

FACULTY PROFILE

TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE (M)
KAMAREDDY

DEPARTMENT OF BOTANY



Name: P.HARITHA

Academic Qualifications: M.Sc. B. Ed, TSSET

Department: Botany

Experience:

Teaching: 16 years

- Started career as Junior Lecturer in Botany, at Sri Sai Vignyan Bharthi Junior College, PadmaRao Nagar, Hyderabad from June to October, 2006.
- As Degree College Lecturer in Botany, at AV College of Arts, Science and Commerce, Domalguda, Hyderabad from November 2006 to August 2019.
- Joined Telangana Tribal Welfare Residential Educational Society as Degree Lecturer in Botany at TGTWRDC Men Sangareddy in August 2019.
- Presently posted at TGTWRDC Men Kamareddy since June 2024.

Administrative experience:

- Vice Principal of TGTWRDC Men Sangareddy from August 2019 to December 2020.
- Officer on Special Duty (OSD) at TGTWREI Society, Head Office in Degree Colleges section from December 2020 till June 2024.

Projects:

- An ongoing Project of Rs.19.20 Lac sanctioned by National Medicinal Plant Board (NMPB), New Delhi for 'Establishment of a Herbal Garden with 100 Species' at TGTWRAFFPA (Sainik School for Tribal Boys) at Ashoknagar, Warangal.

Publications:

Books:

- Co Authored 3 Books-
 1. Ecology and Biodiversity (Botany) ISBN 82-9420-751-7, 2020, Kedarnath Ramnath Publishers, Meerut.
 2. AECC Environmental Science. ISBN 978-93-87697-20-1, 2019, Ishika Book Distributors
 3. Plants in Health Care; ISBN 9789352918713;2018, Published at Kolors

Research Articles:

- Study on Algal Diversity of Two Fresh water bodies of Hyderabad with reference to assessment of water quality using Algal Indices- IJAR, ISSN 2348-666, Vol- , issue 4 April, 2020.
- Campus flora of a Hyderabad College- A Preliminary Report- IJRAR August 2018, Vol 5, Issue 3.

Paper presentations

- Presented a paper on the topic “A REVIEW OF USE OF ICT- THE DIGITAL REVOLUTION IN EDUCATION” in the National seminar on the ‘Ease of doing Business’ in India on 23rd & 24th February, 2018 at Anwar Uloom College, Hyderabad, Telangana.
- Presented a paper on “**Effective Teaching methodology in Sciences**” at a National Conference on “Innovative Practices in Teaching, Learning and Evaluation on 6th, February, 2018 held at A.V.College
- “A study on Flora of a Hyderabad College” at International “Expert Consultation on Education for Conservation” on 16th & 17th October,2012.

Seminars/ workshops conducted/ organized

- A Workshop on ‘Terrarium- Life in a glass bowl’ making for the faculty and students of TGSWRDC Women, Nalgonda on 2nd December, 2022.
- A National Webinar ‘Shristi 2020’ on 16th September, 2020 themed ‘ Ozone Layer depletion and its importance on Human Race’ in collaboration with Dept of Botany of TGTWRDC Women Medak.
- Conducted Science Exhibition in commemoration of Golden Jubilee Celebration of the college.
- Provided certificate training program along with Agri horticulture society for Degree students on “Plant Propagation” on in November,2018
- Organised a seminar talk on E-waste management on 30.07.2018
- Conducted workshop on ‘Home Composting’ on 30.07.2018
- Organised a National workshop on 9th February,2018 on “ Sustainable and Healthy Living”, at A.V.College, Hyderabad.
- A seminar talk by Environmentalist, Jayprakash Nambaru was conducted on 26.07.2016
- A one day state level Seminar “UDDIPAN” On Emerging Trends in Life Sciences on 30th November 2010.
- A 2-Day Intercollegiate Ecofest “Saving the Earth starts with You” on 26th & 27th November 2010. Competitions in 10 categories like Rangoli, Poster Presentation, Art from Waste, Cartoon Drawing, Skit, Essay writing, Elocution, Quiz, Memory test, Best Quotes/ Slogan on various Environmental problems were held.
- A one day workshop on medicinal plants –“Live the Herbal Way” on 11th Feb 2010. Key note address by Mr. Jayprakash Namburi, Founder Green Planet Vision, Hyderabad on ‘Nature for all. Nourishment by all ‘in November 2009.

