

## Curriculum Vitae



### **Dr. Prasad A. Wadegaonkar**

**Professor & Head**

**Department of Biotechnology,  
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Date of Birth February 6, 1966

### **Professional Experience**

September 2017 – till date Department of Biotechnology, SGB AU, Amravati  
**Professor & Head**

December 2016 – till date UGC-Human Resource Development Centre, SGB AU, Amravati  
**Director (I/C)**

March 2010 – till date Department of Biotechnology, SGB AU, Amravati  
**Professor**

March 2007 – March 2010 Department of Biotechnology, SGB AU, Amravati  
**Associate Professor**

October 2006 – till date Bioinformatics Centre of BTISnet (DBT), SGB AU, Amravati  
**Coordinator**

March 2004 – March 2007 Department of Biotechnology, AU, Amravati  
**Reader**

March 1999 – March 2004 Department of Biotechnology, AU, Amravati  
**Senior Lecturer**

March 1995 – Feb 1999 Department of Biotechnology, AU, Amravati  
**Lecturer**

1991- 1995                      School of Life Sciences, R.S.U. Raipur  
**JRF / SRF (UGC)**

June 1990 – May 1991      Bharat Immunological & Biological Corp. Ltd.,  
**Manager (Prod/QC)**        (DBT Undertaking, Govt of India) Bulandshahr

May 1990- June 1990      IPVE Moscow (USSR)  
**Young BIBCOL Scientist (On deputation)**

Feb 1989 – April 1990      Department of Biotechnology, Govt. of India, New Delhi  
**Biotechnology Trainee**

Enterovirus Research Centre, Mumbai

Central Research Institute, Kasauli

Pasteur Institute, Coonoor

National Facility for Animal Tissue & Cell Culture, Pune

## **Education**

1985      **B.Sc.**                              Ravishankar University, Raipur, M.P.

1988      **M.Sc. Biotechnology**      M.S. U. Baroda      (DBT, Govt. of India Sponsored)

1988      **GATE      Life Sciences 91.3 Percentile**

1989      **NET-JRF (UGC) Life Sciences**

1995      **Ph.D. Biosciences**              Ravishankar University, Raipur, M.P.

**Award : Young Scientist Award 1994.** M.P. Council for Science & Technology, Bhopal.

**Honour : Distinguish Alumnus** – On the occasion of Golden Jubilee (1964-2014) of The Department of Microbiology and Biotechnology Centre, The Maharaja Sayajirao University of Baroda

**Nomination: As member on Herbal Study Group of “Advantage Amravati”**

**Advantage Amravati:** Govt. of Maharashtra has constituted District Level Committee for Industrial Development in Amravati District under Guardian Minister through GR No. IDC 1025/(9692)/U-14 dated 12<sup>th</sup> April 2005.

## RESEARCH AND OTHER PROJECTS UNDERTAKEN

S. No.	Project Title	Type of Project	Funded by	Amount (Rs.)	Period
1.	Chemical modification of L-Arginase of <i>Penicillium citrinum</i>	Research (Completed)	UGC (Unassigned grant)	0.25 L	1998-00
2.	Studies On Bacterial Alkaline Proteases And Their Biotechnological Application	Research (Completed)	TRDEA	0.15 L	2002-04
3.	Database Preparation of Melghat Flora	Research (Completed)	S&T, Govt. of Maharashtra	3.16 L	2001-2006
4.	Over-production of active principles of <i>Withania somnifera</i> (Ashwagandha) in root organ culture”.	Research (Completed)	UGC	11.19 L	2004-07
5.	Creation Of Bioinformatics Infrastructure Facility (BIF) For The Promotion Of Biology Teaching Through Bioinformatics (BTBI) Scheme Of BTISnet	Establishment (Coordinator)	DBT	50.72 L	2006-2020
6.	Process Development for production of artemisinin through root organ culture of <i>Artemisia annua</i>	Research (Complete)	LSRB, DRDO	9.96 L	2007-2010
7.	Studies On Isolation and Identification of Apoptosis Inducers As A Novel Cancer –Therapeutics From <i>Alpinia</i>	Research (Complete)	UGC	12.13 L	2009-12
8.	Confirmation and validation of anticancer properties of Wheat grass ( <i>Triticum aestivum</i> ) using modern scientific approach.	Research	UGC	18.86 L	2015-18
9.	DST-FIST	Infrastructure (Coordinator)	DST	76.00 L	2019-24

