FACULTY PROFILE

Personal Information:

Name : **Dr. Anirudh Kumar**
Designation : **Associate Professor**
Department : **Botany**
Mobile :**+91 8319360186**
Email : **anirudh@ctuap.ac.in**

Area of Specialization:

1. Plant Pathology
2. Plant Pathogen Interaction
3. Antioxidant and free radical scavenging activities of plant extracts

Academic qualification

Degree/Certificate	University/Institute	Year
Ph.D. (Plant Sciences)	University of Hyderabad, Hyderabad, India	2014
M.Sc. (Plant Sciences)	University of Hyderabad, Hyderabad, India	2005
B.Sc. (Science)	Magadh University, Bodh-Gaya, Bihar	2003

Work/Teaching Experience:

1. **Associate Professor:** Central Tribal University of Andhra Pradesh (CTUAP), Vizianagaram, Andhra Pradesh, India (Dec 19, 2022 – Present).

2. **Assistant Professor:** Indira Gandhi National Tribal University (IGNTU), Amarkantak, M.P., India (March 15, 2016- Dec 16, 2022).

3. **PBC-Postdoc Fellow:** Dept. of Post-harvest Sciences, Agriculture Research Organization (ARO), Israel, (12/2015-03/2016).

4. **DBT Research Associate:** CSIR-Centre for Cellular and Molecular Biology (CCMB), Hyderabad, India, (01/2014 – 11/2015).

5. **Research Associate:** International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), India, (7/2013 – 12/2013).

Research, Scholarly, Professional and Scientific Activity:

Research publications

1. Pawan Shukla, **Anirudh Kumar**, Rakesh Kumar (2023) Editorial: Climate change and stress mitigation strategy in Plants. Front. Plant Sci. 14:1291905. doi: 10.3389/fpls.2023.1291905, **IF:6.6**

2. Sharad Kumar Dubey, Aadil Mansoori, Madan Mohan, Kapil Sharma, **Anirudh Kumar*** (2023) *Hedychium coronarium* Flower Extract Modulates Rice Plant Photosystem II and Antioxidant Enzyme Activity to Induce Resistance Against Bacterial Blight. Physiol. Mol. Plant Pathol. 127, 102114, https://doi.org/10.1016/j.pmpp.2023.102114 **IF:2.7,** *Corresponding author

3. Lokya Vadthya, Sejal Parmar, Arun K. Pandey, ..., **Anirudh Kumar**, Rajeev K. Varshney and Manish K. Pandey (2023) Prospect of developing allergen depleted food crops. The Plant Genome, 2023;e20375, https://doi.org/10.1002/tpg2.20375, **IF: 4.2**

4. Prajna Priyadarshini Das, Kshitij RB Singh, Gunjan Nagpure, Aadil Mansoori, Ravindra Pratap Singh, Irfan Ahmad Ghazi, **Anirudh Kumar***, Jay Singh (2022) Plant-soil-microbes: A tripartite interaction for nutrient acquisition and better plant growth for sustainable agricultural practices. *Environment. Res*. 214, 113821, https://doi.org/10.1016/j.envres. 2022.113821 **IF: 8.4** *Corresponding author

5. Aadil Mansoori, Anurag Dwivedi, Kapil Sharma, Sharad Kumar Dubey, Tarun K. Thakur, **Anirudh Kumar***(2022) Identification of potential inhibitors from *Urginea indica* metabolites against *Xanthomonas oryzae* pv. *oryzae* and *Magnaporthe oryzae* receptors. *Front. Agron*. 4:922306. doi:10.3389/fagro.2022.922306, **IF: 3.4**

6. Thakur TK, Patel DK, Thakur A, Kumar A, Bijalwan A, Bhat JA, Kumar A, Dobriyal MJ, Kumar M and Kumar A (2021). Biomass Production Assessment in a Protected Area of Dry Tropical Forest Ecosystem of India: A Field to Satellite Observation Approach. *Front. Environ*. Sci. 9:757976. doi: 10.3389/fenvs.2021.757976, **IF: 5.4**

