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Dr. Sharad R. Khandelwal

Designation : 1) Associate Professor , Institute of Life Sciences, PG
Department of Microbiology

2) Vice Principal, HPT College Campus,

Nashik-5, from 9th June 200

Reference of Pune University Approval: No. CCW/C-16/4333,

15th Nov 1983

No. CCO/2623, 11-09-1993

Life Member : Gokhale Education Society,

Ref. No. GES/RO/229/2007-08, 10-05-2007

Recognition as P.G. Teacher : No. BUTR/490, 15/6/05.

Recognition as Ph.D. guide (University of Pune):

EXPERIENCE IN HIGHER ACADEMIC EDUCATION

Institution*	Post	From	To	Total (in years and months)
University of Pune (Ahmednagar College, Ahmednagar)	Lecturer (UG level) Microbiology	13.07.1983	14.01.1991	8 years
University of Pune (HPT Arts and RYK Science College Nasik)	Lecturer (UG level) Microbiology	15.01.1991	Till date	23 years
University of Pune (Ahmednagar College, Ahmednagar)	Lecturer (PG level) Microbiology	13.07.1983	14.01.1991	8 years
University of Pune (HPT Arts and RYK Science College Nasik)	Associate Professor (PG level) Microbiology	20.06.2005	Till date	9 years
Total experience				UG 31 years PG 17 years

Major Research Projects

Sl.	Title of the project	Project expenditure (Rs.)	Granting agency	Date of start	Date of completion
01	“Dual process of bio-phytoremediation of Arsenic from contaminated environmental samples: An alternative to traditional methods”	4,60,000/-	UGC, Delhi	28 th March 14	2016 (ongoing)
02	New Challenges of Thermophilic Siderophoregenic Actinomycetes for Applications in Plant Disease Suppression and Synthesis of Biological Nanoparticles	8, 89,000/-	UGC, Delhi	December 2012 to	December 2014 (ongoing)
03	Extraction of heavy metals from Ayurvedic preparations using suitable Siderophoregenic bacteria	1,50,000/-	BCUD PUNE	2006	2008
04	Dynamic activity of Siderophoregenic actinomycetes in growth enhancement	85000/-	UGC Delhi	2007	2009
05	Screening of Siderophoregenic Actinomycetes and its applicability in plant disease suppression	85,000/-	UGC Delhi	2004	2006

Publications in Research Journals

Sl.	Title of the publication	Name of the international journal	Month and year of publication
01	Pawar A N, Ugale S S, More M G, Kokani N F and Khandelwal S R. (2013) biological Degradation of Naphthalele: A new era.	Journal of Bioremediation and Biodegradation	ISSN 2155-6199 Volume 4, (7), 203-208 Impact Factor 3.5 2013
02	Khandelwal S. R. , Sharma L.P.(2013),Microbial degradation of natural and synthetic rubber waste. Pp19	<i>Luminescence: Journal of Research.</i>	ISSN 222749-9016(2013)
03	Bhavsar S P, Deshpande R and Khandelwal S R 2012 Production and partial characterization of Bio-emulsifier from microbes isolated from oil contaminated regions in Nasik'	International Journal of Biotechnology and Biosciences	ISSN NO 2231-0304 Volume 2, (2), 239-247, 2012
04	Khandelwal S , Bhavsar S, Aher P, Wagh P., Matal S., Joshi S. and Kalekar S, (2012),Keratin Degradation: 'A Microbial Venture' Contribution to Science.pp 9-14.	<i>uminescence:Journal of Research</i>	ISSN 222749-9016 (2012)
05	Baviskar J W and Khandewal S R (2011) A dynamic ecofriendly technique of decolorizing textile dye effluent using laccase: a new challenge.	International journal of Biotechnology and Bioscience.	ISSN NO 2231-0304 Volume 1 (4) 416-422, 2011
06	Khandelwal S.R. , kokni N F, Pawar A N, Ugle S S, More M G, (2011), Biological degradation of naphthalene: A new era, <i>Luminescence: Journal of Research.</i> , vol 1, pp 16-20.	<i>Luminescence: Journal of Research.</i> ,	ISSN 222749-9016(2011)
07	Handore A, Bhavsar S P and Khandelwal S R (2011) Determination of Pesticial residue in Indian and Imported wines with respect to International MRLS.	International Journal of Biochemistry and Biotechnology	ISSN 0973-2691 175-1842011
08	Khandelwal S. R. &Aglave B. A. Extraction of Bacteriocin and study of its antigenastic assay (2010).	International Journal of Biotechnology and Biochemistry,	ISSN 0973-2691 volume 6, 349-65 2010
09	Pagare. R. S., Ramdasi A. M., Khandelwal S. R. &Aglave B. A. Production and enzyme activity of an extracellular protease from <i>Aspergillusniger</i> and <i>Bacillussubtilis</i> (2009)	International Journal of Biotechnology and Biochemistry,	ISSN 0973-2691 volume 5, 335-342. 2009

