puliur, India.
- **Hosted** National and International Conferences, Annual Day functions, and special events at both school and university levels.
- Running a YouTube channel "Aesthetic Brains" on **Public Speaking** with a growing community of more than **10,000 subscribers**.

Volunteering

- Volunteered for collection of funds for Humanitarian Cause organized by **Indian Development Foundation**, 2005.
- Actively volunteered in seven-day Special Camping Programme on Personal Hygiene and Nutrition in Villages organized by **National Service Scheme** on 19-25 March, 2016.

Hobbies

Practicing yoga and gardening.

Personal Information

Date of Birth : 12-06-1996 (27 years 8 months as of Feb, 2024)
 Nationality : Indian
 Marital Status : Unmarried
 Gender : Female
 Address : 5B, Near Water Tank, Chinnagoundanur, Uppidamangalam,
 Karur, Tamil Nadu, India – 639114.

Reference Contacts

1. Dr. R. Eswaran

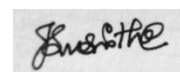
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2. Dr. T.T. Ranganathan,

Professor and Former Vice Chancellor In charge,
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Declaration

I hereby declare that all the information provided above is true according to my knowledge and belief.



(J. SUSMITHA)