

## CURRICULUM VITAE

Name: **Dr.E.Sujatha**

Designation: **Assistant Professor**

Department/Institute/University: **Department of Microbiology, Kakatiya University, Warangal**

Date of Birth: **05-07-1971** Sex (M/F): **Female**

### **Education** (Graduation onwards & Professional Career)

S. No.	Institution / Place	Degree Awarded	Year	Field of Study
01.	Kakatiya University, Warangal	PhD	2001	Studies on Thermophilic Microorganisms
02.	Kakatiya University, Warangal	M.Sc.,	1995	Microbiology
30	Kakatiya University, Warangal	B.Sc.,(BZC)	1993	Botany, Zoology & Chemistry

### **A. Position and Honors**

#### **Position and Employment** (Starting with the most recent employment)

Sl No.	Institution/ Place	Position	From (Date)	To(date)
01.	Department of Microbiology Kakatiya university	Assistant Professor	01-05-2010	To date
02.	Department of Microbiology Kakatiya university	Head, Department of Microbiology	2018	2020
03.	Department of Microbiology Kakatiya university	Board of Studies chairperson, Microbiology	2020	2022

**Fields of Specialization:** Immunology, Medical Microbiology, Virology, Bioprocess Technology, Algal biotechnology, Nanobiotechnology, Microbial enzymes

**Research Experience:** 21 years

**Teaching Experience:** 21 years

#### **Honors/Awards**

- 01.** Selected for State Level Eligibility Test (SLET)-1998 in Microbiology. Conducted by college service commission of Andhra Pradesh. (Accredited by UGC)
- 02.** Associate fellow of Telangana Science Academy
- 03.** Best Oral presentation award at the 2<sup>nd</sup> International Conference on Clinical and Applied Microbiology organized by BioLEAGUES on 14<sup>th</sup> and 15<sup>th</sup> December 2023

#### **Training programs, Refresher Courses, Workshops and FDPs attended**

- 01.** Faculty Development Program on Fungal Biotechnology: Emerging Trends and Applications organized by Department of Biotechnology in association with the Centre for Training and Learning National Institute of Warangal during 5<sup>th</sup> to 9<sup>th</sup> of August, 2024
- 02.** Refresher Course in Life Sciences organized by the Human Resource Development Centre University of Hyderabad from 16-28 November, 2020. ( at grade)
- 03.** UGC Sponsered Short-term Course on “Challenges in Discovery of Antiviral Agents and Vaccines” by JNTU Hyderabad from 8<sup>th</sup>–13<sup>th</sup> of June 2020
- 04.** Two-day Workshop on “Adaption of latest technologies for sustainable farming system in sericulture” organized by Sericulture Unit, Department of Zoology, Kakatiya University, Warangal. From 23<sup>rd</sup>- 24<sup>th</sup> March, 2018.
- 05.** Two-week Refresher Course on “Advances in Molecular Biology” Organized by Indian Institute of Science, Bengaluru during 08<sup>th</sup> - 22<sup>nd</sup> December 2017

06. Two-day Science Academies' Lecture Workshop on "Animal Biodiversity, Ecology & Strategies of Conservation" organized by the Department of Zoology, Kakatiya University, Warangal, Telangana State during 9<sup>th</sup>& 10<sup>th</sup> November, 2017
07. One week faculty development programme on "Developing Teaching Competencies in Teachers of Higher Education" organized by Teaching Learning Centre, NIT, Warangal during 13<sup>th</sup>-19<sup>th</sup> May 2017.
08. National workshop and continuous Medical Education and Clinical Immunology Past & Present, Organized by Department of Biotechnology, NIT, Warangal held on 20<sup>th</sup> and 021<sup>th</sup> of January 2016.
09. Short term training course on "Animal cell culture and molecular diagnostic techniques" (DBT Sponsored) at Kakatiya University, Warangal 18-08-2014 to 01-09-2014.
10. One day workshop on SPSS 22 Application organized by Department of Computer Science, Kakatiya University held on 5<sup>th</sup> July, 2014.
11. Two-week training programme on "Teacher empowerment I. T champion" (Microsoft and MHRD) at Kakatiya University 01-04-2014 to 10-04-2014.
12. Refresher course in life sciences held on 28/10/2013 to 16/11/2013 at Sri Venkateswara University, Tirupathi-2013.
13. Orientation course (73<sup>rd</sup>) held on 28/09/2012 to 31/10/2012 at Osmania University, Hyderabad.2012
14. Training Programme to P.G. Teachers of Affiliated Colleges- Jointly organized by the Kakatiya University and the A.P. State Council of Higher Education, Hyderabad during 01-07-2008 – 05-07-2008.
15. Training Programme to P.G. Teachers of Affiliated Colleges- Jointly organized by the Kakatiya University and the A.P. State Council of Higher Education, Hyderabad during 02-01-2007 – 06-01-2007.

