

Curriculum vitae

Name : Arvind Madhavrao Deshmukh.

Qualification: **B.Sc.** - Microbiology 1976- Marathwada University, Aurangabad.
M. Sc. - Microbiology 1978 - Marathwada University, Aurangabad.
Ph.D. -Microbiology 1988 - Shivaji University, Kolhapur.

Designation: Professor and Head (From Aug 2005)

Ph. D. Topic: Studies on Soil Actinomycetes of Karad Taluka.

Teaching experience: 32 years at postgraduate level.

Member of:

1. Board of University Teaching and Research, Shivaji University, Kolhapur. (1992 - 1995)
2. Board of Studies in Microbiology, Shivaji University, Kolhapur (1995-2000) (2000-2005)
3. Faculty of Science, Shivaji University, Kolhapur (1996-2000) (2000-2005)
4. Academic Council, M.N. Roy institute for Non formal Education and Research, Karad (May 1999 – 2001)
5. District Environment Committee, Formed by Govt. of Maharashtra. (2000 - 2003) (2003 -2006)
6. Research Committee of Environmental Protection and Research Foundation, Sangali funded by **DST**, New Delhi.
7. Ad. Hoc. Board of Studies in Biotechnology, Shivaji University, Kolhapur. (2002-2007), worked as a chairman for six months.
8. Examination Committee, Shivaji University, Kolhapur. (2000-2005)
9. Board of studies in Microbiology, Solapur University, Solapur. 2005.
10. Research & recognition (RR) Committee in Microbiology and Biotechnology, Solapur University, Solapur. (From 2006 -2010)
11. board of studies in Entrepreneurship ,Solapur University, Solapur.(From 2006-2010)
12. advisory committee for Marathi Vidnyan Parishad, Barshi (From 2006)
13. Member of advisory committee for Lokmangal biotechnology college, Wadala, Solapur. (From July 2007)
14. Chairman of Ad. Hoc Board of Studies in Microbiology, Dr.B.A.M. University, Aurangabad (From Jan 2007 to Feb 2011).
15. Research and recognition committee in Microbiology, Dr.B.A.M.University, Aurangabad (From Nov 2006)
16. Advisory committee for Dr.B.A.M. University, Aurangabad, Sub centre Osmanabad (From June 2006)
17. 32 (5) examination committee Dr.B.A.M. University, Aurangabad (From Jan 2007)
18. Research and recognition committee in Microbiology, R.T.M.Amravati University, Amravati. (From April 2008)
19. 32 (5) examination committee, R.T.M.Amravati University, Amravati. (From October 2009)
20. Research and recognition committee in Microbiology, D.Y.Patil University, Kolhapur (From August 2010)
21. Board of studies in Microbiology of Mumbai University ,Mumbai.(From December 2010-2015)
22. Board of studies in Microbiology, Dr.B.A.M. University, Aurangabad (April 2011 to 2014)
23. Faculty of science in Microbiology Dr.B.A.M. University, Aurangabad (April 2011 to 2014)
24. Chairman, Board of studies in Microbiology, Dr.B.A.M. University, Aurangabad (April 2011 to 2014)

Administrative experience

Working as a head of the department of Microbiology from August 2005

Fellowship:

Biotech Research Society of India has awarded a fellowship in 2005.

Life Member of:

1. Indian Science Congress.
2. Association of Microbiologist of India.
3. Marathi Vidnyan Parishad. Mumbai.
4. National Academy of Biological Sciences.
5. Indian Society of Soil Biology and Ecology.

President of

Microbiologists Society, India.

Member of Governing Council of

Biotech Research Society of India.(2005 to2013)

Ph.D. Guide:

Recognized as a Ph.D. Guide by

1. Shivaji University Kolhapur,
2. Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
3. Yashwantrao Chavan Open University, Nashik.