Seminars/ workshops attended

- International Webinar- ‘Enhancing the value of orphan crops in shaping a sustainable food future- Teff – a new super grain’ by Department of Botany and IQAC, St.Joseph’s College for Women, Alappuzha, Kerla.
- International e Conference – ‘ Nutrition and Health Intervention for pandemic and Post Pandemic Scenarios’ at Sri Sathya Sai Institute of Higher Learning, Anaparthi. On 26th & 27th September, 2020.
- One Week Online FDP ‘ Modern Teaching, Evaluation and Research Methods’ at MSP Mandal’s VinayakRao Patil Mahavidyalaya, Vaijapur from 2nd-7th June, 2020.
- National Webinar ‘Phototherapeutics- Drug Discovery’ at St.Pious X College for Women, Hyderabad on 23rd May 2020.
- National Webinar- ‘Impact of COVID 19 on Biodiversity’ Department of Botany, A.V.College, Hyderabad on 22nd May 2020.
- Attended a Two day National Seminar on ‘The Ease of Doing Business’ on 23rd & 24th, February, 2018.
- National seminar on “Role of Chemistry in Earth and Environmental Science” on 22nd January, 2018. A.V.College, Gaganmahal, Hyderabad.
- Attended a One Day Workshop on ‘ Science, ICT, The Global Classroom’ on 14th September, 2017 at RBVRR Women’s college by Department of Zoology and Microbiology.
- On 24-01-17 attended a One Day Workshop on “DNA Isolation and PCR Amplification” at Little Flower College, Uppal
- Resource persons Training Workshop on “Detection of Adulterants in Food Stuffs”, 4th - 6th October, 2012, College of Home science
- National Seminar “Role of Chemistry in Modern Life” on 28th & 29th June, 2012, A.V.College, Hyderabad.
- National seminar on “Plant biotechnology towards nutrition and nutraceutical potential” Sarojini Naidu Vanitha Mahavidyalaya, Hyderabad on 30th Sep & 1st Oct, 2010,
- National Seminar on ‘Plastics – Boon or Bane’ A.V.College, Hyderabad on 28th August, 2010.
- National Seminar on ‘Advances in Plant Sciences – Current status & Emerging Trends’ P.G. College of Science, Hyderabad on 3rd March 2010.
- National seminar on “Modern trends in plant taxonomy and biodiversity conservation for safeguarding medicinal plant wealth, Sarojini Naidu Vanitha Mahavidyalaya, Hyderabad. 22-23rd December, 2008.
- National Seminar on ‘Green Chemistry’, A.V.College, Hyderabad, 7 – 8th December, 2006.
- Effective Teaching and Research Methods for academic excellence on 14th July, 2015 at A.V. P.G.Centre, Hyderabad.
- National conference on “Innovative practices in Teaching Learning and Evaluation” on 6th February, 2018 by IQAC, A.V.College, Gaganmahal, Hyderabad.

- Attended International Conference on “Green Trends in Environmental Sustainability” at St’Ann’s College for Women, Mehdipatnam on 16th and 17th November, 2016.
- International “ Expert Consultation on Education For Conservation”, COP 11, 16th & 17th October,2012, Hyderabad.
- National Conference on “Current Trends in Medicinal, Aromatic Plants and Plant Products, 17th & 18th March, 2012, Osmania University.

Other roles and responsibilities

As Degree Lecturer

- During COVID 19 time for the benefit of the students prepared 15 Youtube videos on various topics of Botany.
- Created and uploaded 14 PPTs on Slide share.
- Conducted special Online classes using for Degree Students via Microsoft Teams
- Conducted 60 Days Online PG entrance Botany Coaching for Degree Students.
- 2 TSAT Classes for Final Year students.

As OSD, Degree Colleges

- Achieved in grant of 2f UGC status to (21) Degree Colleges under TGTWREI Society.
- 18 NCC units on FSFS basis in 7 Men and 11 Women Colleges
- Organized Subject Forums to all faculty of Degree Colleges
- Organized 3 Orientation Programs on First Cycle of NAAC of 21 Degree Colleges with help of Prof Rajashekar and Prof Rajgopal, Professor Emeritus of Hyderabad Central University and Dr.Madhusudhan, GDC Siddipet.
- Organized Training Programs on NAAC at MCRHRD, Hyderabad.
- Worked on 2nd Edition of TGTWREIS Journal Volume 2.
- Jury member for Shrishti 2023- National Science Day Celebrations 28.2.2023 at Andhra Mahila Sabha Arts,Science College for Women, Hyderabad.