**Reviewer: African Journal of Biotechnology, Vaccine, Tumor Biology,**

**Microbial Culture isolated & Deposited to Microbial Type Culture Collection & Gene bank  
: *Pseudomonas aeruginosa* (MTCC 8289)**

## **Research Guidance**

1. Ph.D.      Awarded - 08, Registered - 03; Submitted - 03
2. M.Phil-03

## **Managing positions**

1. Member, Management Council (2018-19)
2. Director (I/C), UGC-Human Resource Development Centre, SGBAU, Amravati (2016- )
3. Coordinator, Bioinformatics Infrastructure Facility (SGBAU), BTISNet, DBT, Govt. of India, New Delhi (2007-20).
4. Member, Board of College and University development (2012-2016)
5. Member, Perspective Plan Committee, SGB Amravati University (2013-2016)
6. Member, Scrutiny Committee for Permanent Affiliation (Colleges), SGB Amravati University (2012-2016)
7. Chairman, Adhoc Board of Studies in Bioinformatics, SGB Amravati University Since 2012
8. Member, Adhoc Board of Studies in Biotechnology, SGB Amravati University (2009-12) (2017- )
9. Coordinator, DST FIST (2018-23)
10. Coordinator, UGC NET Centre for SC, ST and Minorities (2011-2013)
11. Head, Department of Biotechnology, SGB Amravati University (2013-2014)
12. Co-ordinator, SAP (Special Assistance Programme), UGC., New Delhi (2013-2014).
13. Coordinator, Refresher Courses in Life Science, UGC-Academic Staff College, SGB Amravati University (2011 and 2012)
14. University Representative on Building Construction Committees of various colleges, SGB Amravati University (2012-2016)
15. Member, Awishkar Expert Committee (2015- )

## **Memberships of Scientific Societies**

1. Chattisgarh Botanical Society
2. Association of Microbiologist of India (AMI)
3. Indian Science Congress Association, Calcutta
4. Society for Basic and Applied Mycology (SBAM)
5. Biotechnology Research Society of India (BRSI)
6. Asian Federation of Biotechnologist
7. Society for Biotechnologists of India
8. Marathi Vidnyan Parishad