Conferences / Seminar/ Exhibition organized:

1. Microbiology exhibition in collaboration with Rotract Club of Karad (October **1988.**)
2. State level conference on “Microbial Technology” (December **1996.**)
3. National level conference on “Frontiers in Biofertilizer & Biopesticides” sponsored by **University Grants Commission** (December **1997.**)
4. One day seminar for school going students on “Environmental Pollution & Control” sponsored by **Central Pollution Control Board, Delhi.** (December **1998.**)
5. One day seminar for school going students on “Environmental Pollution & Human health”, sponsored by **Central Pollution Control Board, Delhi & Shivaji university, Kolhapur.** (January **2000**)
6. One day workshop for college girls on “Vermicompost from kitchen waste” sponsored by **Central Pollution Control Board, Delhi & Shivaji University Kolhapur .**(October. **2000.**)
7. Celebrated world environment day by organizing poster exhibition to create awareness among school going students (June **2000**).
8. An International conference of SAARC countries on “Biotechnology in Agriculture, Industry & Environment” sponsored by **Central Pollution Control Board, Delhi, Shivaji University, Kolhapur, Department of Science & Technology, Delhi, Council of Scientific & Industrial Research, Delhi & University Grants Commission, WRO, Pune.** (December **2001**)
9. One day seminar for school going students on “Water Pollution & Control” Sponsored by, **Central Pollution Control Board, Delhi** in (January. **2002**)
10. Celebrated world environment day at Vithamata High School Karad (June **2002**).
11. Poster exhibition on “Environmental Biotechnology” for farmers sponsored by **Central Pollution Control Board, Delhi** (November **2002**).
12. National workshop on “ Emerging Biotechnological Methods in Industrial Waste Management” sponsored by **Dept. of Biotechnology, Delhi, Council of Scientific and Industrial Research Delhi, University Grants Commission, WRO, Pune, Ministry of Environment and Forest, Delhi, Shivaji University, Kolhapur and Maharashtra Pollution Control Board, Satara Division** (Feb-**2003**).
13. One day seminar for school going students on “Environmental Pollution and Control” Sponsored by **Central Pollution Control Board, Delhi** (December **2003**).
14. One day national seminar in Hindi on “ Environmental Pollution and its Biological Control” sponsored by **Shivaji University, Kolhapur and Maharashtra Rajya Hind Sahitya Academy Mumbai.**(Feb-**2004**).
15. One day seminar for school going students on “Environmental Pollution and Control” Sponsored by **Maharashtra Pollution Control Board, Mumbai** (September. **2004**).
- 16 One-day workshop on **Molecular Biology Techniques** sponsored by Bangalore, Genei. (Aug. **2005**).
- 17 National conference on “**Frontiers in Biofertilizers and Biopesticides**” sponsored by **University Grants Commission and Council of Scientific and Industrial Research, New Delhi** (Feb.**2006**).
- 18 One day Seminar on “Dengue fever-Spread and control” (Oct **2006**).
- 19 National conference on “Proteomics, Genomics and Bioinformatics” sponsored by **University Grants Commission** (Feb-**2007**).
- 20 One day workshop on “Intellectual property right and patenting” sponsored by **University Grants Commission, Delhi** (Oct-**2007**)
21. One day seminar for school going students on “Environmental Biotechnology” Sponsored by **Maharashtra Pollution Control Board, Aurangabad.** (January. **2008**).

22. One day regional seminar on “Microbes for better tomorrow” sponsored by Microbiologists Society, India (Sept.2008)
23. National workshop on Biology and Biotechnology of actinomycetes sponsored by **Dept. of Biotechnology, Delhi, University Grants Commission and Department of Science and technology, Delhi.** (Feb. 2009).
24. Jagdeesh Chandra Bose Lecture series on “AIDS” Sponsored by Dr. B. A. M. University, Aurangabad (Jan 2009)
- 25 **Nobel Laureate lecture series** sponsored by Microbiologists Society, India (Nov 2009)
26. An International conference on “Biotechnology for better tomorrow” sponsored by **Indian National Science Academy Delhi, Department of Science & Technology, & University Grants Commission, Delhi.** Organized by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (Feb 2010)

