

FACULTY PROFILE

1. Personal Information:

Name : Dr. Tantravahi Srinivasan
Designation : Professor
Department : Botany
Mobile : 91- 9440025015
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srinivasan@ctuap.ac.in



2. Area of Specialization:

Plant Stress Biology; Bioprospection; Indoor Pollution

3. Academic qualification:

Ph.D. Plant Biotechnology, University of Hyderabad, India, 2001-2009.

M.Sc. Biotechnology, Andhra University, Visakhapatnam, India, 1997-1999.

B.Sc. Biotechnology, Andhra University, Visakhapatnam, India, 1994-1997.

4. Work/Teaching Experience:

1. Professor, Department of Botany, Central Tribal University of Andhra Pradesh, Vizianagaram. (2022–till date)
2. Professor, Department of Botany, Indira Gandhi National Tribal University, Amarkantak. (2021–22)
3. Associate Professor, Department of Botany, Indira Gandhi National Tribal University, Amarkantak (2017–21)
4. Assistant Professor, Department of Biotechnology, GIS, GITAM University, Visakhapatnam (2008-17)
5. Senior Research Fellow under the Rockefeller Foundation project entitled “Gene transfer and DNA marker technology for enhancing pest and disease resistance in rice” at Directorate of Rice Research, Rajendranagar, Hyderabad (1999-2001)

Projects

1. **“Argyreia nervosa: Conservation, Isolation And Characterization Of Immunomodulatory Compound(s)”** funded by University Grants Commission (UGC) Rs.11.44 lakhs (2013-17) - Principal Investigator
2. **“Molecular Characterisation of Arabidopsis Flowering Time Gene HUA2 Putative Pre mRNA processing factor”** funded by Department of Biotechnology (DBT) Rs.11.235 lakhs (2011-14) - Co- Principal Investigator.
3. **“Studies on immunomodulators from seaweeds of Bay of Bengal at Visakhapatnam coast”** funded by University Grants Commission (UGC) Rs.11.22 lakhs (2013-17) - Co- Investigator.

Research publications in peer-reviewed journals (National /International) (UGC /Scopus /SCI/SCIE/WoS etc.)

