

## Dr Zehra Siddiqui

Dr Zehra Siddiqui M.Sc., Ph.D Osmania University  
Specialisation: Molecular Genetics, Cytogenetics, Tissue Culture & In-vitro Technologies  
Asst Professor (PTL)  
Dept of Botany  
University College of Science, Saifabad-OU  
Hyderabad-500004, TS-India

Mobile # 9573456535

Email Id: [zehrabotany@gmail.com](mailto:zehrabotany@gmail.com)

### Academic & Professional Credentials: **Teaching & Research Experience**

➤ Assistant Professor (PTL) Department of Botany  
University College of Science, Saifabad(A University Accredited A+ by NAAC,Category-I:Graded Autonomy by UGC) Constituent College of Osmania University-Hyderabad-TS

(Since September 2016 to Till Date) December'2023

- Asst Professor, Dept of Botany, Anwarul-Uloom PG College, Mallepally (Autonomous-OU Affiliated & NAAC Accredited 'A' Grade (2015 to 2016) Hyderabad.
- Associate Professor in Joginpally B. R. Engineering College, 2007 to 2015 Yenkapally, Moinabad, Hyderabad.Approved by AICTE & JNTU affiliated. classes handled for B.Tech & M.Tech Biotech students.
- Assistant Professor in Botany Dept, Nawab Shah Alam Khan PG College and Research Centre, affiliated to OU, 2005 to 2006
- Research Associate in AP-Nether Lands BioTechnology Project Tissue Culture Lab ARI, ANGRAU Rajendranagar, Hyderabad – 500 030, India, (2001-2004), Project Entitled as “Micro-Propagation of *Annona squamosa*, *Phyllanthus emblica* & *Tamarindus indica*” (AP-NL Netherlands Biotechnology Programme) MoU tie-up with IPE/BTU-Institute of Public Enterprises/Biotech Unit-OU Campus. Coordinator & Professor-Dr G.Pakki Reddy. Micropropagation Protocols standardisation for optimum mass propagation, presentations of annual project reports, monitoring & recording field-growth & statistical data analysis.

- Senior Research Fellow (SRF):National Research Centre for Sorghum(AICSIP-ICAR)) 2000 to 2001(NRCS) Rajendranagar, Hyderabad-500030,India -Work responsibilities allocated:“Regeneration, evaluation, documentation and maintenance of *Sorghum vulgare* Germplasm”.
- Faculty Member in Amrat Kapadia Navjivan Womens PG College, Ramkote, 1995-1998 Department of Botany, affiliated to OU, Hyd, India.

### **Ph.D., Research Publications**

- 1) Role of Anti-Oxidants in the Elimination of Phenolic Compounds from the In-vitro cultures of *Psidium guajava* L. *Advances in Plant Sciences JR.*9(2): 155-158, 1996- ISSN:0970-3586.
- 2) High Efficiency Clonal Propagation of *Carica Papaya* L. under In-vitro conditions through epicotyl explants. *Advances in plant sciences Journal*-12 (II) 341-344, 1999- ISSN:0970-3586
- 3) Hormonal Requirements for Callusing & Regeneration in different Explants of *Carica Papaya* L. A Multidisciplinary Intl Jr of Science: *Mendel* (Mendelian Society of India) 12 (1 – 4), 15 – 17, 1995 ISSN:0970-9649
- 4) Tissue Culture Studies on the Nodal Explants of *Psidium guajava* L. (*Guava*) Indian *Journal of Horticulture* ,Volume-54 (4), 276 – 279, 1997. Horticultural Society of India.

### **Research Paper publications in Peer Reviewed International Journals with Good Impact-Factor**

1. Physiological and molecular analysis of GQ-25, A Promising genotype for nitrogen use efficiency. *Progressive Research*-An International Journal. Volume:10 (Special –II), 651-656, 2015. Print: ISSN:0973-6417, Online:2454-6003. Authors: Siddiqui Zehra Moiz, B. Srikanth et.,al.
2. Physiological and Molecular characterization of three Rice: *Oryza sativa* genotypes with differential nitrogen use efficiency- *Asian Journal of Bioscience*. Vol:II, Issue:1, 162-171, April 2016. ISSN: 0976-8343.Accredited by NAAS. Authors: Siddiqui Zehra Moiz, B. Srikanth et al.,

### **PPT/ Poster Presentations & Contributed Research Abstracts**

1. Paper entitled "Effects of Hormones & Maturity of Fruits towards In-Vitro Callus Induction and Establishment of *Psidium Guajava* L. Fruit Epicarp" contributed the paper in Congress on "In-Vitro Biology", held at Washington D.C.,(14 to 17 June, 1997).