7. Nitesh Singh, Aadil Mansoori, Gitanjali Jiwani, Amolkumar Solanke, Tarun K. Thakur, Rakesh Kumar R, Mona Chaurasiya and **Anirudh Kumar*** (2021). Antioxidant and antimicrobial study of Schefflera vinosa leaves crude extracts against rice pathogens, *Arabian J Chem*, 14 (7), 103243, https://doi.org/10.1016/j.arabjc. 2021.103243. **IF: 6.2**

8. Nitesh Singh, Aadil Mansoori, Gitanjali Jiwani, Amolkumar Solanke, Rakesh Kumar and **Anirudh Kumar*** (2021). Evaluation of antioxidant and antimicrobial potential of *Thespesia lampas* root extracts. *J Exp Biol Agric Sci* 9(1), 87-101. https://doi.org/10.18006/2021.9(1).87.99

9. Rakesh Kumar, Vinay Sharma, Srinivas Suresh, Devade Pandurang Ramrao,Akash Veershetty, Sharan Kumar, Kagolla Priscilla, BhagyaShree Hangargi, Rahul Narasanna, Manish Kumar Pandey, Gajanana Ramachandra Naik, Sherinmol Thomas, and **Anirudh Kumar*** (2021) Understanding Omics Driven Plant Improvement and de novo Crop Domestication: Some Examples. *Front Genet*. 12:637141. doi:10.3389/fgene.2021.637141. **IF: 4.7**

10. Vinay Sharma, Prateek Gupta, Kagolla Priscilla, Bhagyashree Hangargi, Akash Veershetty, Devade Pandurang Ramrao, Srinivas Suresh, Rahul Narasanna, Gajanana R Naik, **Anirudh Kumar**, Baozhu Guo, Weijian Zhuang, Rajeev K Varshney, Manish K Pandey, Rakesh Kumar (2021). Metabolomics Intervention Towards Better Understanding of Plant Traits. *Cells* 10(2), 346; https://doi.org/10.3390/cells10020346 **IF: 7.6**

11. Aadil Mansoori, Nitesh Singh, Sharad Kumar Dubey, Tarun K. Thakur, Noam Alkan, Subha Narayan Das and **Anirudh Kumar*** (2020). Phytochemical characterization and assessment of crude extracts from Lantana camara L. for antioxidant and antimicrobial activity. *Front. Agron*. 2, 1–14. https://doi.org/10.3389/fagro.2020.582268, **IF: 3.4**

12. Tarun Kumar Thakur, DK Patel, Joystu Dutta, **Anirudh Kumar**, Sandeep Kaushik, Arvind Bijalwan, Mohammed S Fnais, Kamal Abdelrahman, Mohammad Javed Ansari (2020). Assessment of Decadal Land Use Dynamics of Upper Catchment Area of Narmada River, the lifeline of Central India. *J. King Saud Univ. Sci*., 33 (2) 101322 https://doi.org/10.1016/j.jksus.2020.101322 **IF: 3.8**

13. Tarun Kumar Thakur, Digvesh Kumar Patel, Arvind Bijalwan, Mammohan J. Dobriyal, **Anirudh Kumar**, Anita Thakur, Abhishek Bohra, Jahangeer A. Bhat (2020). Land use land cover change detection through geospatial analysis in an Indian Biosphere Reserve. *Trees, Forests and People*. 1-18, 2-100018. https://doi.org/10.1016/j.tfp.2020.100018 **IS: 2.3**

14. **Anirudh Kumar,** Rakesh Kumar, Debashree Sengupta, Subha Narayan Das et al., (2020). Deployment of genetic and genomic tools towards gaining a better understanding of Rice-Xanthomonas oryzae pv. oryzae interactions for development of durable bacterial blight resistant rice. *Front. Plant Sci*. 1-23, 11:1152. doi:10.3389/fpls.2020.01152. **IF: 6.6**