1. Galiveti R. Chenna and **Tantravahi Srinivasan**. “*Moisturizer and COVID-19: Are We Missing a Trick?, Coronaviruses (2023)*” Vol.4(1): e300323215157.
2. Ankita Dubey, Kundan Kumar, **Tantravahi Srinivasan**, Anil Kondreddy, Koppolu Raja Rajesh Kumar. “*An invasive weed associated bacteria confers enhanced heat stress tolerance in wheat.*” *Heliyon* (2022) 8(7): E09893 (I.F – 3.7).
3. Deepu Sharma, Fayyaz Rasool, Anand Shanmukh Pothana, Sri krishna Jayadev Magani, **Srinivasan Tantravahi**. “Evaluation of anticancer properties of Geranyl Isovalerate, an active ingredient of *A. nervosa* extract in colorectal cancer cells.” *Frontiers in Pharmacology* (2021) 12:698375 (I.F–5.9).
4. Chandra Mouli Lalam, **T. Srinivasan**, P. Y. Naidu. “Antiproliferative and antibacterial effects of Pyroglutamic acid isolated from *Enterococcus faecium* (MCC-2729).” *Annals of the Romanian Society for Cell Biology* (2021); 25(3):7624-28
5. **T. Srinivasan**. “Overexpression of trypsin protease inhibitor in transgenic tobacco plants exhibit oxidative stress tolerance and fungal resistance.” *Annals of the Romanian Society for Cell Biology* (2021) 25(3):7629-34.
6. M.S.K. Jayadev, M. Sri Durgambica, G. Bhanu Prakash, D. Shukla, AK Tiwari, G. Jyotsna, Y.N. Sastry, **T. Srinivasan**. “Salidroside – Can it be a multifunctional drug.?” *Current Drug Metabolism* (2020); 21(7):512-524(I.F – 3.4)
7. Manoj Kumar M, Vasavi M, **T. Srinivasan**, Uma V, Raj Kumar K., “Development of an in vitro bioassay for recombinant human erythropoietin (rHuEPO) based on proliferative stimulation of an erythroid cell line and analysis of sialic acid dependent microheterogeneity: UT-7 cell bioassay.” *The Protein Journal* (2017) 36(2):112-122 (I.F-4)
8. Manoj Kumar M, Raj Kumar K, **T.Srinivasan**. “Rapid amplification system for recombinant protein production in chinese hamster ovary (CHO) cells.” *Cellular & Molecular Biology* (2016)62 (2): 101-106(I.F-1.77)
9. Manoj Kumar M, Raj Kumar K, **T. Srinivasan**. “Success of the PCR-based replication assay depends on the number of methylation sensitive restriction sites in the PCR amplifying region.” *Cellular & Molecular Biology* (2015). Jun 2;61(3):1-5(I.F-1.77)
10. Chandra Mouli Lalam, **T. Srinivasan**, P.Y. Naidu. “Identification and characterization of *Enterococcus faecium* (MCC- 2729) with antimicrobial and abiotic stress tolerance properties.” *International Journal of Current Microbiology and Applied Sciences*.(2015) 4(8):309-322
11. Chandra Mouli Lalam, **T. Srinivasan**, VSSL Prasad, P. Y. Naidu. “Optimization of cultural parameters for the production of antimicrobial compound from *Enterococcus faecium* CST-1 (MCC- 2729)” *International Journal of Current Pharmaceutical Research* (2015)7(3):78-80.
12. Chandra Mouli Lalam, P. Y. Naidu, **T. Srinivasan**. “Isolation and screening of *Lactobacillus* bacteria for ability to produce antibiotics.” *International Letters of Natural Sciences* (2015). 32: 68-76.
13. **T. Srinivasan** and P.B. Kirti. “Protease inhibitors and stress tolerance.” Invited article for Special issue of *Functional Plant Science and Biotechnology*. (2012) 6:59-66.

14. **T. Srinivasan**, K. Raja Rajesh Kumar, P.B Kirti, "Establishment of efficient and rapid regeneration system for some diploid wild species of *Arachis*." Plant Cell Tissue Organ Culture (2010) 101:303-309. (I.F- 2.7)
15. **T. Srinivasan**, K. Raja Rajesh Kumar, and P.B. Kirti, "Constitutive expression of a trypsin protease inhibitor confers multiple stress tolerance in transgenic tobacco." Plant Cell Physiol. (2009) 50: 541-553. (I.F- 4.9)
16. **T. Srinivasan**, K. Raja Rajesh Kumar and P. B. Kirti. "Heterologous expression of Arabidopsis NPR1 (AtNPR1) enhances oxidative stress tolerance in transgenic tobacco plants." Biotechnology Letters. (2009) 31:1343-1351.(I.F-2.4)
17. Koppolu Raja Rajesh Kumar, **T. Srinivasan** and P.B. Kirti. "A mitogen-activated protein kinase gene, *AhMPK3* of peanut: molecular cloning, genomic organization, and heterologous expression conferring resistance against *Spodoptera litura* in tobacco." Molecular Genetics and Genomics (2009)282:65-81.(I.F-3.2)
18. Gargi Meur, B. Madhusudan, **T. Srinivasan**, K.R. Rajesh Kumar, Aprana Datta Gupta, P.B. Kirti. "Constitutive expression of Arabidopsis NPR1 confers enhanced resistance to the early instars of *Spodoptera litura* in transgenic tobacco." Physiologia plantarum (2008).133: 765–775.(I.F- 5.08)
19. M.R. Beena, S.K. Jami, **T. Srinivasan**, T. Swathi Anuradha, G. Padmaja, P.B. Kirti. "An efficient direct shoot regeneration from node explants of peanut (*Arachishypogeal* L cv JL-24)" Indian Journal of Plant Physiology. (2005) 10 (3): 205-210.
20. **T. Srinivasan**, Vinod.K.Verma and P.B. Kirti, "Efficient shoot regeneration in pigeon pea, *Cajanus cajan* (L) Milisp. Using seedling petiole." Current Science. (2004) 86 (1) 30-32. (I.F- 1.1).