2. Poster Presentation: entitled "Micro-Propagation as an Aid to Rapid Cloning of *Carica Papaya L.* through Nodal Explants" presented the paper in the 85th Session of Indian Science Congress held at Osmania University, Hyderabad, India (3 to 7 January, 1998).
3. Paper entitled "High Efficiency Clonal Propagation of *Carica Papaya L.* under in-vitro conditions through Epicotyl Explants" (contributed abstract) in: world congress on In-vitro Biology, held @ San Francisco, California (22 to 27 June, 1999).
4. Paper entitled "Tissue Culture Studies on the Nodal Explants of *Psidium Guajava L.* (Guava)" (contributed abstract): in world congress of in-vitro Biology, held @ Denver, Colorado (20 to 24 May, 1995).
5. Poster Presentation entitled "Role of Anti-Oxidants in the Elimination of Phenolic compounds from the In-Vitro Cultures of *Psidium Guajava L.* (Guava)" presented the paper in International Conference on Bio-Diversity, Environment & Sustainable Development" held @Osmania University, Hyderabad, India (4 to 6 October, 1995).
6. "Micro-Propagation through Nodal Explants of *Carica Papaya L.*" presented the paper in:National Symposium on "Current Trends in Plant Sciences Research, Dept of Botany, Osmania University, Hyderabad, India (11 to 12 March, 1995).

#### **Reviews in Academic -Institutional, State & Interstate Journals**

1. Paper published in: JBREC Research Review Journal Vol- I No:I, entitled as : Cell Phones- Radiations effect on human health“ mobile a friend or a foe” (Oct’2013).
2. A Review article entitled as: Biofortification practices in Pulses published in 2016 in Anwarul Uloom PG College Institutional Journal.
3. Anveshana Educational & Research Foundation in association with Shri JYT University, Rajasthan. A Review Article, entitled as: Bio-Piracy: A Threat to Medicinal Plants, Conservation & Patenting-A Review Study, 4<sup>th</sup> February’2017.
4. A Two-Day National Conference on “New Horizons in Applied Plant Sciences Research & its Impact on Human Welfare’ 30-31<sup>st</sup> 2018, organised by Anwarul-Uloom PG College in Collaboration with ICFRE. communicated a Short Review Abstract, entitled as: “Forensic Botany-An Expanding Branch of Science In Forensic Investigation”.

## **Honoured Administrative & Academic Achievements**

1. Member (BoS) Board of Studies In Botany, Osmania University-Representing Anwarul-Uloom PG College (2015-2016)
2. Member for Departmental Research Committee for NAAC Inspection: In Anwarul-Uloom P.G College, allocated for Accreditation-related work, New-Delhi(2015)
3. JNTU-Ratified in 2011 cited letter no .RP/PVT/Selections/2011 dated:30-07-2011. Co-Supervisor for 1 Ph.D. Student Registered in 2011 in JNTU affiliated college-JBREC (completed Ph.D.) presently working in ICRISAT as a Post-Doctoral Fellow.
4. Awarded Certificate of appreciation in recognition of significant & valuable contribution towards NAAC accreditation process (Second Cycle) in academic year-2016-17. In Anwarul-Uloom College, Hyderabad an Autonomous Institution-affiliated to Osmania University.

### **Contributed as Co-Author & Co-Editor for 5 Books of Academics Published By –Ukaaz Publications, Hyderabad (2006) :**

1. *Emerging Trends in Biotechnology* : ISBN : 81-88279-35-8
2. *Basic Concepts of Biotechnology* : ISBN :81-88279-33-1
3. *Advances in Biotechnology* : ISBN : 81-88279-34-X
4. *Modern Concepts in Biotechnology* (2006) ISBN: 81-88279-36-6
5. *Essentials of Biotechnology* (2006) ISBN: 81-88279-32-3

**Participated, Contributed & Attended Different National & International Conferences, Seminars, Workshops, FDP's, Guest Lectures, Trainings & Forum:**