15. Rakesh Gupta, Abhishek Bohra, Arun K. Pandey, Manish K. Pandey, **Anirudh Kumar*** (2017). Metabolomics and crop improvement: Status and prospects. *Front. Plant Sci*. 8:1302. **IF: 6.6**

16. **Anirudh Kumar**, W. Bimolata, M. Kannan, P.B. Kirti, I.A. Qureshi, Irfan A. Ghazi (2015). Comparative proteomics reveals differential induction of both biotic and abiotic stress response associated proteins in rice during Xanthomonas oryzae pv. oryzae infection. *Functional and Integrative Genomics*, 15:425–437. **IF: 3.6**

17. W. Bimolata, **Anirudh Kumar**, S.K. Reddy, R.M. Sundaram, G.S. Laha, I.A. Qureshi, Irfan A. Ghazi (2015). Nucleotide diversity analysis of three major bacterial blight resistance genes in rice. *PLoS ONE* 10(3): e0120186. **IF: 3.7**

18. **Anirudh Kumar**, A. Guha, W. Bimolata, A.R. Reddy, G.S. Laha, R.M. Sundaram, M.K. Pandey, Irfan A. Ghazi (2013). Leaf gas exchange physiology in rice genotypes infected with bacterial blight: An attempt to link photosynthesis with disease severity and rice yield. *Australian Journal of Crop Science*, 7(1):32-39. IF -1.7 (RG)

19. W. Bimolata, **Anirudh Kumar**, R.M. Sundaram, G.S. Laha, I.A. Qureshi, G.A. Reddy, Irfan A. Ghazi (2013). Analysis of nucleotide diversity of the major bacterial blight resistance gene Xa27 in Oryza sativa and its wild relatives. *Planta* 238:293-305. **IF: 4.5**

20. **Anirudh Kumar**, M.Z. Gul, A. Zeeshan, W. Bimolata, I.A. Qureshi, Irfan A. Ghazi (2013). Differential antioxidative responses of three different rice genotypes during bacterial blight infection. *Australian Journal of Crop Science*, 7(12):1893-1900. IF:1.7 (RJ)

21. M.K. Pandey, N.S. Rani, M.S. Madhav, R.M. Sundaram, G.S. Varaprasad, A.K.P.

Sivaranjani, A. Bohra, G. Ram Kumar and **Anirudh Kumar** (2012). Different isoforms of starch-synthesizing enzymes controlling amylose and amylopectin content in rice (Oryza sativa L.). *Biotechnology Advances*, 30:1697–1706. https://doi.org/10.1016/j.biotechadv.2012.08.011; **IF: 17.6**

22. **Anirudh Kumar**, W. Bimolata, G.S. Laha, R.M. Sundaram, Irfan A. Ghazi (2011). Comparative analysis of the genomic regions flanking Xa21 locus in indica and japonica ssp. of rice (Oryza sativa L.). *Plant Omics Journal*, 4(5):239-249. IF: 1.0 (RG)

Research publications in conference (International)

1. **Anirudh Kumar**, M.M. John, M.Z. Gul, W. Bimolata and Irfan A. Ghazi (2011). Differential Responses of Non-enzymatic Antioxidative System under Water Deficit Condition in Rice (Oryza sativa L.); IPCBEE vol.9 © (2011) IACSIT Press, Singapore (Proceeding publication).