Publications in Research Journals

Sl.	Title of the publication	Name of the international journal	Month and year of publication
10	Manwar A. V., Khandelwal S. R. , Chowdhary B. L., Meyer J. M. &Chincholkar S. B. Siderophore production by marine <i>Pseudomonas aeruginosa</i> and its antagonistic action against phytopathogenic fungi (2003)	Applied Biochemistry and Biotechnology,	ISSN: 0273-2289 volume 11, 243-251. Impact Factor 1.879 2003
11	Khandelwal S. R. ,Manwar A. V., Chaudhari B. L. &Chincholkar S. B. Siderophoregenic Bradyrhizobia boost yield of soybean (2002).	Applied Biochemistry and Biotechnology	ISSN: 0273-2289 155-168 Impact Factor (1.879)2002
12	Manwar A. V., Khandelwal S. R. , Chowdhary B. L., &Chincholkar S. B. Secondary metabolites of fluorescentpseumonads for control of fungal phytopathogens (2001)	Advances in Mycology and Plant Pathology,	48-62. 2001
13	Khandelwal S.R. ,Chaudhari B.L. and Chincholkar S.B. (2002) Rhizobacteria in plant microbe interactions	In: Frontiers in biotechnological aspects of plant sciences.	22-25.2002
14	Khandelwal S.R. ,Manwar A.V., Chaudhari B.L. and Chincholkar S.B. (2000) Dynamism of siderophoregenic Bradyrhizobia in soybean yield improvement,	In: Proceedings of “International Conference on Microbial Biotechnology : Trade and Public Policy” (eds. Vankateshwar Rao,L.&Malik,V.P.)at Osmania University,	(electronic.version :available on http://www.Microbiologyou.com)
15	Khandelwal S.R. ,Manwar A.V., Chaudhari B.L. and Chincholkar S.B. (2001) Soybean yield boosting formulation enjoys an agronomic importance,	Chemical Weekly, XLVI	(50), 157-158. 2001
16	Manwar A.V., Khandelwal S.R. ,Chaudhari B.L., Kothari R.M. and Chincholkar S.B. (2001) Generiotechnology for assured biocontrol of groundnut infections leading to its yield improvement,	Chemical Weekly XLVI	(26), 157-158. 2001
17	Manwar A.V., Khandelwal S.R. ,Chaudhari B.L., and Chincholkar S.B. (2001) Sideroplus: A bio-product for improved yield of groundnut,	Science Tech Entrepreneur,	9(8), 36-37 2001
18	Manwar A. V., Khandelwal, S. R. ,Chaudhari, B. L., Meyer, J. M. and Chincholkar, S. B. (2004) Siderophore production by a marine <i>Pseudomonas aeruginosa</i> and its antagonistic action against phytopathogenic fungi.,.	Applied Biochem. And Biotechnol.,	118, 243 – 251 2004

Publications in Books

Sr.	Title of the book	Name of the publisher	Institutions where referred for study
01	Manwar A.V., Khandelwal S.R. , Chaudhari B.L. and Chincholkar S.B. (2001) Secondary metabolites of Fluorescent Pseudomonads for control of fungal phytopathogens. .	In : Advances in Mycology and Plant Pathology (eds. Gangawane L.V. and Mukadam D.S.) Laxmi art printers Aurangabad, 48-62 2001	National level
02	Manwar A.V., Khandelwal S.R., Chaudhari B.L. and Chincholkar S.B. (2001) Plant growth promoting rhizobacteria for biocontrol of plant diseases.	In : Biological control of Pests (ed. Deshmukh A.M.) at Yashwantrao Chavan College of Science,. Karad 49-68 2001	National level
03	Khandelwal S.R., Manwar A.V., Chaudhari B.L. and Chincholkar S.B. (2002) Dynamic activity of siderophoregenic <i>Bradyrhizobium japonicum</i> NCIM 2746 in growth enhancement and yield improvement of soybean.	In: Frontiers in Microbial Biotechnology and plant pathology and Microbiology, (Eds Manoharachary C., Purohit D.K., Ram Reddy S., Singaracharya M.A. and Girisham S.), North Maharashtra 213-220. 2002	National and international level