Journal Editor:

- 1 Chief editor of scientific Journal “**Journal of Microbial World**” published by Microbiologists Society.
- 2 Member of editorial board of “**Journal of Current Sciences**” Published by society for sciences, Dumka (Bihar).
- 3 Member of editorial board of “**Indian Journal of Environmental Sciences**” Published by Green Earth Foundation, Jaipur.
4. Reviewer of African **journal Pharmacy and Pharmacology** and **Amarawati Journal of Microbiology**, Amarawati.
5. Member of editorial board of “**International Journal of Biotechnology Research**”
6. Member of editorial board of “**International Journal of Drug Design**”.

Books Written:

- 1 Outlines of Microbiology -1996
2. AIDS in Marathi -1996
3. Hand Book of Media, Stains and Reagents in Microbiology. 1997. Revised edition in 2007

Books Edited (Chief Editor):

1. Selected Topics in Biotechnology-1997
2. Biofertilizers and Biopesticides –1998, Revised edition in 2007
3. Biological control of pests –2001
4. Biotechnology in Agriculture, Industry and Environment– (Sponsored by **Ministry of Environment and Forests, Delhi.**) 2003
5. Emerging Biotechnological Methods in Industrial Waste Management (Sponsored by **Ministry of Environment and Forests, Delhi.**) 2004

Written chapters in book

1. A Text book of Microbiology for Bsc.I of Shivaji University, Kolhapur
2. A Text book of Microbiology for Bsc.II of Shivaji University, Kolhapur

Ph. D. Students:

Fourteen students have obtained Ph.D. degree in microbiology on the topics:

1. Mr. S.W. Kulkarni - 1999
Studies on Soil Actinomycetes of Solapur district.
2. Mr. A. R. Jadhav. 2004
Studies on Actinomycetes from Kalamba and Rankala lakes of Kolhapur.
3. Mr. R .G. Kadam- 2004.
Studies on Methyl parathion Degradations by Soil Actinomycetes from Satara District
4. Mr. Vinay Chougule. 2006
Studies on Actinomycetes from Saline Soils of Sangli District.
5. Mrs. Ujwala Mane 2007
Studies on aquatic Actinomycetes from Krishna River.
6. Mrs. Ujwala Jadhav. 2008
Studies on Aquatic Nonstreptomyces Actinomycetes from Vasant Sagar in Sangali District
7. Mrs. Manisha .Suryawanshi 2009

- Studies on Aquatic Actinomycetes from Shivsagar.
8. Mrs Mahanjani Sarita Uday **2010**.
Characterization of Uropathogenic strains of *Escherichia coli*.
 9. Mr. Prashant Dixit **2010**
Studies on xylanases from actinomycetes
 10. Mr. Shivaji Waghmare **2010**
Studies on biosynthesis of metal nanoparticles and melanin production from isolated actinomycetes
 11. Mr. Anil Salunkhe **2010**
Agroindustrial Waste Treatment through Microorganisms
 12. Mr. Rahul Khobragade. **2010**
Studies on textile dyes decolorization by actinomycetes
 13. Mr. Krishna Bartakke, **2011**
Studies on hemophilic soil actinomycetes
 14. Ms. Rekha Gulve **2011**
Studies on marine actinomycetes from kokan coast of Maharashtra

Two students have submitted Ph.D. synopsis

1. Mr. Nitin Adhapure.
Microbial leaching of metals from electronic waste with special reference to actinomycetes
2. Mr. Sachin Mane
Sero-surveillance of *Pasteurella multocida* and identification of better immunogens by Vaccination-Protection studies.

Three student is working for Ph.D.

