

## Pavan Chand Akkiraju, Ph.D.

### Associate Professor & Head | Dept. of Medical Biotechnology

School of Allied and Healthcare Sciences, Malla Reddy University,  
Hyderabad – 500100, Mobile /what's app: +9642884261  
e-mail: [drakkiraju\\_pavanchand@mallareddyuniversity.ac.in](mailto:drakkiraju_pavanchand@mallareddyuniversity.ac.in)  
ORCID ID: <https://orcid.org/0000-0002-0170-4259>  
Scopus Author ID: [56044550300](https://orcid.org/0000-0002-0170-4259)

### Research Interest

Gene Mapping, Animal Cell Culture,  
Antimicrobial Studies, Bioremediation, Drug  
designing, Vaccine Technology, Cancer Biology,  
Public Health, Nanotechnology, Bioinformatics, Data  
mining, Artificial Intelligence, Machine Learning,  
Deep Learning

### Research Summary & Highlights

A dynamic and versatile individual with 15.8 years of experience in academics, research, administration and entrepreneurship; accented with the latest trends and techniques of Biotechnology field have an inborn quantitative aptitude & determined to carve a successful and satisfying career in teaching/research and administration.

### Education (Online courses – 6 (Coursera); Certificate courses – 3; PG Diplomas – 4)

2006-2010 Ph.D. in **Agronomy (Agriculture Biotechnology)**, **Universidad Nacional del Sur, Argentina**  
**Thesis:** Mapping genomic regions (QTLs) for grain yield and its components in *Triticum turgidum* L.var. durum across different environments  
2002-2004 M.Sc. in **Biotechnology**, Periyar University, Tamil Nadu, India  
**Thesis:** Uptake of Chromium (VI) by *Pseudomonas aeruginosa*  
1999-2002 B.Sc. in **Microbiology, Biochemistry, Appl. Nutrition**, Nagarjuna University, A.P., India

### Experience (Academic – 9.8 Yrs; Management – 2.5 Yrs; Industrial – 3.5 Yrs, Total – 15.8 Years)

**05.06.2023-PRESENT Associate Professor**, School of Allied Healthcare Sciences, Malla Reddy University, Hyderabad  
**23.03.2023-31.05.2023 Associate Professor**, Aurora's Degree & PG College, Hyderabad, India  
**01.01.2020-16.11.2022 Research Scientist**, Vedik Go Utpad Foundation, Pathmeda, Jalore (Dt), Rajasthan, India  
**10.11.2017-30.11.2018 Administrative Officer**, A&M Technologies, Bahia Blanca, Argentina  
**02.02.2015-07.07.2016 Head & Assistant Professor**, PVP College Arts, Science & Commerce, Loni, India  
**18.09.2014-31.01.2015 SAS Programmer**, Synten Life sciences Private Limited, Hyderabad, India  
**19.07.2013-16.09.2014 Assistant Professor**, Aurora's Degree & PG College, Hyderabad, India  
**02.08.2010-31.05.2013 Lecturer**, Loyola Academy Degree & PG College, Alwal, Secunderabad, India  
**28.06.2004-17.12.2005 Assistant Professor**, Gokaraju Rangaraju Institute of Eng. & Tech., Hyderabad, India

### Other Experience:

01.02.2019-17.12.2019 **Managing Director**, Vicraya Creatives, Hyderabad, India  
01.08.2016-30.03.2017 **Content writer**, M&A Photography & Advertising Agency, Hyderabad, India

### Projects / Industrial Experience (Production & Marketing)

2020-22 Production of high-quality organic manure from cow dung – Vedik Goutpad Foundation sponsored project  
2015-16 Phytochemistry of Pomegranates, Self-financed, PVP College of Arts & Science, Loni, India  
2003-04 Uptake of chromium (VI) by *Pseudomonas aeruginosa*, Student Trainee, IICT, Hyderabad, India

### Selected Publications (Papers:26, Citations: 252, h-index: 6, i-10 index: 5, Corresponding author: 10)

1. Krishna K., Seshadri N., Jailani S., Pavan C. A., Mahesh P. M., Srinivas G., Srinivas E., Rahul S. T. Targeted delivery aspects of Proanthocyanidins in breast cancer treatment: from discovery to development. *Molecular and Cellular Biochemistry*. August **2025**. <https://doi.org/10.1007/s11010-025-05365-1>. (IF: 3.7)
2. Krishna K., Srinivas G., Pavan C. Akkiraju et al. Molecular dynamics simulation analysis of a modelled spermidine synthase from *Yersinia pseudotuberculosis* docked with cyclohexylamine. *Bioinformation*, Biomedical Informatics 21(2): 210-219, **2025** (IF: 1.9)
3. S. R. Baddam, S. Ganta, S. Nalla, C.S. Banoth, B. Vudari, P. C. Akkiraju et al. Polymeric nanomaterials-based theranostic platforms for triple-negative breast cancer (TNBC) treatment. *International Journal of Pharmaceutics*. Elsevier, 660, 20 July **2024**, 124346. (IF: 5.3)
4. Krishna K., P. C. Akkiraju, et al. Emerging natural polymer-based architected nanotherapeutics for the treatment of cancer. *International Journal of Biological Macromolecules*. Elsevier, 262(1), March **2024**, 129434 (IF: 8.2).
5. Minyamer T, Indracanti M, Akkiraju PC, Dokka MK, Berhane N. Assessment of factors associated with pre-and post-educational intervention on cervical cancer awareness among women students of UOG, Northwest Ethiopia. *Polish Polar Research*, 45(3), **2024** (IF: 1.3).
6. Roncallo, PF<sup>#</sup>; Akkiraju, PC<sup>#</sup> et al. QTL mapping and analysis of epistatic interactions for grain yield and yield-related traits in *Triticum turgidum* L. var. durum. *Euphytica*, Springer, **2017** (IF: 2.387, #: equally contributed).
7. Romero JR, Roncallo PF, Akkiraju PC et al. Using classification algorithms for predicting durum wheat yield in the province of Buenos Aires. *Computers and Electronics in Agriculture*, Elsevier, 2013 (IF: 5.565).

### Scientific Contribution/Reviewing/Thesis Supervision

Reviewer in peer reviewed journals:	6	External Examiner for University exams:	5	Patents:	2
Thesis supervision (M.Sc.):	21	Workshop/Training/Advance course attended:	22	Conducted:	5
Conference/Symposium/Meeting:	11	Membership/Affiliation to scientific society:	2		

### Awards

**2025 Best Researcher Award** – DevElet Technologies LLP., India  
**2017, 2019, 2020 Excellence in Reviewing Award** - International Journal of Clinical Biochemistry & Res. **2013-**  
**2013-2014 Best faculties Award** (8<sup>th</sup>) of the College, Aurora's Degree & PG College, Hyderabad.