FACULTY PROFILE

TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE

(M) KAMAREDDY

DEPARTMENT OF BOTANY



Name: Dr. AGURLA SRINIVAS

Academic Qualifications: M.Sc. B. Ed. Ph.D. (2018)

RESEARCH AND TEACHING EXPERIENCE

(Total Teaching experience: 10 years)

- Worked as a High school teacher at Prathibha Vidyanikethan, Choppadandi, from June 1st 2005-March 30th 2008.
- Worked as a Research Associate at University of Hyderabad from March 8th 2017-June 1st 2018, under the supervision of Prof. A.S. Raghavendra in a project entitled “Role of proline in protection of photosynthesis under highlight and oxidative stress”.
- Worked as a Senior Lecturer (SL) in the Telangana Tribal Welfare Residential Junior college (TTWR COE PVTG (B) HAYATHNAGAR), under the Government of Telangana from June 1st 2018 to July 24th 2024.
- Presently working as Degree Lecturer at Telangana Tribal Welfare Residential Degree College TTWRDC (M) Kamareddy, under the Government of Telangana from July 24th 2024.

PUBLICATIONS

Book Chapters

1. **Agurla S**, Gahir S, Murata Y and Raghavendra AS (2018) Mechanism of stomatal closure in plants exposed to drought and cold stress. In *Survival Strategies in Extreme Cold and Desiccation* (pp. 215-232). Springer, Singapore.

2. **Agurla S**, Gayatri G, Raghavendra AS (2017) Signal transduction components in guard cells during stomatal closure by plant hormones and microbial elicitors, in Mechanism of Plant Hormone Signaling under Stress (ed G. K. Pandey), *John Wiley & Sons, Inc.*, Hoboken, NJ, USA.
3. **Agurla S**, Gayatri G, Raghavendra AS (2016) Nitric oxide (NO) measurements in stomatal guard cells. *Methods Mol Biol* 1424: 49-56.

Research Articles

4. **Agurla S**, Sunitha V, Raghavendra AS (2020) Methyl salicylate is more effective than salicylic acid to induce stomatal closure and raise the levels of ROS and NO in *Arabidopsis thaliana* guard cells *Plant Physiology and Biochemistry* 157: 276-283.
5. **Agurla S**, Gayatri G, Raghavendra AS (2018) Polyamines increase nitric oxide and reactive oxygen species in guard cells of *Arabidopsis thaliana* during stomatal closure. *Protoplasma* 255: 153-162.
6. Gayatri G, **Agurla S**, Kuchitsu K, Anil K, Podile AR, Raghavendra AS (2017) Stomatal closure and rise in ROS/NO of Arabidopsis guard cells by Tobacco microbial elicitors: Cryptogein and Harpin. *Front Plant Sci* 8: 1096.
7. **Agurla S**, Raghavendra AS (2016) Convergence and divergence of signaling events in guard cells during stomatal closure by plant hormones or microbial elicitors. *Front Plant Sci* 7: 1332.
8. Puli MR, Rajsheel P, Aswani V, **Agurla S**, Kuchitsu K, Raghavendra AS (2016) Stomatal closure induced by phytosphingosine-1-phosphate and sphingosine-1-phosphate depends on nitric oxide and pH of guard cells in *Pisum sativum*. *Planta*. 244: 831-41.
9. **Agurla S**, Gayatri G, Raghavendra AS (2014) Nitric oxide as a secondary messenger during stomatal closure as a part of plant immunity response against pathogens. *Nitric Oxide: Biology and Chemistry* 43: 89-96.
10. Gayatri G, **Agurla S**, Raghavendra AS (2013) Nitric oxide in guard cell as an important second messenger during stomatal closure. *Front Plant Sci* 4: 1-11.

PRESENTATIONS (ORAL/POSTER) AT INTER NATIONAL CONFERENCES

1. **Srinivas Agurla**, and Agepati S. Raghavendra. "Importance of reactive oxygen species (ROS) and nitric oxide (NO) during stomatal closure by polyamines in *Arabidopsis thaliana*" 8th International Conference on **Photosynthesis and Hydrogen Energy Research for Sustainability-2017**", conducted by University of Hyderabad, Hyderabad. October 30th - November 4th, 2017 (**Achieved the best poster award**).
2. **Srinivas Agurla** and Agepati S. Raghavendra. "Role of reactive oxygen species (ROS) and nitric oxide (NO) in guard cells of *Arabidopsis thaliana* during stomatal closure by

polyamines” conducted by Okayama University, Japan under “**JST-SAKURA Youth Exchange Programme**” during 4th September 2017 to 11th September 2017 (**Oral presentation**).