1. Ms. M.S, Zagare
Environmental Impact Studies on Microbial Quality of Dairy pack food.

Patent

1. Filed patent on "A method for preparation of microbial sample for scanning electron micrograph" (File no.767 MUM 2008 on 2 nd April 2008)
2. Filed patent on "A process for the removal of dyes in dye containing waste waters and soil" by Indian patent information retrieval system on 01/04/2011 (file no.296/MUM/2011)

Resource Person at:

- 1 Dept. of Biochemistry, Shivaji University Kolhapur for refresher course in microbiology sponsored by U.G.C. (1997).
2. Chh. Shahu Central Institute of Business Education and Research, Kolhapur for master of environmental management student (1998).
3. Dr. P.K. College Sangli in National Symposium on "Environmental Biotechnology" sponsored by U.G.C.(1999).
4. Krishi Padvidhar Sangh, Islampur, Sangli on "Applications of Biofertilizers" for farmers (1999)
5. Dr B.A. Marathwada University, Aurangabad. on "Solid Waste management for UGC sponsored refresher course (1999)
6. S.B.Z. College Barshi, in UGC sponsored national seminar on "Environmental Conservation Problems and Prospects" (2000)
7. N.S.B. College, Nanded for P.G. Students of Microbiology (2000)
8. Dr. B.A Marathwada University, Aurangabad for UGC sponsored refresher course on "Environment" (2000)
9. S.B.Z. College, Barshi, in UGC. sponsored COSIP program. (2001)
10. North Maharashtra University, Jalgaon in UGC sponsored refresher course in Life Science (2001)
11. Panchgani Giristhan Municipal Corporation, Panchgani on "Solid Waste Treatment" (2001)
12. Mahabaleshwar Giristhan Municipal Corporation, Mahabaleshwar on "Waste Treatment and Management" (2001)
13. S.B.Z College, Barshi. in UGC sponsored COSIP program (2002)
14. Rajaram College Kolhapur for B.Sc. Industrial Microbiology students (2002)
15. Dhote Bandhu Science College Gondia in UGC sponsored national seminar on "Impact of Environment Pollution on biosphere and its control" (2003)

16. P.G. Dept. Of Microbiology, Moolijee Jaitha College, Jalgaon (2003)
17. Dept. Of Agrochemical and Pest Management, Shivaji University, Kolhapur.(2003)
18. Rajaram College Kolhapur for B. Sc. Industrial Microbiology students (.2003).
19. North Maharashtra University Jalgaon, in National Conference of BRSI (2004)
20. University of Agricultural Sciences, Bijapur, Karnataka in UGC sponsored Southern regional conference on “Microbial Inoculant” (2004)
21. UGC sponsored refresher course in “Recent trends in biotechnology” at Vidya Pratishthan’s School of Biotechnology, Baramati. (March -2005)
22. Mokashi Food and Technology College, Karad, for B. Tech. students (2004)
23. UGC sponsored national conference on “Microbial Technology for Sustainable Agriculture” organized by D.B.F.Dayanand college of Arts and Science, Solapur.(2006)
24. Lecture on “ Entrepreneurship” at Lokmangal Biotechnology College, Wadala Solapur (2006).
25. Polytechnic College, Osmanabad on “Environmental pollution” (2006)
26. In UGC sponsored national seminar on “Role of Biotechnology in Waste Water Management”in Dhote Bandhu Science College, Gondia (2007)
27. In UGC sponsored national seminar on “Biotechnology for sustainable Development” in Shivaji College, Barshi. (2007)
28. UGC sponsored national conference on “Interface in Biotechnology” in Shahada (2007)
29. One day seminar on Biotechnology organized by Dnynopasak College of Arts Commerce and Science, Parabhani (2008)
- 29 National conference on “New horizons in Biotechnology” organized by Swami Vivekanand Mahavidyalaya Udgir.(2008)
29. C.V.Raman lecture series organized by Government college of Arts and Science, Aurangabad (2008)
- 30 UGC sponsored regional level workshop on Instrument Training organized by Badrinarayan Barwale Arts, Commerce and Science College, Jalana (2008)
- 31 UGC sponsored national seminar on “Role of Microorganisms in Industrial Effluent Treatment” organized by Kesarbai Kaku Arts, Science and Commerce College, Beed (2008)
32. Chaired a session in UGC, DST, CSIR sponsored national conference on “Microbiology from Education to Industry organized by Netaji Subhash Chandra Bose College Nanded (2008)
33. One day Workshop on, Revised Syllabus in B.Sc. Microbiology in Adarsh Mahavidyalaya, Omerga, Dist- Osmanabad (. 2008)
34. UGC sponsored National seminar on “Recent trends in Biodiversity and Bio-science” in Shri Madhavrao Patil Mahavidyalaya, Murum Tal. Omerga (2009).
- 35 One day Seminar on ‘Recent trends in Effective Teaching’ organized by Lokmangal Biotechnology College Wadala, Sholapur (2009)
- 36 State level seminar on “Recent Trends In Fermentation Technology” organized by Dayanand College, Latur (2009)
- 37.One day Workshop on, Revised Syllabus in B.Sc. Microbiology in Sir Sayyed College of Arts Commerce and Science, Aurangabad (2009) .
- 38.UGC sponsored national conference on “Biodiversity and Conservation of Nature and Natural Resorces” organizedby D.B.F.Dayanand college of Arts and Science, Solapur.(2010)
- 39UGC,DST,CSIR sponsored national conference on “Biotechnology for Better Tomorrow” organized by Shivaji College Akola.(2010)
- 40 One day Workshop on, Revised Syllabus in M.Sc. Microbiology at Institute of Science,Aurangabad (. 2010)
- 41UGC sponsored national conference on “Nanomaterials and Nanostructures” organized by Department of Chemistry,Gulberga University,Gulberga.(2010)
- 41.Jalgaon
- 42 Pune University sponsored State level conference on “Extraction of metals from printed circuit board by actinomycetes” organized by Modern College,Pune(25-26 Feb 2010
- 43 For M.Sc. students at Vidya Pratishthan Biotechnology College,Baramati(2011)