Books published:

1. Pawan Shukla, **Anirudh Kumar**, Rakesh Kumar and Manish K Pandey (2022) Molecular Response and Genetic Engineering for Stress in Plants: Abiotic stress (Volume 1), IOP Publishing. ISBN-13: 978075034919; https://doi.org/10.1088/978-0-7503-4921-5

2. Pawan Shukla, **Anirudh Kumar**, Rakesh Kumar and Manish K Pandey (2022) Molecular Response and Genetic Engineering for Stress in Plants: Biotic stress (Volume 2), IOP Publishing. ISBN: 9780750349246; https://doi.org/10.1088/978-0-7503-4921-5

3. **Anirudh Kumar**, Rakesh Kumar, Pawan Shukla and Manish K Pandey (2021) Omics Technologies for Sustainable Agriculture and Global Food Security (Volume 1), Springer Nature-Singapore. ISBN: 978-981-16-0830-8; https://doi.org/10.1007/978-981-16-0831-5.

4. **Anirudh Kumar**, Rakesh Kumar, Pawan Shukla and Hitendra K Patel (2021) Omics Technologies for Sustainable Agriculture and Global Food Security (Volume 2), Springer Nature-Singapore. ISBN: 978-981-16-2955-6; https://doi.org/10.1007/978-981-16-2956-3

Book chapters published as author and co-author:

1. Aadil Mansoori, Sharad K Dubey, Madan Mohan, Rakesh Kumar, Dipesh Kumar Singh and **Anirudh Kumar*** (2022). The role of antioxidant system vis-à-vis reactive oxygen species with respect to plant–pathogen interaction. In: Shukla P, Kumar A, Kumar R, Pandey MK (eds) 2, Biotic stress, *IOP Publishing Ltd* 2022. ISBN: 9780750349246

2. Naveen Kumar Singh, Suresh Kumar Gupta, Abhay Kumar, Ranjana Gautam, **Anirudh Kumar** and Pawan Shukla (2022). Plant defense system and role of antimicrobial peptides. In: Shukla P, Kumar A, Kumar R, Pandey MK (eds) Molecular Response and Genetic Engineering for Stress in Plants, Volume 2, Biotic stress, *IOP Publishing Ltd* 2022. ISBN: 9780750349246

3. **Anirudh Kumar***, Rakesh Kumar, Pawan Shukla, Swati Singh, Minhaj Alam and Dipesh Kumar Singh (2022). Update on cloning and molecular characterization of bacterial blight resistance genes in rice. In: Shukla P, Kumar A, Kumar R, Pandey MK (eds) 2, Biotic stress, *IOP Publishing* Ltd 2022. ISBN: 9780750349246

4. Vinay Sharma, Kalant Jambaladinni, Nitesh Singh, Neelam Mishra, **Anirudh Kumar** and Rakesh Kumar (2022). Understanding environmental associated abiotic stress response in plants under changing climate. In: Shukla P, Kumar A, Kumar R, Pandey MK (eds) Molecular Response and Genetic Engineering for Stress in Plants, Volume 1, Abiotic stress, *IOP Publishing Ltd* 2022. ISBN: 9780750349192

5. Rahul Narasanna, Aadil Mansoori, Neelam Mishra, Vinay Sharma, Sherinmol Thomas, Abhaypratap Vishwakarma, Dayanand Agsar, **Anirudh Kumar**, Manish K. Pandey and Rakesh Kumar (2022). Plant Metabolomics for Crop Improvement. In: Srivastava KD, Thakur AK, Kumar P (eds) Agricultural Biotechnology: Latest Research and Trends. *Springer Verlag, Singapore*. ISBN 978-981-16-2338-7. DOI: 10.1007/978-981-16-2339-4_17; Pages 385-413.

6. Sumit Kumar, Naveen K. Singh, **Anirudh Kumar**, Pawan Shukla (2021). Next Generation Biofuel Production in the Omics Era: Potential and Prospects. In: Kumar A, Kumar R, Shukla P, Patel HK (eds) Omics Technologies for Sustainable Agriculture and Global Food Security (Vol II). *Springer Verlag, Singapore* (1st ed.) ISBN: 978-981-16-2955-6; DOI: https://doi.org/10.1007/978-981-16-2956-3, pp 293-311.