Book chapters published as author or co-author

1. **Srinivasan T**, Rajya Lakshmi Y.V., Shanmukha Anand P., Sunitha P. and Aruna Lakshmi, Biotization of medicinal plant cultures by endophytes: A promising approach to enrich therapeutics. *Bentham Publishers. (In press)*.
2. Dowluru SVGK Kaladhar, **Tantravahi Srinivasan** (2022), Production of commercial products by vermiculture and vermicomposting. *Biotechnology for waste biomass utilization, (Apple Academic Press (Taylor & Francis Group)) 9781003277187*.
3. Dowluru SVGK Kaladhar, **Tantravahi Srinivasan** (2022), Downstream processing. *Advances in Industrial Microbiology, NOVA Science Publishers, USA*.
4. Dowluru SVGK Kaladhar, **Tantravahi Srinivasan** (2022), Comparative genomics and molecular epidemiology on hepatitis virus induced hepatocellular carcinoma. *Theranostics and precision Medicine for the management of Hepatocellular carcinoma Volume 1 (Elsevier) 9780323993647*.
5. M. Sri Durgambica, K. Parimala, M. Sri Krishna Jayadev, P.S. Anand and **T.Srinivasan** (2021). An insight into the therapeutic potential of phytochemicals for colorectal cancer: Latest perspective, *Colon Cancer Diagnosis and Therapy, Vol-II, (Springer) 978-3-030-64668-4*.

6. Dowluru SVGK Kaladhar, **Tantravahi Srinivasan** (2021). Anti-inflammatory molecular mechanism and contribution of drug transport molecules in colorectal cancer cells. *Colon Cancer Diagnosis and Therapy, Vol-I, (Springer) 978-3-030-63369-1*.
7. Prakash G.V.S.B., **Srinivasan T** (2020). Endophytic secondary metabolites for biological control: a latest perspective. *Plant Microbiome Paradigm (Springer) 978-3-030-50395-6*.

Invited talks/lectures at professional or scientific meetings and conferences

On Multiple Occasions

Research presentations (oral or poster) at professional or scientific meetings and conferences

On Multiple Occasions

Ph.D Guidance:

Guided: 2

Guiding: 3

Research projects (ongoing/completed)

S. No	Title of the project	Name of the funding agency	Grant amount	Duration	Date of commencement	Date of Completion
	Evaluating the Socio-economic Impact of the 'International Year of Millet-2023	ICSSR	Rs.5.00	6 months	07-09-2023	29-02-2024
1	Argyreia nervosa: Conservation, Isolation And Characterization Of Immunomodulatory Compound/(s) - Principal Investigator	University Grants Commission (UGC)	Rs.11.44 lakhs	2013-17	01-04-2013	31-03-2017
2	Molecular Characterisation of Arabidopsis Flowering Time Gene HUA2 Putative Pre mRNA processing factor - Co-Principal Investigator	Department of Biotechnology (DBT)	Rs.11.235 lakhs	2011-14	01-04-2011	31-03-2012
3	Studies on immunomodulators from seaweeds of Bay of Bengal at Visakhapatnam coast - Co- Investigator.	University Grants Commission (UGC)	Rs.11.22 lakhs	2013-17	01-04-2013	31-03-2017

Projects under review

1. "Science Technology and Innovation Hub in Kuntinavalasa village, Mentada Block, Vizianagaram/Parvatipuram Manyam District, Andhra Pradesh State" under DST-SEED: STI-Hub Scheme – Co-Principal Investigator.