3. Agepati S. Raghavendra and **Srinivas Agurla**. Rise in levels of reactive oxygen species and nitric oxide by polyamines in guard cells of Arabidopsis thaliana. “**American Society of Plant Biology-2016**” Austin, Texas. July 9-13th, (2016) (**Poster presentation**).
4. **Srinivas Agurla**, and Agepati S. Raghavendra. Polyamines induce stomatal closure and increase reactive oxygen species and nitric oxide levels in Arabidopsis thaliana stomatal guard cells. “**3rd International Plant Physiology Congress (IPPC-2015)**” Jawaharlal Nehru University, New Delhi. December 11-14th, 2015 (**Poster presentation**).
5. **Srinivas Agurla**, Gunja Gayatri and Agepati S. Raghavendra. Effect of salicylic acid and its esters (acetylsalicylic acid and methyl salicylate) on stomatal closure and increase in reactive oxygen species, nitric oxide in Pisum sativum guard cells. “**International Symposium on Plant Signaling and Behavior-2014**”, organized by Department of Botany, University of Delhi, March 7-10th, 2014 (**Poster presentation**).
6. Attended **International Conference on Green Energy Technologies: Challenges in Research and Human Development**, organized by Pondicherry University, Pondicherry. March 23-25th, 2010.
7. Attended one day symposium on “**Mass spectrometry, Scanning electron microscope, NMR, UV-Spectrometry** held at Pondicherry University, Pondicherry on 5th March, 2010.
8. Presented poster in **Indo-Japan Joint Workshop** organized by Department of Botany, University of Delhi, March 7-10th, 2013.
9. Participated in international seminar on **Green technology** and national seminar on **Bio-informatics and novel technologies** conducted by Pondicherry University.
10. Given oral presentaion in **Bioquest 2015** and **A.P. Science Congress 2013** conducted by University of Hyderabad.

SEMINARS/WORKSHOPS ATTENDED

- Participated and presented research work in Annual events “**Plant Science Colloquium-2012, 2013, 2015, 2017**”, conducted by Department of Plant Sciences, University of Hyderabad. Telangana, India.
- Participated in **National seminar on “Molecular Modeling and Drug Design”** organized by Pondicherry University, Pondicherry. October 14-16th, 2008.
- Attended hands on training on **Genomics work shop for quantitative PCR and Microarray**, organized by School of Life Sciences, University of Hyderabad, Telangana, from 07th February 2012 to 10th February 2012.

AWARDS/SCHOLARSHIPS/MERITS

- Achieved **“Outstanding Achievement Award”** in **“8th International Conference “Photosynthesis and Hydrogen Energy Research for Sustainability-2017”**
- Invited for **“Japan-Asia youth exchange program”** in Science conducted by **“Japan Science and Technology Agency (JSTA)”** (visited Okayama University, Japan for Oral presentation during 4 to 11th September 2017).
- Selected for **Young Scientist presentations** by **TWAS (The World Academy of Sciences for the advancement of science in developing countries-Regional Office for Central & South Asia (TWAS-ROCASA)**, during December 21-22, 2015.
- **Qualified Council for Scientific and Industrial Research (CSIR-Junior Research Fellowship-National Eligibility Test (CSIR-JRF-NET) (CSIR-Dec 2010)**. A national open competitive entrance exam organized by CSIR and University Grant Commission (UGC) together for graduate fellowship for the period of 5 years to pursue graduate (Ph. D) studies in India.
- Qualified and secured **86 percentiles** in **GATE (Graduate Aptitude Test)-2011**.
- Selected for **Student fellowship** in M. Sc. from the Department of Biochemistry and Molecular Biology by PCU entrance examination (July 2008-May 2010).
- Achieved **Merit scholarship** from Pondicherry University during the year 2008-2010.