7. Nitesh Singh, Aadil Mansoori, Debashish Dey, Rakesh Kumar and **Anirudh Kumar*** (2021) Potential of Metabolomics in Plant Abiotic Stress Management. In: Kumar A, Kumar R, Shukla P, Patel HK (eds) Omics Technologies for Sustainable Agriculture and Global Food Security (Vol II). *Springer Verlag, Singapore* (1st ed.) ISBN: 978-981-16-2955-6; DOI: https://doi.org/10.1007/978-981-16-2956-3, pp 193-214.

8. Rakesh Kumar, Nizampatnam NR, Minhaj Alam, Tarun K. Thakur and **Anirudh Kumar*** (2021). Genome editing technologies for plant improvement: Advances, Applications and challenges. In: Kumar A, Kumar R, Shukla P, Pandey MK (eds) Omics Technologies for Sustainable Agriculture and Global Food Security (Vol 1) *Springer Verlag, Singapore* (1st ed.) ISBN: 978-981-16-0830-8; DOI: 10.1007/978-981-16-0831-5, pp 213-240.

9. **Anirudh Kumar***, Rakesh Kumar, Nitesh Singh, Aadil Mansoori (2020). Regulatory framework and policy decisions for Genome-edited crops. In: Bhattacharya A., Parkhi V., Char B. (eds) CRISPR/Cas Genome Editing. Concepts and Strategies in Plant Sciences. *Springer*, Cham. pp. 193–201. https://doi.org/10.1007/978-3-030-42022-2_9
ISSN 2662-3188

10. Noam Alkan, **Anirudh Kumar** (2018). Post-harvest storage management of mango fruit, In: Achieving sustainable cultivation of mangoes, Galan Sauco, V. (Ed.), Lu, P. (Ed.)., *Burleigh Dodds Science Publishing Limited*, ISBN 9781786761354, http://dx.doi.org/

10.0000/00000. 0000

11. **Anirudh Kumar**, Hitendra Kumar Patel (2016). Major infectious diseases of rice, In: *Jigyasa*, 15:62-70, ISSN 0972-4311, CSIR-*CCMB, Jigyasa*: A Flagship Science Magazine of CSIR-*CCMB* in Hindi Language.

12. Rahul Priyadarshi, Hitendra Kumar Patel, **Anirudh Kumar***(2018). Breeding for Nutritional Enhancement in Crops: Biofortification and Molecular Farming, In: Advanced Molecular Plant Breeding, Meeting the Challenges of Food Security, D.N. Bharadwaj (Ed.), *Apple Academic Press, Inc. (CRC Press), a Taylor & Francis Group*, ISBN 978-1-77188-664-2 *Corresponding Author

13. Mir Zahoor Gul, Mohd Yasin Bhat, **Anirudh Kumar**, Beedu Sashidhar Rao (2018) Molecular pharming (pharmaceuticals): Primary and Secondary metabolites in plants, In: Advanced Molecular Plant Breeding, Meeting the Challenges of Food Security, D.N. Bharadwaj (Ed.). *Apple Academic Press, Inc. (CRC Press), a Taylor & Francis Group*, ISBN 978-1-77188-664-2

14. Kapil Sharma, Supriya Sarma, Abhishek Bohra, Abhijit Mitra, Naveen K. Sharma and **Anirudh Kumar*** (2018). Plant Metabolomics: An Emerging Technology for Crop Improvement, In: New Visions in Plant Science, Özge Çelik (Ed.), *IntechOpen*, DOI: 10.5772/intechopen.76759. *Corresponding Author. ISBN: 978-1-78923-703-0

Invited talks/lectures at professional or scientific meetings and conferences

1. Title: *Hedychium coronarium* Flower Extract Modulates Rice Plant Photosystem II and Antioxidant Enzyme Activity to Induce Resistance Against Bacterial Blight; International Conference on Agriculture and Plant Science, September 06-07, 2023, Singapore.

