

Curriculum Vitae

Dr Zehra Siddiqui M.Sc. Ph.D., Osmania University

Specialisation: Molecular Genetics, Cytogenetics, Biotechnology, Tissue Culture & In-vitro Technologies

Assistant Professor (PT) Dept of Botany

University College of Science, Saifabad-OU

Teaching & Research Experience:

1. Currently working as Assistant Professor (PT) in Department of Botany University, College of Science, Saifabad (University Accredited A+ by NAAC, Category-I: Graded Autonomy by UGC) A Constituent College of Osmania University Hyderabad-TS, working since September'2016 to till date December'2024

2. Asst Professor, Dept of Botany, Anwarul-Uloom PG College, an Autonomous Institution, affiliated to Osmania University, Accredited 'A' Grade by NAAC 2015- 16 Hyderabad.

3. Asst Professor Biotech Dept. Joginpally B. R. Engineering College, 2008-15 Moinabad-JNTU affiliated.

4. Assistant Professor in Botany Dept, Nawab Shah Alam Khan PG College & Research Centre, affiliated to OU, 2005-06

5. Research Associate Tissue Culture Lab ARI, ANGRAU Rajendranagar, Hyderabad 2001-04, Project: MicroPropagation of *Annona squamosa*, *Phyllanthus emblica* & *Tamarindus indica*" AP-NL Netherlands Funded project MoU tie-up with IPE/BTU-Institute of Public Enterprises/Biotech Unit-OU Campus. Coordinator: Professor Dr G.Pakki Reddy. Protocols standardised for optimum mass propagation, presentations of annual project reports, monitoring & recording field-growth & statistical data analysis.

6. Senior Research Fellow SRF-NRCS: National Research Centre for Sorghum(AICSIP-ICAR) 2000-01, Rajendranagar, Hyderabad work responsibilities allocated: Regeneration, evaluation, documentation and maintenance of *Sorghum vulgare* Germplasm.

7. Faculty Member: Amrat Kapadia Navjivan Womens PG College, Ramkote, 1995-98 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*) *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.,

Contributed & Presented Research Abstracts

1. "Effects of Hormones & maturity of fruits towards In-Vitro Callus Induction and Establishment of *Psidium Guajava L.* Fruit Epicarp" World Congress conducted by SIVB: Society for In-Vitro Biology 14th-17th June 1997.
2. Micro-Propagation as an Aid to Rapid Cloning of *Carica Papaya L.* through Nodal Explants" 85th Session of Indian Science Congress Osmania University Hyderabad India 3rd -7th January 1998.
3. "High Efficiency Clonal Propagation of *Carica Papaya L.* under in-vitro conditions through Epicotyl Explants Organised by "Society for Invitro Biology, 22 to 27 June, 1999.
4. Tissue Culture Studies on the Nodal Explants of *Psidium Guajava L.* (Guava) world congress Society of in-vitro Biology, 20- 24 May, 1995.
5. Role of Anti-Oxidants in Elimination of Phenolic compounds from In-Vitro Cultures of *Psidium Guajava L.* (Guava) International Conference on Bio-Diversity, Environment & Sustainable Development 4-6 October, 1995 Osmania University Hyderabad India.
6. "Micro-Propagation through Nodal Explants of *Carica Papaya L.* National Symposium on "Current Trends in Plant Sciences Research, Dept of Botany, Osmania University, Hyderabad, India 11-12 March, 1995.

Reviews & short paper communicated In: Institutional, State & Interstate Academic Journals :

1. JBREC Research Review Journal Vol- I No:I, Cell Phone Radiations Effect on Human Health- Mobile A Friend or Foe, published In: Issue of October'2013.
2. Biofortification Practices in Pulses, In: Institutional Journal of Anwarul Uloom Post Graduate College, published in Issue of 2016.
3. Anveshana Educational & Research Foundation in Association with Shri JIT University, Rajasthan. Bio-Piracy: A Threat to Medicinal Plants, Conservation & Patenting- A Review Study, 4th February'2017.
4. A Two-Day National Conference on "New Horizons in Applied Plant Sciences Research & its Impact on Human Welfare" 30th-31st October, 2018, organised by Dept of Botany 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-Represented Anwarul-Uloom PG College (2015-2016)
2. Member for Departmental Research Committee for NAAC Inspection: In Anwarul-Uloom P.G College, allocated 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 working in ICRISAT as Junior Scientist.
4. Awarded Certificate of appreciation in recognition of significant & valuable contribution towards NAAC accreditation process (Second Cycle) in academic year 2016-17. Anwarul-Uloom College, Hyderabad an Autonomous Institution-affiliated to Osmania University.
5. Awarded best coordinator towards conducting several workshops & Seminars in JBREC Institution.
6. Awarded Certificate of Appreciation in recognition of significant role as Incharge Coordinator towards guiding, conducting & organising Biotech, B.Tech & M.Tech Technical Reports & Project thesis.2011-13.