Key note address at

- 1.UGC sponsored National seminar on “Recent trends in Microbial Technology” in Deogiri College Aurangabad. (2010).

2.UGC sponsored National seminar on “Technology Foresight in Life Sciences” in Maulana Azad College Aurangabad (2010).

Refresher Course Attended at:

1. Hariyana Agri. Univ. Hisar 1983.
- 2.Rani Durgavati Univ. Jabalpur 1983

Research Projects completed:

Co investigator

1. UGC Sponsored minor Research project on “Studies on the Krishna River Ecosystem in between Karad and Sangli (Maharashtra State) Under Project Director, Dr. D. B.Boralkar. in 1980

Principal Investigator

1. Minor research project sponsored by UGC in Aug. 1998 on “Interaction Effect of *Rhizobium* and press mud compost on yield of gram *Cicer arietinum*” Amount sanctioned - Rs.36 thousand

Principal investigator for ongoing Research Projects :

1. Reserch project sponsored by Agricultural Dept of Maharashtra Government on “ Effect of various biofertilizers on the yield of different crops”.(August 2008-2010) Amount Sanctioned **1.26 Lac**
2. “Azo dye decolourization by actinomycetes”sanctioned by UGC as a major research project for three years from June 2009 Amount Sanctioned **9.21 Lac**
3. Reserch project sponsored by Agricultural Dept of Maharashtra Government on “ Effect of various biofertilizers on the yield of different crops”.(August 2008-2010) Amount Sanctioned **3.26 Lac**

Research project applied-

1. Biosynthesis of metal nanoparticles by isolated actinomycetes (applied to DBT , Delhi).

National Seminar / Conference / Workshop attended:

