

CURRICULUM VITAE

Dr. Arpana Hemraj Jobanputra

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Dept. of Microbiology,
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Permanent Address

A/P Shahada, 425409
Dist. Nandurbar
Maharashtra

PROFESSIONAL SYNOPSIS

Results driven Academician with extensive experience in undergraduate and post graduate teaching in Microbiology imparting research guidance to beneficiaries

ACADEMIC DETAILS

Examination Passed	Board/ University	Group/ Subject	Percentage Secured	Class	Year of Passing
Ph.D.	North Maharashtra University, Jalgaon	Microbiology	By thesis	By thesis	2004
M.Sc.	North Maharashtra University, Jalgaon	Microbiology	72.1	First Class With Distinction	1995
B.Sc.	University of Pune, Pune	Microbiology	60.33	First Class	1993

THESIS / DISSERTATION TITLE

Doctor of Philosophy in Microbiology on subject entitled, "Studies on the Physiological and Biochemical Characteristics on *Chryseobacterium* species.

PROFESSIONAL EXPERIENCE

UG: 22 years, PG: 12 Years, Research: 18 years			
Organization Name	Designation	From Date	To Date
PSGVPM's ASC College Shahada	Assistant Professor	01-01-1999	06-09-2008
PSGVPM's ASC College Shahada	Assistant Professor	07-09-2008	06-09-2013
PSGVPM's ASC College Shahada	Assistant Professor	07-09-2013	06-09-2016
PSGVPM's ASC College Shahada	Associate Professor	07-09-2016	To date

ACADEMIC AND ADMINISTRATIVE RESPONSIBILITIES

Responsibility	Period
Head, Department of Microbiology	2010-2015
Member of Local Management Committee	2017, 2018
NAAC: Coordinator for Criteria VIII	2011-2016
Member of BOS in Microbiology	2013-2015, 2018 to date
IQAC member	2011 onwards
Member for evaluation of API	2013-2016
Chairman and Member of workshop on Syllabus framing	2014, 2018
Member of Organizing committee at National Conference	2013-14, 2017-18
Chairman and member examination and evaluation panels	2004-2017
Secretary of Research Committee	2016 to date
Member of Admission Committee	2015-16
Coordinator of Staff Academy of the College	2016 to date
Lady Program officer for NSS	2003-06
Recognized guide of North Maharashtra University	2007 onwards
Organizer of Biodiversity Audit of Campus	2016-2017
Coordinator of Environmental Audit of the College	2016-17

BOOKS, PATENTS, PUBLICATIONS, CONFERENCES & WORKSHOPS

▪ Books	:-	06	
▪ Patents	:-	01	(Indian patent sanctioned in 2005)
▪ Publications (International & National)	:-	28	(16-Int., 12-Nat.)
▪ International Level Conferences	:-	06	
▪ National Level Conferences	:-	06	
▪ Workshops/Seminar	:-	16	
▪ Google Citation	:-	50	<i>h</i> -index:- 04 <i>i10</i> -index:- 1
▪ Research Gate (RG) Score	:-	6.60	<i>h</i> -index:- 03
▪ Research Gate Citations	:-	24	

BOOKS

1. **A. H. Jobanputra & co-writers, (2014)** Essentials of Microbiology, Prashant Publications, Jalgaon (ISBN978-93-84228-18-4)
2. **A. H. Jobanputra & co-writers, (2014)** Applied Microbiology, Prashant Publications, Jalgaon (ISBN978-93-84228-18-4)
3. **A. H. Jobanputra & co-writers, (2010)** Microbiology: Molecular Biology, Microbial Biotechnology, Enzymology, Prashant Publications, Jalgaon (148 pages)
4. **A. H. Jobanputra & co-writers, (2010)** Microbiology: Microbial Diseases, Clinical & diagnostic Immunology, Environmental Microbiology, Prashant Publications, Jalgaon (215 pages)
5. **A. H. Jobanputra & co-writers, (2009)** Microbiology: Microbial Genetics, Fermentation Technology, Microbial Metabolism, Prashant Publications, Jalgaon (145 pages)
6. **A. H. Jobanputra & co-writers, (2009)** Microbiology: Medical Microbiology, Immunology, Applied Microbiology, Prashant Publications, Jalgaon (181 pages)

PATENTS

A. H. Jobanputra and S. B. Chincholkar (2005) "A METHOD FOR BIOTRANSFORMATION OF RIFAMYCIN B TO *S BYCHRYSEOBACTERIUM INDOLOGENES*", Indian Patent No. 196508.