Membership of professional bodies:

1. Life member of Indian Science Congress Association (L31223).

Editor of Journal/Reviewer of Journal /Member of Academic Bodies/Advisor:

1. Member, School Level Advisory Committee, GITAM School of Science, GITAM University, Visakhapatnam.

Workshops/Conferences/Seminars Organized:

On Multiple Occasions in different capacities

Workshops/ Seminars/Webinars attended:

On Multiple Occasions in different capacities

11. Awards and Achievements:

1. Qualified in Andhra Pradesh State Eligibility Test (APSET-2013)
2. Received SIROHI Award from Indian Society of Plant Physiology for the manuscript “An efficient direct shoot regeneration from node explants of peanut (*Arachis hypogea* L cv JL-24)” in Indian Journal of Plant Physiology.
3. Co-authored books for M.Sc. Biotechnology, GITAM University in Animal Biotechnology and Molecular Biology.
4. Reviewer and editorial board member (EBM) of some reputed journals like African Journal of Biotechnology, African Journal of Plant Science, International Journal of Genetic Engineering (EBM) etc.
5. Selected for three consecutive years (01-04-04 to 31-03-07) for U.P.E. (University for potential of Excellence) Fellowship. Highest privileged fellowship from the University Grants Commission, Ministry of Human Resource, Government of India.
6. College topper in B.Sc. and M.Sc. (S.V.K.P and K.S. Raju Arts and Science College, Penugonda and GITAM, Visakhapatnam).
7. Certified and stood in the top 10 % in National Standard examination in Physics conducted by Indian association of Physics teachers (1993).
8. Certified and stood in the top 10 % in eighth National Level Science Exam (1992).
9. Certified in Science and Math examination of National School of Education (1991).

12. Other social responsibilities

1. Participated in Inter-collegiate leadership training camp of National Service Scheme of Andhra University (1996).

Administrative Experience

1. Registrar I/c, CTUAP, Vizianagaram (02-09-23 to till date).
2. Dean, School of Sciences, CTUAP, Vizianagaram (01-03-23 to till date).
3. Head, Dept. of Botany, CTUAP, Vizianagaram (03-03-23 to till date).
4. Head I/c, Dept. of Social work, CTUAP, Vizianagaram (03-03-23 to till date).

5. Head, Dept. of Botany, IGNTU, Amarkantak (19-09-2018 to 12-10-2021).
6. Deputy Chief Warden, IGNTU, Amarkantak (30-07-2017 to 15-01-2020).
7. Assistant Principal, GIS, GITAM University, Visakhapatnam (26-12-2014 to 06-06-2017).
8. Member, Academic Council, IGNTU, Amarkantak (19-09-2018 to 16-12-2023).
9. Member, Academic Advisory Committee, CTUAP, Vizianagaram (01-09-2021 to till date).
10. Chairman, BoS, Dept. of Botany, IGNTU, Amarkantak (19-09-2018 to 12-10-2021).
11. Chairman, BoS, Dept. of Botany, CTUAP, Vizianagaram (10-02-2022 to till date).
12. Chairman, BoS, Dept. of Botany, CTUAP, Vizianagaram (03-03-23 to till date).
13. Member, BoS, Dept. of Chemistry, CTUAP, Vizianagaram (10-02-2022 to till date).
14. Member, BoS, Dept. of Env. Science, IGNTU, Amarkantak (25-02-2020 to 16-12-2023).
15. Member, BoS, Dept. of Chemistry, IGNTU, Amarkantak (23-06-2020 to 16-12-2023).
16. Member, BoS, and DRC of Dept. of Biotechnology, GIS, GITAM University, Visakhapatnam (2010-2016).
17. Member, BoS, Dept. of Biotechnology, Y.N. College, Narsapur (2015-2017).
18. Chairman or Member many institutional level committees.