Co-Editor & Co-Author for Books of Academics, Ukaaz Publications, Hyderabad (2006-07)

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
6. *Role of Biotechnology in Medicinal & Aromatic Plants*, Vol:XV(2007)ISBN 10:8188279390

List of Conferences, Seminars, Workshops, Trainings & Faculty Development Programs Participated:

1. A Two Day National Conference, on “Biomarkers for Disease-Prospects & Challenges” 24th-25th Feb’2012 In CESS-Centre for Economic and Social Studies, Ameerpet Hyderabad.
2. BioAsia-The Global Bio-Buisness Forum, 9th-11th February’2012, HICC-Hitech International Convention Centre, Hyd India.
3. Two Day National Conference on Re-Discovery of Importance of Herbal Plants and their Applications, conducted from 14th-15th September-2012 In: CESS- Centre for Economic and Social Studies, Ameerpet Hyderabad.
4. WIPRO’s, Faculty Development Workshop on: High Impact Teaching Skills 14th -18th Feb,2012 (Session-1) & 9th-10th April ,2012(Session-2) JBREC-Moinabad.
5. Workshop 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. Online Faculty Development Programme On: Research Computing- The Enabling Role of Information Technology. Organised by Anwarul Uloom P.G.College, Dept of Botany. 16th February'2022
7. An International Conference on Biodiversity, Environment & Sustainable Development from 4-6 October 1994 conducted by Dept of Botany, Sarojini Naidu Vanitha Mahavidyalaya, affiliated to OU, Hyderabad
8. A One-Day National Seminar on Biodiversity for sustainable life-A Concern for Conservation of Natural Reserves, 12th April' 2016, conducted by University College of Science, Saifabad, Osmania University.
9. International Conference on "Green Trends In Environmental Sustainability-ICGTES, 16th-17th December'2016, Conducted by St. Ann's College for Women, affiliated to OU. Hyd
10. Two Day Seminar On, Plant Science Research: Current Status & Future Challenges 7th & 8th December'2017, Organised by Department of Botany, University College of Science, Saifabad, OU, Hyderabad.
11. Guest Lecture delivered on, "Invitro Techniques & its Applications", 12th October'2010, In: Dept of Botany, Anwarul Uloom Post Graduate autonomous Institution, affiliated to Osmania University.
12. Science Academy Lecture Workshop on, Plant Taxonomy: Aims & Perspectives, 2nd & 3rd November'2016 Organised by Dept of Botany Anwarul Uloom PG College Hyderabad.
13. A Two Day Seminar on: "Innovative Approaches for Sustainability In Production & Promotion of Utilisation" (2016) PULSES, 21 & 22 October' 2016, University College for Women Kothi, Autonomous & Constituent College-OU, Hyd
14. Participated In One Day National Seminar On: Role of Women in Different Capacities for Nation's Progress, 29th March'2019 conducted by University College of Science, Saifabad-OU.
15. Workshop cum Training Program on: Forest Genetic Resource Assessment & Conservation, 1st to 3rd March'2016 at IFB- Institute of Forest Biodiversity (ICFRE) Dulapally, sponsored by: MoEFCC-Ministry of Environment, Forests and Climate Change, Hyderabad.
16. Presented Paper & Participated In, One Day Seminar on: "Present Status of Higher Education, Science & Technology In India, 30th August'2016 Organised by: Dept of Botany, Osmania University.
17. A Two Day National Conference on Rediscovery of Importance of Herbal Plants & Their Applications. MGNIRSA Hyderabad, 14th-15th September'2012.
18. MUVVA Bio-Solutions Pvt Ltd. A Workshop in Bio-Informatics, on Importance of Structural Bioinformatics In Drug Design, 2nd & 3rd November'2011.
19. A Two Day National Webinar on: Recent Advances in Plant Sciences, 23rd & 24th November, 2021 Organised by Govt College for Women Chirala, Prakasham District.
20. National Online Faculty Development Program Research Computing, The Enabling Role of Information Technology, 15th-16th February'2022. Organisers, Dept of Botany In Collaboration with Dept of Computer Science, AUC, Hyderabad
21. MISSION 10X Workshop on: High Impact Teaching Skills, organised by JBREC, in collaboration with Dale Carnegie Training by WIPRO 14th -15th February'2012.