PUBLICATIONS

International

1. Ashwini G. Patil, **Arpana H. Jobanputra (2018)** "Fabrication of Quercetin Loaded Chitosan Nanoparticles and Their Superior In-Vitro Antibacterial Activity against Dental Pathogens" *Inventi Rapid: Pharm Biotech & Microbio*, (3): 1-7. ISSN: 2278-4098

2. Manjula P. Patil, **Arpana H. Jobanputra** and Sumer Singh, (2016) Isolation, screening and polyphasic characterization of Methomyl degrading strain and assessment of its biodegradation potential by GC-MS, International Journal of Scientific & Engineering Research Volume 7 (5), 454-466, ISSN 2229-5518.
3. R. D. Vasait, **A. H. Jobanputra** (2016) Optimization of medium components for the production of Amylase enzyme *Bacillus* species, International Refereed Multidisciplinary Journal of Contemporary Research, VIII, 83-86. ISSN-2319-5789 Online 2320-3145
4. Rajendrabhai D. V, **Arpana H. J.**, (2015) Single step Bioconversion of Cephalosporin C by strain of *Achromobacter* species isolated from rhizosphere soil. Adv. Biores., Vol 6 [3]: 124-127. DOI: [0.15515/abr.0976-4585.6.3.124127](https://doi.org/10.15515/abr.0976-4585.6.3.124127)
5. Patil Ashwini G and **Jobanputra Arpana H** (2015) Formulation, Characterization and Evaluation of a Thermoresponsive *In Situ* Gel Containing Gallic Acid-Loaded Chitosan Nanoparticles for the Treatment of Periodontal Disease, Journal of Bionanoscience, 9 (5), 401-408 DOI: <http://dx.doi.org/10.1166/jbns.2015.1324>
6. **Jobanputra, A.H.**, Vasait, R.D., (2015) Cephalosporin C acylase from *Pseudomonas* species: Production and enhancement of its activity by... Biocatal. Agric. Biotechnol., <http://dx.doi.org/10.1016/j.bcab.2015.06.009i>
7. Rajendrabhai Daulatbhai Vasait and **Arpana Hemraj Jobanputra**, (2015) Relative Assessment of Cephalosporin C bioconversion of soil isolates, Asian Journal of Biochemical and Pharmaceutical Research, 1(5), 246-250. ISSN : 2231-2560
8. Vidya Kothari, **A. H. Jobanputra**, (2014) Monitoring and Analysis of Petrol Biodegradation using Chromatographic Methods, Asian Journal of Microbiol, Biotech Environ Sci, 17, (1), 255-259.
9. Ashwini G. Patil, **Arpana H. Jobanputra** (2014) Rutin-Decorated Chitosan Nanoparticles: Assessment of Anticariogenic Activity, Polymer-Plastic Technology, 54:2, 202-208,[IF: 1.4]
10. Ashwini G. Patil, **Arpana H. Jobanputra** (2013) *In vitro* antimicrobial potential of an active phytoconstituent isolated from the ethanolic extract of *Achyranthes asper* stem against oral pathogens, *International Journal of Advanced Life Sciences*, 6 (5), 549-553, ISSN: 2277-758X.
11. V. R. Kothari, B. A. Karode, **A. H. Jobanputra**, (2012) Biodegradation of Oil and Diesel Compounds using Soil Isolates and Gravimetric Analysis for Utilization of the Individual Substrates, *International Journal of Chem Envi & Pharma research*, 3(1): 87-95.
12. **Arpana Jobanputra**, Ashwini Patil, Bhushan Karode (2011) Evaluation of antibacterial activity of *Azadiracta indica* leaves against dental caries microorganisms by well diffusion method, *International Journal of Biotechnology & Bioengineering research*, 2 (2), 331-336.