2. Title: *Lantana camara* L: A novel source of antioxidant and antimicrobial compounds; National Seminar on World Environment Day, Organized by Department of Life Sciences and Biotechnology, Kanpur University, Dated 04/06/2022

3. Title: *Lantana camara* –A weed of agricultural and nutraceutical values. First International Conference on Technologies, Sustainable Development Goals and Academia 2022 (ICTSGA-1), July 1-2, 2022.

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

1. Delivered a talk on "Xanthomonas oryzae infection differentially induce both biotic and abiotic stress response associated proteins in rice" at MBSR, India (2016).
2. Delivered a talk on "Cell Wall Degrading Enzyme Lipase Downregulate the Proteins Expression Involved in Photosynthetic Processes" at MIPAM, India (2016).
3. Presented poster at the 4th International Conference on Bacterial Blight of Rice. CCMB,

India (2013).

4. Presented poster in the International Conference on Dialogue on Designer Rice for Future: Perception & Prospects, ICRISAT, Hyderabad, India (2012).
5. Delivered a talk on "Differential responses of non-enzymatic antioxidative system under water deficit condition in rice (*Oryza sativa* L.)" at the ICFEB 2011, Bangkok (2011).
6. Delivered a talk on "Comparative analysis of the genomic regions flanking Xa21 locus in indica and japonica ssp. of rice (*Oryza sativa* L.) and screening of BAC clones for resistance gene analogues (RGAs)" at the Plant Sciences Colloquium-2010, UoH, Hyderabad, India.
7. Xa21 mediated resistance against Xanthomonas Oryzae, The 3rd Global Bihar Science Conference, (2010).
8. Presented poster in International Conference on Frontiers in Biological Sciences (InCoFIBS-2010), NIT Rourkela, India (2010).
9. Presented poster in National Symposium on Research Priorities and Strategies in Rice Production System for Second Green Revolution, CRRI, India (2007).

Ph.D. Guidance: Guided: 02; Guiding: 03

M.Sc. Dissertation: Guided: 15

S.No	Ph.D. Research Fellows	Thesis Title	Registration Date	Date of Award
1	Mr. Nitesh Singh	Phytochemical screening of plant extract and their antimicrobial activity against rice pathogens (Enrl. No.)	24/07/2017	23/05/2022
2	Md. Aadil Mansoori	Effect of plant extract to induce systemic resistance in susceptible genotypes of rice against Xanthomonas: An alternate strategy for disease management (Enrl. No. 1801363002)	25/09/2018	17/01/2023
3.	Mr. Madan Mohan	Assessment of phytochemical, Nutritional and Metabolic Properties of Finger Millet (*Eleusine coracana* L.) Landraces (Enrl. No. 2001363006)	20/02/2021	**In Progress**
3.	Mr. Sharad K. Dubey	Understanding the antimicrobial activities of plant extracts and their role in inducing defense responses in rice plants susceptible to bacterial blight disease (Enrl. No. 2001363010)	13/02/2021	**In Progress**
4.	Ms. Deepika Namdev	Comparative study of Phyto-chemicals and assessment of crude extracts for antioxidant and antimicrobial properties (Enrl. No.2002365003)	14/02/2021	**In Progress**

Research projects (ongoing/completed)

Sl No.	Title of the project	Name of the funding agency	Grant amount	Duration	Date of commencement	Date of Completion
1	Proteomics study of cell wall damage induced innate immunity in Rice (*Oryza sativa* L.) (30-392/2017(BSR)	UGC, New Delhi	10.0 Lacks	02 Years	21/9/2017	20/9/2019
2	Effect of plant extract of Achanakmar-Amarkantak biosphere reserve on bacterial blight and rice blast: Alternate strategy for disease management (3879/CST/ R&D (BioSci)/2018)	MPCST	6.87 Lacks	03 Years	28.03.2018	7.03.2021
3	Sickle cell disease-related stigma, economic loss and quality of life among tribal population of India (Reference: NTF/SCD-Stigma/2022/ SBHSR/05; Co-PI)	ICMR	49.0 Lacks	02 Years	01.02.2023	Ongoing
4.	Evaluating the Socio-economic Impact of the 'International Year of Millet-2023' Initiative in Vizianagaram District, Andhra Pradesh (F.No. 180/CRP-2023-1429/YoM23/SC; Co-PI; Dated 22/09/2023)	ICSSR	5.0 Lacks	06 Months	22/09/2023	Ongoing