## List of Publications

1. Thakare V.G., Joshi P.A., Godse R.R., Bhatkar V.B., Wadegaokar P.A., Omanwar S.K. (2017). Fabrication of polycaprolactone/zirconia nanofiber scaffolds using electrospinning technique. *Journal of Polymer Research*, 24(12): 1-11
2. Thakare V.G., Joshi P.A., Godse R.R., Bhatkar V.B., Wadegaokar P.A., Omanwar S.K. (2016). Quality Enhancement of Polycaprolactone/Hydroxyapatite Nanocomposite Scaffold using Novel In-situ Sol-Gel Method. *Trends in Biomaterials & Artificial Organs*, 30 (2): 126-133.
3. Wadegaonkar V.P., Pilley H.H., Wadegaonkar P.A. (2016). Computational evidence to inhibition of IGF-1R tyrosine kinase by withanone for cancer therapy. *Current Trends In Biomedical and Life Sciences* 1 (1): 72-76
4. Hade S.N., Joshi P.A., Pilley H.H., Wadegaonkar V.P., Wadegaonkar P.A. (2016). Evaluation of Crataeva nurvala extracts as antioxidant, antiproteolytic and cytotoxic against hepato-carcinoma and mouse melanoma cell lines. *Journal of Applied Pharmaceutical Science*, 6(9): 189-196.
5. Thakare V.G., Joshi P.A., Godse R.R., Bhatkar V.B., Wadegaokar P.A., Omanwar S.K. (2016). Evaluation of biological activities of nanocrystalline tetragonal zirconia synthesized via SOL-GEL method. *International Journal of Pharmacy and Pharmaceutical Sciences* 8 (6), 125-131.
6. Jagilinki B.P., Gadewal N., Mehta H., Mahadik H., Pandey V., Anamika, Sawant U., Wadegaonkar P.A., Goyal P., Kumar S. & Varma A.K. (2015): Conserved residues at the MAPKs binding interfaces that regulate transcriptional machinery, *Journal of Biomolecular Structure and Dynamics*, DOI: 10.1080/07391102.2014.915764 (IF 2.983)
7. Ranade Y.A., Dharmadhikari S.M. and Wadegaonkar P.A. (2014). Study Of Antimicrobial Activity Of Andrographis Paniculata Activity, Esbl, Resistotyping, Uropathogens. *Indian Journal of Applied Research*, 4 (12): 57-60
8. Wadegaonkar V.P. and Wadegaonkar P.A. (2013). Withanone as an inhibitor of survivin: A potential drug candidate for cancer therapy. *Journal of Biotechnology*, 168: 229-233 (IF 3.221)
9. Ranade Y.A., Dharmadhikari S.M. and Wadegaonkar P.A. (2013). Screening, production, purification and characterization of beta-lactamase from uropathogenic *E. coli* . *European Journal of Experimental Biology*, 2013, 3(1):434-442
10. Wadegaonkar V.P. and Wadegaonkar P.A. (2012). Withaferin A targets apoptosis inhibitor cIAP1: A potential anticancer candidate. *Journal of Applied Pharmaceutical Science* 2 (5), 154-157. DOI: 10.7324/JAPS.2012.2527
11. Deshmukh S.R. and Wadegaonkar P.A. (2012). Expression of Antioxidant Enzymes in Suspension Cultures of and Morinda citrifolia L. and their Effect on Antioxidant Activity. *Journal of Pharmacy Research* 2012,5(10),4983-4986.
12. Jaiswal J.V. & Wadegaonkar P.A. & Hajare S.W. (2012). The Bioflavonoid Galangin Suppresses the Growth of Ehrlich Ascites Carcinoma in Swiss Albino Mice: A Molecular Insight. *Appl Biochem Biotechnol*. DOI 10.1007/s12010-012-9646-3 (IF 1.687)
13. Deshmukh S.R., Wadegaonkar V.P., Bhagat R.P. and Wadegaonkar P.A. (2011). Tissue specific expression of Anthraquinones, flavonoids and phenolics in leaf, fruit and root suspension cultures of Indian Mulberry (Morinda citrifolia L.). *Plant Omics Journal* 4(1), 6-13. (IF 0.777)
14. Wadegaonkar V.P. and Wadegaonkar P.A. (2011). Validation of mode of action of herbal drugs using bioinformatics approach. Proceedings 14<sup>th</sup> Workshop on Biomedical Informatics (Dec 5-6, 2011).