National

13. Bhushan Karode, Ulhas Patil, **Arpana Jobanputra**, (2013) Biotransformation of Low Cost Lignocellulosic substrates into Vanillin by White Rot Fungi *Phanerochaete chrysosporium* NCIM 1197, *Indian Journal of Biotechnology*, Vol. 12, 281-283. [IF: 0.6]
14. Chaudhari Varsha, **Jobanputra Arpana**, (2013) Isolation, identification and characterization of novel pigment producing bacteria from distillery spent wash, 7(5): 194-200. ISSN 0974-7435
15. Rajendrabhai D. Vasait, **Arpana H. Jobanputra**, (2013) Screening, isolation and identification of bacterial isolates having potential for bioconversion of cephalosporin C, *Biotechnology: An Indian Journal.*, 7 (4)159-162. ISSN 0974-7435
16. Chaudhari Varsha, **Jobanputra Arpana**, (2013) Screening of significant nutrient parameters for pigment production from newly isolated organism *Planococcus maritimus*AHJ_2 using Plackett-Burman design, *J. Microbiol. Biotech. Res.*, 3 (1): 79-83. ISSN 2231 -3168 CODEN (USA): JMBRB4
17. **Arpana Hemraj Jobanputra**, Bhushan Ashok Karode, Sudhir Bhaskar Chincholkar, (2011) Calcium alginate as supporting material for the immobilization of rifamycin oxidase from *Chryseobacterium* species, *Biotechnol. Bioinf. Bioeng.*, 1 (4): 529-535. ISSN 2249-9075
18. **Arpana Hemraj Jobanputra**, Bhushan Ashok Karode, Sudhir Bhaskar Chincholkar, (2011) Calcium alginate as supporting material for the immobilization of rifamycin oxidase from *Chryseobacterium* species, *Biotechnol. Bioinf. Bioeng.*, 1 (4): 529-535. ISSN 2249-9075
19. **A. H. Jobanputra** and S. B. Chincholkar (2007) Influence of nitrogen sources and heavy metal ions on the production of rifamycin oxidase by *Chryseobacterium* sp. *Journal of Scientific and Industrial research (JSIR)*, 66: 615-617. (IF: 2.5)
20. **A. H. Jobanputra**, G. D. Patil, R. Z. Sayyed, A. B. Chaudhari and S. B. Chincholkar (2002) Microbial Transformation of Rifamycin: A Novel Approach to Rifamycin Derivatives, *Ind. J. Biotechnol*, 2: 370-377. (IF: 1.5)
21. A. H. Jobanputra, A. V. Ahire, and S. B. Chincholkar, (1996) Cellulase and β -galactosidase activities of *Oidium* species in solid state fermentation of banana pseudo stem, *J. Adv. Sci. and Technol.*, I (2): 8-13.

Book Chapter and Reviews

22. Manjula P. Patil, **Arpana H. Jobanputra***, Deepak Kumar Verma, Shikha Srivastava and Anil Kumar Dwivedi, (2018) Bioremediation of Pesticides: An Eco-friendly Approach for A Clean Environment, *Recent advances and innovations in Agricultural Microbiology*, **Apple Academic Press**, USA.
23. Ashwini G. Patil, Pravin O. Patil, **Arpana H. Jobanputra*** and Deepak Kumar Verma (2017), Herbal Formulations for the treatment of Dental diseases: Perspectives, Potential and Applications in Innovations in Agricultural and Biological Engineering: Engineering Interventions in Foods and Plants, **Apple Academic Press**, ISBN hard: 978-1-77188-596-6
24. **A. H. Jobanputra** and B. A. Karode (2012) Microbial transformation of rifamycin by a bacterial strain *Chryseobacterium* species, in *Prospects in Bioscience: Addressing the issues*, Sabu, Abdulhameed: Augustine, Ann. (Eds.) **Springer Publicaions**, ISBN 978-81-322-0809-9.
25. R. Z. Sayyed, **A. H. Jobanputra** and S. B. Chincholkar (2005) *Curvularia lunata*: A versatile organism for biotransformation of organic compounds In: *Current Trends in Mycological Research*: (Ed. M. K. Rai, S. K. Deshmukh), ISBN: 81-7233-403-6.

