

Curriculum Vitae

Department of Biotechnology,
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Dr. Prasad A. Wadegaonkar

Date of Birth February 6, 1966

Professional Experience

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 BIBCOLD 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 (UGC) Life Sciences**

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

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

Distinguished Alumni – Department of Microbiology and Bio

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 12th 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	S&T, Govt. of Maharashtra	3.16 L	2001-2006

		(Completed)	a		
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 (On-going)	DBT	44.86 L	2006- Continue
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	20015-18

Patent Filed (#1472/DEL/2005)

“Reactor for Root Organ Culture”

Co-Editor : Amravati University Research Journal

Book edited: “Recent Trends in Biotechnology” Scientific Publishers (India), Jodhpur
ISBN: 81-7233-369-2

Reviewer of International Journals:

Vaccine (IF 3.64)

Tumor Biology (IF 3.611)

Computers in Biology and Medicine (IF 1.459)

African Journal of Biotechnology (IF 0.57)

International Journal of Cancer and Clinical Research

E-Content Developed:

1. Introduction to Bioreactor – Web enabled Video Lectured developed at CEC,
New Delhi

2. Synchronous Culture – Reusable Learning Object

Following learning materials are available on line at -

1. Bioprocess engineering and Technology

2. Animal Cell Science & Technology
3. Drug discovery

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

Managing Positions

1. Coordinator, Bioinformatics Centre of BTISNet (2006- onward)
2. Member, Board of College and University development (2011-15)
3. Member, Committee for Perspective plan for University (2013-17).
4. Chairman, Board of Studies in Bioinformatics (Ad hoc), SGB Amravati University
5. Member, Board of Studies in Biotechnology, RST Nagpur University
6. Member, Patent cell, SGB Amravati University
7. Member, Committee for B.Voc Courses

Life Member:

1. Chattisgarh Botanical Society
2. Association of Microbiologist of India (AMI)
3. Society for Basic and Applied Mycology (SBAM)
4. Biotechnology Research Society of India (BRSI)
5. Asian Federation of Biotechnologist
6. Society for Biotechnologists of India

Research Paper Published

1. Joshi P.A., Pilley H.H., Wadegaonkar V.P. & Wadegaonkar P.A. (2015). Comparative assessment of antioxidant potential of *Cassia auriculata* (linn.) Flower, leaf and seed methanolic extracts. *International Journal of Pharmacy and Pharmaceutical Sciences*, 7(9): 381-385.
2. 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)
3. Wadegaonkar V.P. and Wadegaonkar P.A. (2013). Withanone as an inhibitor of survivin: A potential drug candidate for cancer therapy. *Journal of Biotechnology* doi: 10.1016/j.jbiotec.2013.08.028. (IF 3.221)
4. 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

5. 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
6. 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.
7. 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
8. 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.
9. Wadegaonkar V.P. and Wadegaonkar P.A. (2011). Validation of mode of action of herbal drugs using bioinformatics approach. Proceedings 14th Workshop on Biomedical Informatics (Dec 5-6, 2011).
10. 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)
11. 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.
12. Bhagwat K.A. and Wadegaonkar P.A. (2007). A reactor for root organ culture. *Patent Application Publication (India)* 35/2007 (1472/DEL/2005).
13. 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.
14. 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 bolloworm, *Helicoverpa armigera* (Hubner). *PKV Research Journal* 27 (1), 67-68.
15. 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.
16. 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.
17. 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.
18. Wadegaonkar P.A., S.S. Ali & V. Rai (1992). Affinity Chromatographic method for rapid purification of fungal L-Arginase. *Biome* 6(2), 88-91

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 Donattella 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 .