- 1) National Conference on "Biomarkers for diseases-prospects & challenges. 24<sup>th</sup> and 25<sup>th</sup> Feb'2012. Hyderabad.
- 2) BioAsia '2012 the Global Bio-Business Forum, 9-11<sup>th</sup>, February'2012, HICC-Hitech International Convention Centre, Hyd, India.
- 3) National Conference on Re-Discovery of Importance of Herbal Plants and their Applications, 14<sup>th</sup> & 15<sup>th</sup> September-2012, CESS- Centre for Economic and Social Studies, Ameerpet Hyderabad.
- 4) Attended WIPRO's, Faculty Development Workshop on: "High Impact Teaching Skills" conducted from 14<sup>th</sup> Feb-18<sup>th</sup> Feb '2012 (Session-1) & 9<sup>th</sup>-10<sup>th</sup> April '2012. (session-2). JBREC-Moinabad.
- 5) Workshop attended, conducted by IIT Bombay on: Teaching & Research Methodologies in Education. Organised by Dept of Biotechnology, Joginpally Bhaskar Rao Engineering College, Moinabad-2011 (ISO-9001 Certification).
- 6) Attended One Day National Seminar on Biodiversity for Sustainable Life a Concern for Conservation of Natural Reserves on 12<sup>th</sup> April 2016 in Saifabad Science College, Osmania University, Hyd.
- 7) Attended, Online Faculty Development Programme Entitled as : Research Computing- The Enabling Role of Information Technology. Organised by Anwarul Uloom P.G. College, Dept of Botany. 16<sup>th</sup> February'2022
- 8) Attended training programme on Forest Genetic Resource & Assessment and Conservation 1<sup>st</sup> -3<sup>rd</sup> March'2016 IFB: Institute of Forest Biodiversity" Sponsored by Ministry of Environment, Forests and Climate Change", Hyderabad.
- 9) Participated in one day Seminar on 30 Aug' 2016, " Present Status of Higher Education and Science & Technology", conducted by Dept of Botany, Osmania University.
- 10) One-Day National Seminar on 12<sup>th</sup> April'2016, " Biodiversity for sustainable life-A concern for Conservation of Natural Reserves. (Oral Presentation) UCSS.
- 11) Participated in a two day National Seminar on "Pulses -2016: Innovative Approaches for Sustainability in Production & Promotion of Utilization", 21 & 22 Oct'2016, conducted by University College for Womens, koti- Osmania University.
- 12) Attended International Conference on "Green Trends In Environmental Sustainability-ICGTES' on 16 & 17<sup>th</sup> December'2016, Conducted by St. Ann's College for Women affiliated to OU.-Hyd
- 13) Delivered a Guest Lecture in Anwarul Uloom P.G. College on topic entitled as " In-Vitro Plant Propagation and its Applications". on 12<sup>th</sup> October '2010.
- 14) Plant Science Research: Current Status & Future Challenges: Two Day Seminar on 7<sup>th</sup> & 8<sup>th</sup> December'2017, Organised by Department of Botany, UCSS, OU, Hyderabad-TS

- 15) Green Trends, A 2-Day National Conference on 16<sup>th</sup> – 17<sup>th</sup> December' 2017, Organised by :St. Ann's College, Autonomous, affiliated to Osmania University
- 16) Guest Lecture on, "Invitro Techniques & its Applications", on 12<sup>th</sup> October'2010, In: Dept of Botany, Anwarul Uloom PG College-OU affiliated.
- 17) Science Academy Lecture Workshop on Plant Taxonomy: Aims & Perspectives, 2<sup>nd</sup> & 3<sup>rd</sup> November'2016 Organised by:Dept of Botany- Anwarul Uloom PG College.
- 18) A Two Dy Seminar on: "Innovative Approaches for Sustainability In Production & Promotion of Utilisation" (2016): PULSES, 21 & 22 October' 2016- University College for Women-Kothi, Autonomous & A Constituent College-OU, Hyd-TS.
- 19) Role of Women in Different Capacities for Nation's Progress, conducted on 29<sup>th</sup> March'2019(One Day National Seminar) conducted by University college of science, saifabad-OU.
- 20) Forest Genetic Resource Assessment & Conservation sponsored by: MoEFCC, 1<sup>st</sup> to 3<sup>rd</sup> March'2016 at IFB. Institute of Forest Biodiversity (ICFRE) Dulapally, Hyderabad.
- 21) One Day Seminar on: "Present Status of Higher Education", Science & Technology In India, 30<sup>th</sup> August'2016, Organised by: Dept of Botany, Osmania University.
- 22) A Two- Day National Conference on Rediscovery of Importance of Herbal Plants & their applications. MGNIRSA, 14<sup>th</sup>-15<sup>th</sup> September'2012.
- 23) MUVVA Bio-Solutions Pvt Ltd. A Workshop in Bio-Informatics, on Importance of Structural Bioinformatics In Drug Design, 2<sup>nd</sup> & 3<sup>rd</sup> November'2011.
- 24) A Two day National Webinar on Recent Advances of Plant Sciences, conducted on 23<sup>rd</sup> & 24<sup>th</sup> November'2021-organised by Govt College for Women, Chirala, Prakasham District.
- 25) National Online Faculty Development Program " Research Computing" : The Enabling Role of Information Technology, 15<sup>th</sup> – 16<sup>th</sup> February' 2022. Anwarul Uloom PG College-OU (Autonomous) organised by: Dept of Botany In Collaboration with Dept of Computer Science.
- 26) A Two Day National Conference, CESS, Conducted from 14<sup>th</sup> -15<sup>th</sup> February'2012.
- 27) National Seminar on Biodiversity 12<sup>th</sup> April'2016, University College of Science, Saifabad-OU
- 28) Institute of Forest Biodiversity IFB, Work-shop & Training Attended, Dulapally 1<sup>st</sup>-3<sup>rd</sup> March'2016
- 29) MISSION 10X Workshop on: High Impact Teaching Skills , attended organised by JBREC, in collaboration with Dale Carnegie Training & WIPRO-Moinabad, 14<sup>th</sup> -15<sup>th</sup> February'2012- WIPRO
- 30) International Seminar on: Inspire Scientific Research, Empower Science & Technology- ISREST'2017-Anwarul Uloom P.G College, OU- affiliated.
- 31) 14) One Day National Seminar on: "Recent Advances & Challenges in Horticulture" by Department of Botany, Anwarul-uloom P.G College, Mallepally-22<sup>th</sup> February'2020.
- 32) 2-Day National Conference on New Horizons in Applied Plant Sciences, Research & its Impact on Human Welfare(NHAPSRIHW 2018)30<sup>th</sup> & 31<sup>st</sup> October'2018 organised by Dept of Botany