Chapters in Conference Proceedings

26. **A. H. Jobanputra**, V. R. Kothari, M. P. Patil, (2013) Bacterial Consortia for Bioremediation of hydrocarbons and pesticides, in Current Research in Biochemistry and Microbiology, Proceedings for International Conference on “*Biotechnology for Better Tomorrow*” Rajiv Gandhi Science Centre, Mauritius.
27. **Arpana H. Jobanputra**, Sudhir B. Chincholkar and Bhushan A Karode (2010) Studies on the Scale up of rifamycin biotransformation using *Chryseobacterium* species, *TWOWS proceedings of International Conference on Women Scientists in a Changing World*.
28. A. G. Patil, **A. H. Jobanputra** and B. R. Kamble (2009) The Effect of neem (*Azadirachta indica*) extract on dental caries microbes, *Proceedings of National Conference on Biodiversity, Sustainable Development & Human welfare*.

CONFERENCES/WORKSHOP/SEMINAR

Invited Lectures in Conferences/Workshop/Seminars:

1. “Biodiversity Audit” in Recent Trends in Biodiversity, Conservation and Sustainable Development, National Conference, ASC College, Satana (2016)
2. “Quality Assurance versus Quality Control” in Recent Advances and Innovation for Modernization of drugs delivery in Pharmaceutical Sciences, National Seminar,

PSGVPM's, College of Pharmacy, Shahada (2014)

3. "Interdisciplinary Approaches in Biotechnology" in Advances in Microbial Biotechnology and Interdisciplinary Approaches, National Conference at M.J. College, Jalgaon (2014)

Paper presented in Conferences/Workshop/Seminars:

1. A. H. Jobanputra, Recent Trends in Biodiversity, Conservation and Sustainable Development, National Conference, Satana, **February 2016**, [Lead Lecture, Chairman]
2. Biodegradation monitoring of methomyl insecticide by HPLC using a local soil isolate *Enterobacter* sp., Avishkar, **2015**, [Poster Presentation]
3. A. H. Jobanputra, Recent Advances & Innovation for Modernization of Drug Delivery in Pharmaceutical Sciences, MSBTE sponsored workshop, **2014, December 27-28**, [Oral Presentation].
4. A. H. Jobanputra*, M. P. Patil, Microbial Degradation of Methomyl and its monitoring by GC-MS, International Conference on "Third Global sustainable Biotech Congress 2014, NMU, Jalgaon, **December, 1-5, 2014** [Oral presentation]
5. A. H. Jobanputra*, V. R. Kothari, M. P. Patil, Bacterial Consortia for Bioremediation of hydrocarbons and pesticides, International Conference on "Biotechnology for Better Tomorrow" Rajiv Gandhi Science Centre, Mauritius, November, 11-12, **2013** [Oral presentation]
6. B. A. Karode and **A. H. Jobanputra**, Potential of *Bacillus* species AHJ9 for Dye Decolorization in presence of Diesel and Petrol, DST sponsored National Conference on "Bioengineering Sciences: Present Status & Future Perspectives", College of Engineering, Pune, March 15-16, **2013**. [Oral presentation]
7. Varsha Chaudhari and A. H. Jobanputra, Screening of nutrient parameters..., National Conference on "New Insights of Microbial Biotechnology": UGC & BRSI sponsored, SSV Santha's, ASC College, Dhule, Feb 8-9, **2013**. [Oral presentation]
8. Bhushan Karode and **A. H. Jobanputra**, Biotransformation of Rifamycin to B to S using a Bacterial Isolate: A novel approach for synthesis of semi-synthetic rifamycins, **2nd International conference** on "Challenges in Biotechnology & Food Technology", Annamalai University, Tamil Nadu, Jan.9-10, **2012**. [Oral presentation]
9. **Arpana H. Jobanputra**, Sudhir B. Chincholkar and Bhushan A Karode, Studies on the Scale up of rifamycin biotransformation using *Chryseobacterium* species, International Conference on Women Scientists in a Changing World, Beijing, China, June 27-30, **2010**. [Oral presentation]
10. **A. H. Jobanputra** and S. B. Chincholkar, Siderophores of a novel genus