Ph.D/M.Phil students guided

Sr.no.	Student	Thesis title	(Years)	M.Phil awarded in
1.	Ms Rashmi Vaniker	Bioremediation focus on the use of hydrocarbon degraders isolated from petrol pump and garage soil	2	2012
2.	Mr Pimputkar	Environmental pollution and its effects on quality of soil, water and chickoo in Bordi Area	2	2008
3.	Ms Anita Handore	Comparative study of in Indian and imported wine: A global Scenario	2	2008
4.	Ms Dipali Deogade	Isolation, Identification and characterization of phosphate solubilizing bacteria from soil (Various districts of Maharashtra)	2	2008
5.	Ms Mistry Varsha	Isolation of Hydrocarbon degrader from marine water and its exploitation	2	2008
6.	Ms Vrushali Divan	New challenges of siderophore production and Chitinolytic activity of thermophilic Actinomycetes: A communicative approach	2	2012
7.	Ms Kalpana Joshi	Communicative Approach of cellulolytic Microorganism producing nanoparticles	2	2012

Registration of eight Ph.D. students under University of Pune is in process

Conferences/Worskhops participated

1. Paper presented at Deccan Education Society's Fergusson College, Pune, Department of Microbiology, National Conference on Modern Analytical Techniques In Microbiology (MATM 2014) **Best Oral Presentation** on 17th and 18th January 2014.
2. Paper presented at OMICS Group –open access, New York, SA OMICS fourth, **World Biotechnology Conference**, North Carolina, USA 23rdto 25th September 2013
3. Paper presentation at **1st International conference** of Leaf protein research held at Marathwada University in Nov., 1982.
4. Paper presentation at **International conference on Environment**, Medical Ethics and Biodiversity held at Ahmednagar College, Ahmednagar in January 1998.
5. Paper presentation at **International Workshop** cum seminar on “Environment, Medical Ethics & Biodiversity” at Ahmednagar on Jan. 13-16 1998.
6. Presented a poster in an “**International Conference on Microbial Biotechnology** : Trade and Public Policy” on 15-17 July 2000 at Osmania University, Hyderabad.
7. Paper presentation is accepted on “**World Lake Conference**” to be held at Jaipur on 28 Sept. to 2 Nov. 2007.
8. Presented a paper on ‘Partial characterisation of siderophores of *Bradyrhizobium japonicum* NCIM 2746’ in ‘National conference on recent trends in biotechnology’ held at Amravati University on 3-5 February 2000.
9. Presented poster on ‘Siderophore producing *Bradyrhizobium japonicum* and its role in yield improvement of soybean’ in ‘Symposium on Biotechnology of plant protection’ held at CAS in Botany, Banaras Hindu University Banaras and received first prize, on 25-27 February, 2000.
10. Attended conference on ‘Biological control of plant promoting rhizobacteria (PGPR) for sustainable Agriculture at Department of plant sciences University of Hyderabad on April 3-4 2000.
11. Presented a poster in an “Internal and Conference on Microbial Biotechnology : Trade and Public Policy” on 15-17 July, 2000 at **Osmania University**, Hyderabad.
12. Participated in the International Symposium **PHYTO PHARMA 2005** at Aurangabad on 4th to 6th Feb. 2005
13. Attended workshop on ‘Preparation for NAAC Peer Team Visit’. Organized at Garware College of Commerce, Pune in Sept. 24, 2003.