### **Professional Experience**

**B. Publications (Numbers only): 35**

1. Kuraganti Gunaswetha\*<sup>1</sup>, **Edla Sujatha**<sup>2</sup> Human impact on Cyanobacterial evolution and Adaptation in Changing Environments AIRA Academy – Global Science Publishing Group – 2023 DOI: <https://doi.org/10.5281/zenodo.13771781> , 179-203
2. Dasari Thrimothi, **Edla Sujatha**, Kuraganti Gunaswetha and Gudikandula Krishna, 2023, Isolation, Screening, Identification and Assessment of Laccase-Producing Fungi isolated from different Environmental Samples, Vol. 20(4), p, 1303-1315 Biosciences Biotechnology Research Asia.
3. Gunaswethakuraganti, **Sujatha edla**, Swetha Viddamuri, 2023 Review studies on the significance of Cyanobacteria and microalgae to the Environment and Human health that are found in open water bodies, aerosols and terrestrial atmosphere, Global Science Publishing Group-, 54-69, ISBN: 978-81-952481-1-7 Innovations in Environment, Health and Medical Research.
4. Gunaswethakuraganti, **Sujatha Edla\***, Swetha Viddamuri, 2023, Preparation and Characterization of Silver Nanoparticle cross linked polymeric cages by Freshwater Cyanobacteria and their Biocidal Evaluation against Multidrug Resistant bacteria, Ind. J. Pharm. Edu. Res., 2023; 57(2s): s327-s334.
5. Swetha Viddamuri, Gunaswetha kuraganti, **Sujatha edla**, 2022, Physiochemical characteristics of industrial effluents collected from different industrial sites of India, The American Journal of Science and Medical Research, 2022, 8(1);1-5
6. Kadari Rajyalaxmi\*†, S. Girisham\*, S. M. Reddy\* and **E.Sujatha\***, 2022, Chromate Reduction by Allochromatium sp. Isolated from the Coastal Area of Visakhapatnam, Nature Environment and Pollution Technology, Vol. 21 (5) 2299-2305.
7. Mamatha Anreddy, **Sujatha Edla**, 2021, GC-MS Analysis of Bioactive compounds from Endophytic fungi *Mucor circinelloides* and its antimicrobial study. International journal of Pharmaceutical Research and Applications. 6(4): 1373-1380, DOI: 10.35629/7781-060413731380.
8. Kuraganti GS, **Edla S**, Dasari T, Reddy M, 2020. Characterization, in vitro cytotoxic and antibacterial exploitation of green synthesized freshwater cyanobacterial silver nanoparticles. *Journal of Applied Pharmaceutical Science*. 10(09):088-98.
9. Gunaswetha Kuraganti, **Sujatha Edla**, and Veera Bramhachari Pallaval 2020 Cyanobacteria as Biofertilizers: Current Research, Commercial Aspects, and Future

Challenges. .259 Advances in Plant Microbiome and Sustainable Agriculture, Functional Annotation and Future Challenges, ISBN 978-981-15-3204-7 (eBook)