Anwarul-Uloom College, in association with IFB-ICFRE( Ins. of Forest Biodiversity-Indian Council of Forestry, Research & Education.

- 33) Agroforestry Vs Productivity, Climate Change, Mitigation & Adaptation on 30<sup>th</sup> September'2015. Dept of Botany, AUC & IFB, Dulapally, Hyd-Participated as Delegate in: Training cum Workshop.
- 34) 'Faculty Development Programme' organised on 23<sup>rd</sup> December'2015, in Chemistry & Environment. Dept of Botany, AUC
- 35) Hands on training-rDNA Technology 16<sup>th</sup>-18<sup>th</sup> September'2013 in Dept of Genetics, Osmania University under CAS-II Programme
- 36) Enbios'2012-JBREC, Coordinator in A Two Day National Level Symposium on March 21<sup>st</sup> & 22<sup>nd</sup> '2012-participated in the Event & Awarded as Best-Coordinator in the Department.
- 37) Mission 10X- 14<sup>th</sup> & 15<sup>th</sup> February'2012, Dale Carnegie Training. A Workshop on High Impact Teaching Skills. Organised by JBREC, Yenkapally- Moinabad.
- 38) A Two Day National Conference on Biodiversity and Human Health: on the occasion of Osmania University Centenary Celebrations in Association with Telangana State Medicinal Plant Board, Organised by Dept of Botany, Nizam College-OU, on 17<sup>th</sup> & 18<sup>th</sup> November'2017
- 39) One Day Seminar on "Stress Management Through Ayurveda" on 2<sup>nd</sup> February'2023, conducted by Department of Botany, University College of Science, Saifabad-OU
- 40) Online Lecture Series on topic" Establishment of Research & Development Cell in Higher Education Institution, 23 August'2022, conducted by MRP-UGC New Delhi
- 41) 2-Day National workshop on Cyber Hygeine & Cyber Security-Formulas for Safe Future conducted on 19<sup>th</sup> & 20<sup>th</sup> October'2022, conducted by Women Cell & Womens Study Center in collaboration with Cyber Jagrithi & Safety Foundation.
- 42) Sri Venkateshwara College of Engineering, Anna University, Chennai, Tamilnadu. Dept of Biotechnology, participated : 5 days QTP/FDP on evolving trends in Biotechnological Research from 27<sup>th</sup> -31<sup>st</sup> July' 2020, organised by Dept of Biotechnology.
- 43) A 3-Day Virtual International Conference on Innovation for New Normal , 23<sup>rd</sup>-25<sup>th</sup> August'2020 : organised by Govt Degree College, Parkal, Warangal, TS affiliated to Kakatiya University, Warangal-TS
- 44) Veridian Microlab-Golden Jubilee Biotech Park for Womens Society. Webinar on Resource Management & Vermicomposting on 13<sup>th</sup> August'2020 conducted by Veridian Microlab Kanchipuram District.