Membership of professional bodies:

1. Member of Board of studies (BoS), Department of Botany, Central Tribal University of Andhra Pradesh, Vizianagaram, Andhra Pradesh, India, for the period of three years (Feb 10, 2022-Feb 9, 2025).

2. Member of Board of studies (BoS), Department of Botany, Indira Gandhi National Tribal University, Amarkantak, MP, India, for the period of three years (Aug 7, 2019 – Aug 6, 2022).

3. Member of Board of studies (BoS), Department of Pharmacy, Indira Gandhi National Tribal University, Amarkantak, MP, India, for the period of three years (Aug 7, 2019 – Aug 6, 2022).

4. Internal expert member of Institutional Biosafety committee (IBSC) of Indira Gandhi National Tribal University for the period of three years (Dec18, 2019 – Dec 17, 2022).

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

1. Frontiers Topic Editor: Climate Change and Stress Mitigation Strategy in Plants. https://loop. frontiersin.org/people/1023824/editorial

2. Review Editor for Plant Genomics section, Frontiers in Genetics

Offline/Online Certifications

1. Introductory Program in Bioinformatics - Spring 2008" from Bioinformatics Institute of India, India (7/2008 -12/2008).

2. Intensive Course for German Language and culture, University of Münster, Germany, (1.08.2011 -28.08.2011).

Awards/Fellowships/Distinctions/Achievements:

1. Frontiers and SPAST Research Recognition Award" for giving, 'Invited Talk' on "Lantana camara - A weed of agricultural and nutraceutical values" at the ICTSGA-1 Conference, July 1-2, 2022.

2. IGNTU President Young Scientist Award, Feb 28, 2017, runner-up.

3. PBC Postdoctoral Fellowship: The Planning and Budgeting Committee (PBC) Postdoctoral Fellowships for Outstanding Postdoctoral Fellows from China and India Jan 1, 2015/2016.

4. DAAD Scholarships: A New Passage to India and Pre-PhD Modules in Life Sciences, August 1, 2011.
5. Excellent paper presentation award: ICFEB 2011, Bangkok, Thailand, May 28, 2011.
6. Young scientist award: 3rd Global Bihar Science Conference Feb 13, 2010, India.
7. Best poster award: National Symposium on "Research Priorities and Strategies in Rice Production System for Second Green Revolution" CRRI-Cuttack, Nov 22, 2007, India.
8. National & International Certification: ARS NET-2014, DBT-RA: 2013/14, India, TOEFL (Score – 220 / 300 in 2006).
9. Merit cum Mean Scholarship: University of Hyderabad, 2003-2005.

Other responsibilities:

1. Astatine Public Information Office (A.P.I.O), RTI Cell, Central Tribal University of AP, Vizianagaram, Andhra Pradesh, India from May 24, 2023.

2. Member, Anti-Ragging Committee, Central Tribal University of AP, Vizianagaram, Andhra Pradesh, India from May 17, 2023.

3. Head I/c Department of Tribal Studies, Central Tribal University of AP, Vizianagaram, Andhra Pradesh, India from March 02, 2023.

4. Convener (Collaboration and Community), Research Advisory Council (RAC)-Research and Development Cell (RDC), Central Tribal University of AP, Vizianagaram, Andhra Pradesh, India from Feb 11, 2023.