10. **Edla Sujatha**, Kuraganti Gunaswetha, Pallaval Veera Bramhachari 2020 [Current perspectives on phosphate-solubilizing endophytic fungi: ecological significances and biotechnological applications](#) Plant Microbiomes for Sustainable Agriculture 79-96. ISBN 978-3-030-38452-4
11. Guna Swetha Kuraganti, **Sujatha Edla and Thrimothi Dasari**, 2020. Cyanobacteria assisted bio-reduction of silver nanoparticle conjugates and study of their characterization and antibacterial activity against pathogenic bacteria, **International Journal of Pharmaceutical Sciences and Research. 11(1): 1000-11.**
12. Viddamuri Swetha, **Edla Sujatha**, 2019. Phenol Biodegradation by *Bacillus aryabhatai* strain K13 from paper mill effluent under optimized condition. **International Journal of Pharmacy and Biological Sciences. 9(2): 1377-1385.**
13. Guna Swetha Kuraganti, **Sujatha Edla**, 2018. Isolation and characterization of Antibacterial activity of freshwater cyanobacteria in Telangana, **Asian Journal of Pharmacy and Pharmacology. 4(5): 637-643.**
14. S.Santosh kumar, **Edla Sujatha** and Kuraganti Guna swetha 2017. Optimization and characterization of thermostable  $\beta$ -glucosidase by *Scytalidium thermophilum* SKESMBKU01 and *Humicolasp* SKESMBKU03. **Octa journal of Biosciences. 5(1):13-19.**
15. S.Santoshkumar, **Edla Sujatha**, and Pabba Shiva krishna 2016. Production and Optimization of exo and endo cellulases from thermophilic fungi *Scytalidium thermophilum* SKESMBKU02. **Walailak journal. 13(1):9-22.**
16. S.Santoshkumar, **Edla Sujatha**, and G.krishna 2015. Optimization and characterization of thermostable  $\beta$ -glucosidase by *Scytalidium thermophilum* SKESMBKU02. **Octa journal of Biosciences. 3(1):18-23.**
17. S.Santoshkumar, **Edla Sujatha** and Pabba shiva Krishna 2014. Optimization and characterization of thermostable Endo and Exocellulases by *Humicola sp.* SKESMBKU03. **Science, technology and Arts research journal. 3(4):107-115.**
18. **Edla Sujatha**, S.Santoshkumar and pabba shiva Krishna 2014. Optimization and characterization of cellulases from thermophilic strain *Scytalidium thermophilum*

SKESMBKU01.**Current research in environmental and applied mycology. 4(2):236-249.**

19. S.Santoshkumar, **Edla Sujatha** 2013 Isolation and screening of thermophilic fungi from various thermogenic habitats in Andhra Pradesh. **Int J Pharm Bio Sci. 4(4): (B) 1312 – 1318.**
20. **E.Sujatha**, S.Girisham and S.M.Reddy 2010 Production of pectin lyases by three thermophilic fungi.**Proc. Nat.Acad.Sci.India 80(IV):355-360.**
21. **E.Sujatha**, S.Girisham and S.M.Reddy 2006 Production of lipase by three thermophilic fungi.**J.BasicAppl.Mycol., 5(I&II):12-13.**
22. **E.Sujatha**, S.Girisham and S.M.Reddy 2006 Production of cellulases by three thermophilic fungi.**Bionfolet. 3(1):23-28.**
23. **E.Sujatha**,S. Girisham and S.M.Reddy. 2005 Amylase production by three thermophilic fungi.**J.Mycol.Pl.Pathol., 35:393-398.**
24. **E.Sujatha**, S.Girisham and S.M.Reddy 2005 Incidence of thermophilic fungi in warangal.**J, BasicAppl.Mycol.,4(I&II):168-171**
25. **E.Sujatha**, S.Girisham and S.M.Reddy.2004 Phosphate solubilization by thermophilic microorganisms. **Indian Journal of Microbiology,44**
26. **E.Sujatha**, S.Girisham and S.M.Reddy 2002 production of indole acetic acid and free amino acids by three thermophilic fungi. **Hind.Antibiot.Bull,44:37- 41**
27. S.M.Reddy, S.Girisham and **E.Sujatha** 2000. Thermophilic fungi and their biotechnological application.in plants diseases and biocontrol management (**eds. Sampat Nehra**), Avavishkar publishers, Jaipur, 200pp.38-56.
28. N.Venkateshwarlu, **E.Sujatha** and S.M.Reddy 1999 Interaction of thermophilic fungi. **Proc. National Symposium Fungi in Diversified Habitats.**

#### Completed Research Projects

S. No.	Title of Project	Funding Agency	Amount	Duration
01	Isolation, screening, optimization and strain improvement of thermophilic fungi for cellulases	UGC	11.07Lakhs	3 Years

	production. 126/2011(SR)	(File no: 40-		
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### **International Seminars:**