Demonstrated experience in leadership

Sl.	Brief description of nature of leadership activity and role played	Documented evidence of achievements in leadership
01	Appointed as Member CAS Committee, Govt. of Maharashtra, Higher Education, Pune	Successfully completed the responsibility
02	Appointed as Member of staff selection Committee by University of Pune for Microbiology	Successfully completed the responsibility
03	Appointed as Co-ordinator M.Sc. Microbiology Practicals, University of Pune	Successfully completed the responsibility
04	Appointed as Co-ordinator IQAC cell 2004 till date	In progress
05	Co-ordinator Science stream since July 2003 till date.	In progress
06	ISO 9001-2000 Co-ordinator since July 2003 till date.	In progress
07	NAAC Co-ordinator 2004 Accreditation.	Successfully completed the responsibility
08	M.Sc. Microbiology Co-ordinator since 2005 till date.	In progress
09	Co-ordinator, Placement Cell since 1991 till 2007.	Successfully completed the responsibility
10	Co-ordinator, M.Philprogramme in Environmental Sciences YCMOU, Nashik 2007-08	Successfully completed the responsibility
11	Chief Rector Boys Hostel HPT Arts and RYK Science College Nasik from 1991 to 2010	Successfully completed the responsibility

Experience of handling Quality issues, assessment and accreditation procedures

Sr. No.	Area	Institution	Period (From ... to and total period in years and months)	Achievements and evidence therefore
1.	Quality issues	ISO 9001-2000 Co-coordinator since	July 2003 till date.	In Progress
		Certified auditor for ISO 9001-2000 Switzerland	1992 till date	In Progress
2.	Assessment and accreditation procedures	Appointed as Co-ordinator IQAC cell	2004 till date	Successfully completed the responsibility
3.	Any other issue (Please specify)	NAAC Co-ordinator Accreditation	2004	Successfully completed the responsibility
		Guided various colleges for preparation of SSR and tips for NAAC Accreditation	Regularly	Successfully completed the responsibility

Technical and Managerial Skills

Technical Skills:

- Openness towards technology and a deep conviction regarding its potential applications in a knowledge-based settings implied.
- Advanced technology has been widely adapted and accustomed. Teaching, Research and Administrative skills have been strongly supported by openness to the technology.
- Practice and the willingness to accept has made the technology comfortable in administration and research

Managerial Skills :

- The far sightedness and long vision used to prepare successful advance strategic plans.
- Ability to generate resources and allocate the same appropriately done. Research Projects and academic-industrial collaborations are the selected resources allocated appropriately
- Capacity to work effectively under pressure and manage work and resources within tight deadlines.
- Proper distribution of responsibility in able hands, meticulous supervision and consistent self-assessment manages work and resources within tight deadlines.
- Appropriate financial management including revenue generation, planning and fiscal control

Corporate Objectives and Leadership Skills

Alignment with corporate objectives and National:

1. Ability to identify the needs of the communities in key sectors by Meetings, questionnaires and communications skills implied to identify the needs of the communities in key sectors.
2. Understanding of the challenges before the National and how Higher Education can respond to developmental needs Workshops and seminars for designing the sessions to handle the credit and non credit systems
3. Understanding Of curriculum development issues, especially those relating to widening participation and social inclusion by Active participation in syllabus curriculum structuring and implementation

Leadership skills :

1. Ability to motivate diverse group of stakeholders
2. Successfully co-ordinating several significant events at organizational level to meet the mission and goals
3. Ability to Strategically implied administration and innovative thinking in research has been accomplished
4. Ability to lead by personal example with openness to new ideas and a consultative approach in implementation of the same by successful consultation and a consistent guiding path to the junior staff

Interpersonal communication and collaborative skills

1. Details of experience in developing and executing National and International collaborative arrangements: Several events successfully handled at regional and district level. Numerous presentations appreciated at national levels. Editorial panel successfully handled internationally
2. Ability to interact effectively and persuasively with a strong knowledge-base at senior levels and in large forums as well as on a one-to-one basis. Strongly effective and appreciable mode of knowledge based interactions with seniors, colleagues in public meetings and one to one communication
3. Evidence of being an active member of professional bodies and associations in pertinent fields.

Leadership Role In Brief

01	Appointed as Member CAS Committee, Govt. of Maharashtra, Higher Education, Pune
02	Appointed as Member of staff selection Committee by University of Pune for Microbiology
03	Appointed as Co-ordinator M.Sc. Microbiology Practicals, University of Pune
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11	Chief Rector Boys Hostel HPT Arts and RYK Science College Nasik from 1991 to 2010

Message to the Research Community

- Innovation in research leading to scientific patents
- Intensive research in Renewable Energy Sources
- Bioremediation of toxic industrial effluents
- Microbial Nanobiotechnology
- Application of Microbial secondary metabolites