15. Deshmukh S.R., Solomon Habtemariam and Wadegaonkar P.A. (2010). Antioxidant and Antiproliferative Activity of Root Suspension Culture of *Morinda citrifolia* L. ***Research J. Pharm and Tech.*** 3(4)
16. Moharil M.P., Wadegaonkar P.A., Rao N.G.V., Tikar S.N., Rai M.K. and Nimbalkar S.A. (2008). Detection of a Carboxylesterase-Mediated Resistance Mechanism in *Plutella xyloestella*(L.) by Diagnostic Microplate Assay. ***Research Journal of Agriculture and Biological Sciences***, 4(6), 623-629.
17. Bhagwat K.A. and Wadegaonkar P.A. (2007). A reactor for root organ culture. *Patent Application Publication (India)* 35/2007 (1472/DEL/2005).
18. Wadegaonkar P.A., Bhagwat K.A. and Rai M.K. (2006). Direct rhizogenesis and establishment of fast growing normal root organ culture of *Withania somnifera* Dunal. *Plant Cell Tissue and Organ Culture* . 84, 223-225. **(IF 2.612)**
19. Moharil M.P., S.N. Tikar, S.N. Satpute, N.G.V. Rao and P.A. Wadegaonkar (2003). Microplate assay for detection of esterase mediated cypermethin resistance in cotton bollworm, *Helicoverpa armigera* (Hubner). *PKV Research Journal* 27 (1), 67-68.
20. Bhagwat K.A.; S.G. Sherekar .; M.P. Mohril; P.A. Wadegaonkar and M.K. Rai (2002). Studies on *Escherichia coli* genomes: Identification of antimicrobial drug target. *Amravati University Research Bulletin* 1(1), 17-19.
21. Rai M.K.; Deepak Acharya; Ajit Varma; N.J. Chikhale; P.A. Wadegaonkar; Ramteke A.P.; Pawan Kripan and Sarika Shende (2001). Arbuscular Mycorrhizal fungi in growth promotion of medicinal plants. In : *Proceedings of Workshop on Medicinal and Aromatic plants"* held at Chhindwara. (Dec 26-27, 2001), p. 105-110.
22. Wadegaonkar P.A., S.S. Ali & V. Rai (1992). Search for L-Glutaminase and Arginase capacity in species of *Aspergillus* and *Penicillium*. *Biome* 5(1), 87-90.
23. Wadegaonkar P.A., S.S. Ali & V. Rai (1992). Affinity Chromatographic method for rapid purification of fungal L-Arginase. *Biome* 6(2), 88-91

## Book Chapters

1. Shende Sarika, Bhagwat Kanchan, Wadegaonkar Prasad, Rai Mahendra and Varma Ajit (2006). *Piriformospora indica* as potential biofertilizer. Prospects and Limitations. In: A Hand Book of Microbial Biofertilizer. The Harworth Press, Inc. New York. p. 477-496
2. Wadegaonkar P.A. and Wadegaonkar V.P. (2005). L-arginase - a potential enzyme in cancer therapy. In : *Microbial Diversity: Current Perspectives and Potential Applications* (Eds. T. Satyanarayan & B.N. Johri). I.K. International Publishing House Pvt. Ltd., New Delhi. p. 983-992.
3. Rai M.K.; Deepak Acharya and Prasad Wadegaonkar (2003). Plant derived antimycotics : Potential of Asteraceous plants. In : *Plant - derived Antimycotics, Current Trends and Future Prospects.* (Eds. M.K. Rai and Donatella Mores) The Harworth Press, Inc. New York. P. 165-195
4. Wadegaonkar P.A.; Priti Dodiya, A.P. Ramteke, N.J. Chikhale and M.K. Rai (2004). Comparison of amino acid sequence of active site of L-arginase enzymes. In : *Microbiology and Biotechnology for sustainable development.* (Ed. P.C. Jain), CBS Publishers and Distributors, New Delhi. P. 267-276.
5. Moharil M.P., Wadegaonkar P.A., Rai M.K., Tikar S.N., Satpute S.N., Bhagwat K.A., Rao NGV and Nimbalkar S.A. (2004). Enzyme linked immunosorbent assay for *Cry I AC*, insecticidal

- toxin from *Bacillus thurengensis* . In: *Recent Trends in Biotechnology*, Scientific Publisher , Jodhpur
6. Chikhale N.J., Bhagwat K.A., Wadegaonkar P.A. and Rai M.K. (2004). *In vitro* prolongation of dormancy period with encapsulation, hormone treatment and cold storage in *Kalanchoe tubiflora* . In: *Recent Trends in Biotechnology*, Scientific Publisher , Jodhpur .