1. Best Oral presentation award at the 2<sup>nd</sup> International Conference on Clinical and Applied Microbiology organized by BioLEAGUES on 14<sup>th</sup> and 15<sup>th</sup> December 2023 on Characterization Silver nanoparticles from of Endophytic Fungi *Mucor circinelloides* and its Antimicrobial and Anticancer effect.
2. International e-Conference on Advances in Microbial Biotechnology and Biotherapeutics (AMTB – 2020) during 10-12<sup>th</sup> September 2020 organized by Dept. of Microbiology, University College of Science, Osmania University .
3. Recent Advances in Emerging Technologies and Its Impact on Biological Sciences during 23<sup>th</sup> – 24<sup>th</sup> December 2019 Organized by Department of Biotechnology, Vikrama Simhapuri University (Invited Speaker).
4. International Conference on Emerging Biotechnologies during 28<sup>th</sup> – 30<sup>th</sup> January 2016 Organized by Department of Biotechnology, Kakatiya University.
5. International Conference on Biotechnology in Human Welfare attended on 7<sup>th</sup> & 9<sup>th</sup> February 2013. Organized by Department of Biotechnology, Kakatiya University, Warangal (A.P.) INDIA.
6. International Conference on Biotechnology: A Global Scenario on 2nd, 4th November 2010. Organized by Department of Biotechnology, Kakatiya University, Warangal (A.P.) INDIA.
7. International Conference on Recent Advances in Drug Discovery on 22<sup>nd</sup> - 24<sup>th</sup> October, 2010, Organized by University College of Pharmaceutical Sciences, Warangal.

### **National Seminars:**

1. Faculty development program on Fungal Biotechnology: Emerging Trends and

Applications organized by Department of Biotechnology in association with the centre for Training and Learning National Institute of Technology, Warangal during 5<sup>th</sup>-9<sup>th</sup> of August 2024

2. One day National Webinar on “Role of Enzymes and Toxins in Bacterial Pathogenesis” Organized by TSWRDCW Warangal East, Telangana (Invited talk) on 22-04-2021
3. One day National Level Webinar on “Potential Clinical Applications of Plant Based Natural Antioxidants to Combat COVID-19 Infections” Organized by SIR. M.V. GOVERNAMENT SCIENCE COLLEGE OF BOMMANAKATTE, BHADRAVATHI, KARNATAKA. (Invited talk) on 12-11-2020
4. National Seminar on Animal Biodiversity on 28<sup>th</sup> and 29<sup>th</sup> March 2019 organized by Department of Zoology, KU, Warangal
5. One day State Level Seminar on “Environmental Issues and Challenges” jointly organized by the Warangal Regional Centre of Telangana Academy of Sciences and Jana Vignana Vedika, Telangana at NIT Warangal. On 11<sup>th</sup>, January, 2017
6. Two Day National Seminar on “Recent Advances in Microbial Biotechnology” at Department of Microbiology, Kakatiya University, Warangal organized on 30 and 31, March, 2017
7. National Seminar on Ethics in Microbiology Organized by Department of Microbiology, Kakatiya University on 25<sup>th</sup>, July 2015.
8. Learning and Teaching with Scientific Research in Mind JANA VIGNANA VEDIKA A.P on 09/10/2012
9. National seminar on challenges, opportunities and emerging trends in microbial technology on 26<sup>th</sup>& 27<sup>th</sup> organized by Department of Microbiology, Kakatiya University, Warangal.
10. National Seminar on Recent trends in Microbial Technology on 26<sup>th</sup> and 27<sup>th</sup> March 2011 Organized by Dept. Of Microbiology K.U Warangal.



## **Seminars Organized**

1. National Seminar on “Recent Trends in Plant Disease Management” on, organized by Indian Phyto pathological Society, Central Zone, IARI, New Delhi and Department of Microbiology, Kakatiya University on 28<sup>th</sup>, December, 2018.
2. National Seminar on Recent Trends in Plant Disease Diagnosis and Control with Reference to Central India on organized by Department of Microbiology, Kakatiya University on 1<sup>st</sup> and 2<sup>nd</sup> December, 2018.