FACULTY PROFILE

Telangana Tribal Welfare Residential Degree College (M), Kamareddy

Department of Botany

Name: Dr. Bhukya Mohan

Academic Qualification: M.Sc, Ph.D, TS-SET, AP-SET, PGDCA

Experience:

Teaching: 10 years

- Worked as Lecturer at University College of Science Saifabad, Osmania University, Hyderabad (2012-2019)
- Working as Degree Lecturer at TTWRDC(M), Kamareddy (2019 -)

Publications:

Books And Chapters:

- Plant Anatomy (chapter) for Degree students

Journals:

S.NO	Publications	year
1	Phytochemical studies and antibacterial activity of <i>Decalepis hamiltonii</i> Wight & Arn, an endangered medicinal plant	2014
2	Larvicidal activity of <i>Rauvolfia serpentina</i> L. fruits against <i>Aedes aegypti</i> Mosquito larvae	2015
3	Phytochemical screening, GC-MS analysis of <i>Decalepis hamiltonii</i> Wight & Arn. An endangered medicinal plant	2016
4	Antioxidant Activity and Micropropagation Studies of <i>Decalepis hamiltonii</i> An Endangered Medicinal Plant	2016
5	Genetic Diversity and Similarity Studies in different Accessions of <i>Decalepis hamiltonii</i> by Random Amplified Polymorphic DNA (RAPD) Analysis	2018

Paper Presentations: Genetic Diversity and Similarity Studies in different Accessions of *Decalepis hamiltonii* by Random Amplified Polymorphic DNA (RAPD) Analysis

Seminars conference/ workshops/ FDP attended:

S.NO	Conference/ FDP	Year
1	UGC sponsored National Conference on Modern Trends in Plant Taxonomy and Biodiversity Conservation for Safeguarding Medicinal Plant Welfare	2008
2	UGC –SAP Programme on Current trends in Medicinal, Aromatic Plants and	2012

	Plant Products	
3	National Conference on Decaling interest in Science Education and Research among students: Reasons and Remedies	2013
4	National Conference on Emerging Research Trends in Plant Science in 21 st century UGC SERB-DST	2015
5	National Conference on New Frontiers in Medicinal Research (NCMP)	2015
6	National Conference on Molecular Insights in Genetics and Biotechnology emerging trends and future prospects	2017
7	National level conference on research with innovative ideas pharmaceutical education, health care and life sciences	2017
8	How to access and use E-journals subscribed by Osmania University	2013
9	Seminar on HPLC	2018
10	UGC sponsored workshop-cum-orientation programmed on BMC formation and PBR Preparation of Biodiversity in Telangana state	2017
11	International conference on Integrative biology and Applied Genetics (ICIBAG)	2018
12	Certification of publication from International journal of Scientific Research in Science and Technology	2018
13	National level e-quiz on Botany organized by TTWRDC(W), Suryapet	2020
14	Online quiz in connection with World Microbiome Day organized by TTWRDC(W), Medak	2020
15	Webinar on Guidance Towards Preparedness for Accreditation of HEI by GDC, Khairathabad	2020
16	Online quiz on Genetics and Plant Physiology by GDC, Patancheru	2020
17	National level online quiz on role and importance of medicinal plants by Bichkunda, Kamareddy	2020
18	State level quiz Embrology by Govt Model Degree College, Yellareddy	2020
19	National level e-quiz on IMPACT OF COVID-19 ON TRADITIONAL EDUCATION SYSTEM Organized by TSWRDC(W), L.B.Nagar	2020
20	Online quiz on World Nature Conservation Day conducted by DOB,M.A.L.D GDC,Gadwal	2020
21	National webinar on International Day for the preservation of Ozone Layer by TTWRDC Medak and Sangareddy	2020
22	National webinar on Role of Botanical Survey of India in Biodiversity Conservation organized by BSI, DRC, Hyderabad	2020
23	Webinar on Biotechnology Approaches for the conservation of Medicinal Plants organized by TTWRDC(M), Karimnagar	2021
24	E-quiz conducted on the occasion of World no Tobacco Day by TTWRDC(W), Nizamabad	2021
25	Webinar on sacred groves of India-Myths, Beliefs and Biodiversity Conservation Organized by TSWRDC(W), L.B.Nagar&BSI	2021
26	Webinar on Proteomics where we are and where we are going organized by the Indian women scientists association supported by BRNS-DAE	2021
27	FDP by TTWREIS, Hyderabad	2021
28	DBT Star College Scheme sponsored, Awareness Programme on Herbal Preparation and Utilization against COVID-19 for College Teachers	2022