Chryseobacterium sp., International conference on *Exploring Horizons in Biotechnology: A Global Venture*, Sardar Patel University and CharutarVidyaMandal, VallabhVidyanagar, Gujarat, Nov. 2-4, 2006. [Poster presentation]

11. **A. H. Jobanputra and S. B. Chincholkar**, Influence of nitrogen sources and heavy metal ions on the production of rifamycin oxidase by *Chryseobacterium* sp., National conference on *Path to Health- Biotechnology Revolution in India*, Anna University, Chennai, **Nov. 24-26, 2005**. [Poster presentation]

12. **Jobanputra, A. H.** and Chincholkar, S. B., Effect of iron on growth and siderophore production of *C. indologenes*, International Conference on *Women : environment, energy and biotechnology*, IICT, Hyderabad, Oct. 17-21, 2000. [Oral presentation]

Participation in Conferences/Workshop/Seminars:

Sr. No.	Title of Conference / Symposium / Workshop	Level	Place	Period
1	Syllabus framing workshop (PG)	University	PSGVPM's, ASC College Shahada	July 16 th , 2018
2	Recent Emerging Trends in Plant Science	National	PSGVPM's, ASC College Shahada	September 23 rd 2017
3	Syllabus Restructuring Workshop (UG)	University	SSVPS, Dhule	February, 2014
4	Animal Diversity & Recent Trends in Zoological Research	National	PSGVPM's, ASC College Shahada	6 th -7 th , December, 2013
5	"Recent Emerging Trends in Plant Sciences"	National	PSGVPM's, ASC College Shahada	6 th -7 th , September, 2013
6	"Gandhi Thought : The Only Solution to Corruption & Terrorism,	National	PSGVPM's, ASC College Shahada	23 rd -24 th Dec., 2013
7	Research Methodology Workshop	University	PSGVPM's, ASC College Shahada	February 28 th . 2012
8	Seminar - [Recent Advances in Nanocrystalline Materials & Applications]		PSGVPM's, ASC College, Shahada	6th-7th February, 2009
9	Conference - [Biodiversity, Sustainable Development & Human Welfare]	National	SSVPS College, Dhule	10th-11th January, 2009
10	Workshop on New Trends in Higher Education	University	PSGVPM's, ASC College Shahada	March 1 st , 2009
11	Seminar - [Exploring Horizons in Microbial Biotechnology]		PSGVPM's, ASC college, Shahada	16th February, 2008

12	Seminar - [Emerging Trends at the Interface of Biotechnology]	National	PSGVPM's, ASC College, Shahada	17th-18th February, 2007
13	Symposium - [Developments in Biotechnology: Emerging Trends & Challenges]	National	NMU, Jalgaon	25th-27th November, 2004
14	Workshop - [Intellectual Property rights with special reference to Patents]		NMU, Jalgaon	9th January, 2004
15	Workshop - [Paryavaran Vigyan Avam Taknikishastra]		Rajkot, Gujarat	6th-7th January, 2003
16	Seminar - [Recent Development in the field of Life Sciences]	National	D.N. college, Faizpur	12th August, 2003

RESEARCH ACTIVITIES

RESEARCH SPECIALIZATION

Biotransformation of antibiotics, Bioremediation of pesticides and oils, Biopigment