22. International Seminar on: Inspire Scientific Research, Empower Science & Technology- ISREST'2017-Organised In Collaboration with all Science Departments, Anwarul Uloom P.G College, OU.
23. Participated & presented Paper, In: One Day National Seminar entitled: "Recent Advances & Challenges in Horticulture" 22th February 2020 Organised by: Department of Botany, Anwarul-uloom College, Hyderabad.
24. A Two Day National Conference on: New Horizons in Applied Plant Sciences, Research & its Impact on Human Welfare (NHAPSRIHW 2018) 30th & 31st October'2018 organised by Dept of Botany Anwarul-Uloom College in association with IFB-ICFRE-Institute of Forest Biodiversity-Indian Council of Forestry, Research & Education.
25. Training cum Workshop: Agroforestry Vs Productivity, Climate Change, Mitigation & Adaptation on 30th September'2015. Dept of Botany AUC in Collaboration with IFB, Dulapally, Hyderabad.
26. Faculty Development Programme on 23rd December'2015, on Chemistry & Environment conducted by Dept of Botany, AUC-Hyderabad
27. Hands on training on : rDNA Technology 16th-18th September'2013 in Dept of Genetics, Osmania University under CAS-II Programme.
28. Enbios'2012- A Two Day National Level Symposium from 21st- 22nd March,.2012, JBREC.
29. Mission 10X- 14th & 15th February'2012, Dale Carnegie Training. A Workshop on High Impact Teaching Skills. organised by JBREC
30. A Two Day National Conference on Biodiversity and Human Health: 17th-18th November'2017, Dept of Botany, Nizam College, Conducted on Occasion of Osmania University Centenary Celebrations in Association with Telangana State Medicinal Plant Board.
31. One Day Seminar on "Stress Management Through Ayurveda" 2nd February'2023, conducted by Department of Botany, University College of Science, Saifabad, OU
32. Online Lecture Series on topic" Establishment of Research & Development Cell in Higher Educational Institutions, 23rd August'2022, conducted by MRP-UGC New Delhi
33. A Two Day National workshop on Cyber Hygeine & Cyber Security Formulas for Safe Future, from 19th-20th October'2022, conducted by Women Cell & Women's Study Center in Collaboration with Cyber Jagrithi & Safety Foundation.
34. Participated in 5 days QTP/FDP Program on Evolving Trends in Biotechnological Research from 27th -31st July' 2020, organised by Dept of Biotechnology, Sri Venkateshwara College of Engineering, Anna University, Chennai, Tamilnadu.
35. A 3-Day Virtual International Conference on Innovation for New Normal, 23rd-25th August'2020 organised by Govt Degree College, Parkal, affiliated to Kakatiya University, Warangal-TS
36. Webinar on Resource Management & Vermicomposting on 13th August'2020 conducted by Veridian Microlab Golden Jubilee Biotech Park for Womens Society. Kanchipuram District.
37. International Webinar Series on Plant Tissue Culture: Current Trends and Future Perspectives from 17th-19th June'2021 organised by Dept of Biotechnology,GSFC University,Gujarat India.

38. International Conference on: Advances in Plant Sciences for Sustainable Future (ICAPSSF-2024) organised by Dept of Botany, Osmania University on the occasion of Centenary Celebrations from 7th-9th February, 2024. Presented A Paper entitled, Urbanisation: A Threat towards Endangering of Plant Species in India.
39. A Guest Lecture delivered in: St. Joseph Degree & PG College for Women on 28th September'2024, topic: Recent Trends In Plant Sciences, Its Applications & Career Prospects.
40. Participated in a Two Day Conference on OMICS-A Translational Research on Proteomics, Metabolomics, Transcriptomics & Genomics Technologies In Agriculture & Human Health-IICT- Hyd, 7th -8th October, 2024 organised by IGNA-Indo-German Nachkontakt Association.

Message: Its a privilege being an Osmanian serving Osmania University & I am thankful to almighty for making me enable to achieve & acquire the academic knowledge & further giving me immense opportunities to utilise the abilities to its full potential & giving back to society every bit of my knowledge gained throughout in the best possible ways with a vision maintaining its legacy & making it one of the best Institution of Osmania University by working together with you all intellectuals around.

Dr Zehra Siddiqui

December'2024