## **Invited Talks:**

01. Invited talk on Soil Contaminants: Sources, Effects and Approaches for remediation at National Seminar organized by Telangana Social Welfare Residential Degree College for Women (TSHE Sponsored) on 23<sup>rd</sup> and 24<sup>th</sup> January 2024
02. Invited talk in National Webinar on ‘Role of Enzymes and Toxins in Bacterial Pathogenesis’ organized by TSWRDCW Warangal East, Telangana on 22<sup>nd</sup> of April 2021
03. Invited talk on “Synthesis and Characterization of Silver Nanoparticles from Fresh water Cyanobacteria and Evaluation of their Antimicrobial and Cytotoxic Properties” at International conference on Recent Advances in Emerging Technologies and its Impact on Biological Sciences Organized by Department of Biotechnology, VikramaSimhapuri University, Nellore (23&24,December ,2019)
04. Invited talk on “Potential clinical applications of plant based natural antioxidants to combat COVID-19 infections” at National webinar organized by Department of Biotechnology , Sir MV Science college Bommanakatte, Badravathi, Karnataka on 12<sup>th</sup> November 2020
05. Invited Talk on ‘Auto immune disease and their therapeutic measures National Seminar on 10<sup>th</sup>& 11<sup>th</sup> October, 2018. Organized by Department of Microbiology, Telangana Social Welfare Residential Degree College (Women), Kothagudem.
06. Extension Lecture on “Sexual Transmitted diseases” at Pingle Govt Degree and P.G college for Women (10-12-2014).
07. Talk on “Tumor Immunology” for M.Sc students at Govt. Pingle College for women Hanamkonda (05-08-2014)

### **Academic and Administrative posts held:**

01. Board of Studies member – Vaagdevi Degree and PG College 2024
02. Board of Studies member – Siddipet Govt. Degree College (2021-2022)
03. Board of studies chairperson( Dept. of Microbiology)(2020-2022)
04. Head of the Department (Dept. of Microbiology 2018-2020 )(No.238/A2/KU/2018/A0-32).
05. Governing Body of R.D. Women’s Degree College (17/DAA/KU/2014)
06. Member of Sports Board Committee K.U 150/USB/KU/2013
07. Admission committee member
08. Departmental committee Convener **Order No:845/A2/KU/2012/DC/**
09. In charge University Arts and Science College Order no: 505/A2/KU/2011/PT-11

### **Life Membership in Scientific bodies**

1. Association of Microbiologists of India (AMI) ( Life membership no: 3934-2014)
2. The Biotech Research Society India (BRSI) ( Life membership no: 1783)

### **Books Published: 07**

1. **B.Sc. Third year, Microbiology Semester V& VI**, Microbiology, ISBN 978-81-8180-557-7, Telugu Academy, Hyderabad.
2. **B.Sc. Third year, Immunology & Pharmaceutical Microbiology Semester V**, ISBN 978-81-8180-625-3, Telugu Academy, Hyderabad.
3. Kuraganti Gunaswetha\*<sup>1</sup>, **Edla Sujatha**<sup>2</sup>, Human impact on Cyanobacterial evolution and Adaptation in Changing Environments AIRA Academy – Global Science Publishing Group – 2024 DOI: <https://doi.org/10.5281/zenodo.13771781> , 179-203
4. Gunaswethakuraganti, **Sujatha edla**, Swetha Viddamuri, 2023 Review studies on the significance of Cyanobacteria and microalgae to the Environment and Human health that are found in open water bodies, aerosols and terrestrial atmosphere, Global Science

Publishing Group-, 54-69, ISBN: 978-81-952481-1-7 Innovations in Environment, Health and Medical Research.

5. **Sujatha Edla**, Kuraganti G.S., Pallaval V.B. (2020) Cyanobacteria as Biofertilizers: Current Research, Commercial Aspects, and Future Challenges. In: Yadav A., Rastegari A., Yadav N., Kour D. (eds) Advances in Plant Microbiome and Sustainable Agriculture. **Microorganisms for Sustainability, vol 20. Springer, Singapore.** [https://doi.org/10.1007/978-981-15-3204-7\\_11](https://doi.org/10.1007/978-981-15-3204-7_11)
6. **Sujatha E**, Gunaswetha K, Bramhachari P.V., 2020. Current Perspectives on Phosphate-Solubilizing Endophytic Fungi: Ecological Significances and Biotechnological Applications. In: Yadav A., Singh J., Rastegari A., Yadav N. (eds) Plant Microbiomes for Sustainable Agriculture. **Sustainable Development and Biodiversity, vol 25. Springer, Cham**
7. Kuraganti Gunaswetha, **Edla Sujatha** and Pallaval Veera Bramhachari, 2021. Understanding the interplay between Host immune – Microbiome interactions: A state of the art review, **Microbiome in Human Health and Disease**, ISBN 978-981-16-3155-9, **Springer**