RESEARCH PROJECTS

(Sponsored projects (MRP/VCRMS/Other) & Consultancy Projects)

Sr No	Title of Project	Name of Sponsoring Agency	Period	Amount in Lakhs	Status of completion
1	Scale up of biotransformation of rifamycin B to S using bacterial isolate	UGC New Delhi	2009-2012	7,51,347	Completed
2	Screening of Siderophoregenic isolates from local soil and their type determination.	UGC-WRO Pune	2004-2006	0.70 lacs	Completed
3	Studies on the Physiological and Biochemical characteristics of <i>Chryseobacterium indologenes</i> .	UGC-WRO Pune	2000-2002	0.32 lacs	Completed

RESEARCH GUIDANCE

Sr.No.	Name of Student with registration number and date of registration	Ph.D / M.Phil.	Thesis Title	Status
1.	Mr. Swapnil Joshi (09-02-2015) NMU/11/Ph.D/Micro/164/2014	Ph.D	Studies on production and application of microbial lipase	Ongoing
2.	Mrs. Mariya Bohari (09-02-2015) NMU/11/Ph.D/Micro/80/2014	Ph.D	Isolation and characterization of keratinase enzyme from potent local isolates	Ongoing
3.	Mr. Mayur Thakare 2018	Ph.D	Title to be finalized	Ongoing

4.	Mrs. Varsha Chaudhari (01-04-2009) NMU/11/Ph.D/Micro/37/2009	Ph.D	Studies on the biochemical & physiological characteristics of pigment producing soil and effluent isolates	Awarded 2018
5.	Mr. Rajendra Vasait (01-04-2009) NMU/11/Ph.d/Micro/40/2009	Ph.D	Studies on biotransformation of Cephalosporin C	Awarded 2018
6.	Mrs. Ashwini Patil (01-04-2009) NMU/11/Ph.D/Micro/42/2009	Ph.D	Studies on the use of consortia of plant extracts on pathogenic bacteria in dental lesion for preparation of sustainable cost effective product	Awarded 2016
7.	Ms. Vidya Kothari (01-04-2009) NMU/11/Ph.D/Micro/43/2009	Ph.D	Studies on oil and petroleum biodegradation potential of natural isolates and their genetic characterization	Awarded 2014
8.	Mrs. Manjula Patil 09-09-2011 2011050066	Ph.D	Biodegradation of Methomyl an oxime carbamate using local isolate	Submitted 2018
9.	Mrs. Manjula Patil	M.Phil	Studies on Rhizoremediation of pollutants using local isolates	Awarded 2010

MEMBERSHIP OF NATIONAL SCIENTIFIC PROFESSIONAL BODIES

- Life Member for Women in Science for the Developing World (OWSDW)
- Life member of Biotech Research Society of India (BRSI).
- Life member of Association of Microbiologists of India (AMI).

DEVELOPMENT OF E-LEARNING DELIVERY PROCESS/MATERIAL

Sr. No.	e-learning delivery process/material	Title of the process/material	Details of the website	No of modules developed
1	PPT	rDNA technology	-	03
2	PPT	DNA replication	-	02
3	PPT	Protein synthesis	-	

CO-CURRICULAR AND EXTENSION ACTIVITIES

Co-curricular activities:

1. Lady program officer for NSS (2003-06)
2. Member of *Uvati* Sabha under women empowerment program (2006-2012)
3. Member for *Uvarang* (2018)

4. Member/Secretary of Science forum (2006-15)
5. Member for Avishkar (2018)
6. Member of sports committee (2017-18, 2018-19)

Extension activities:

1. Consultancy services extended for commercial firms in the Shahada region for evaluation of microbial counts of their products.
2. Paid consultancy services offered to students and research scholars for detection of antimicrobial activity of their extracts.

PERSONAL INFORMATION

Date of Birth : 29th June, 1967
Sex : Female
Marital Status : Married
Languages Known : English, Hindi, Marathi, Gujarati, Kutchi
Local Address : Shahada
Maharashtra, India (425409)

CV Updated upto 01/09/2018