1. 28th Annual Conference of Association of Microbiologists of India at Pune Jan. 1998.
2. National Seminar on “Ecology and Environment” Supported by Ministry of Sciences & Technology Organized by Mugara Gagan Hingoli (Feb. 1998).
3. Seminar in Microbiology at Yashwantrao Chavan Institute of Sciences , Satara Sponsored by UGC (June -1992).
4. National Seminar on “Environment Protection” Sponsored by UGC at Bharthi Vidyapeeth, Sangli (Nov.1992).
5. 37th Annual Conferences of the Association of Microbiologists of India at Madras (dec.1996)
6. 39th Annual conferences of Association of Microbiologists of India at Mangalore,Karnataka. (dec.1998)
7. State level conferences on “ Recent Trends in Biotechnology for Rural and Industrial Development” organized by Shahu College Latur (Feb-1999).
8. Annual meet on “energy, ecology & environment” organized by school of energy studies Shivaji University Kolhapur Maharashtra (Jan 2000.)
9. 40th Annual conferences of association of Microbiology of India at Bhubaneswar , Orissa on 23-25th (Jan 2000)
- 10.National conferences on “ Recent Trends in Biotechnology” sponsored by UGC held at Allepy, Kerala (March - 2000)
11. National Symposium on Environmental Biotechnology sponsored by UGC and organized by Bharthi Vidyapeeth’s Dr. Patangrao Kadam Mahavidyalaya of Arts, Sciences and Commerce, Sangali (Feb-1999)
12. 88th session of Indian Sciences Congress held at Indian Agriculture Research Institute, Delhi (Jan. 2001)
13. National seminar on “Microbial Technology in Industry and Agriculture” sponsored by UGC Organized by Yashwantrao Chavan institute of sciences Satara Maharashtra (March-2002)
14. Info- biotech congress sponsored by UGC and organized by Bharati Vidyapeet’s Dr. Patangrao Kadam Mahavidyalaya of Arts Sciences and Commerce Sangli (Sep-2002).
- 15 Workshop on “ New syllabus of M.Sc.-1”organised by Yashwantrao Chavan College of Science Karad 2004
- 16.Workshop on “ New syllabus of M.Sc.-11”organised by Yashwantrao Chavan College of Science Karad 2004
- 17.Interactive workshop on biofertilizers organized by Indian Agriculture research Institute,New Delhi

2004

18. Workshop on “Molecular Biology Techniques” organised by Yashwantrao Chavan College of Science Karad 2004
 19. National conference on “Path to Health- Biotechnology Revolution in India” organized by Anna University, Chennai. Nov 2005
 20. Workshop on “Basic DNA Techniques” held at Academy’s Eukaryote Biotechnology Training Centre Pune (22-27 May 2006).
 21. Conclave of Science Faculty held at Swami Ramanand Teerth Marathwada University, Nanded, 2008
- Presentations**
1. Sarita U. Mahajani and **A. M. Deshmukh** Study of virulence associated factors in uropathogenic & Enteropathogenic E. coli. Presented in National Conference on “Recent Trends & Strategic Development of Microbiology” sponsored by University of Pune and conducted by Waghire College of ACS, Saswad, Pune, on 28th – 30th December, 2008.
 2. Sarita U. Mahajani and **A. M. Deshmukh** . Antibiotic resistance pattern in selected serogroups of E. coli isolated from urinary tract infection. Presented in National Conference on “Recent Trends & Strategic Development of Microbiology, sponsored by University of Pune and conducted by Waghire College of ACS, Saswad, Pune, on 28th – 30th December, 2008.
 3. Sarita U. Mahajani and **A. M. Deshmukh** . Utilization of SDS-PAGE of whole cell proteins for characterization of pathogenic *Escherichia coli*. In International conference on “Advances in Biosciences – From Darwin to Dolly and Beyond”, at Yeshwant Mahavidyalaya, Nanded. M.S., on 12 -14th February, 2009.
 4. Sarita U. Mahajani and **A.M.Deshmukh** Pathogenicity characteristics of uropathogenic *Escherichia coli* serogroups. in National Conference on ‘Frontiers in Biological Sciences’, at Sardar Patel University, Gujarat on 27th & 28th February, 2009.
 5. Adhasure N.N. S.G. Pathak and **A.M. Deshmukh**, Microbial solubilization of metals from waste printed circuit board. in International conference on "Biotechnology for Better Tomorrow" organized by Dept of Microbiology, Dr. B.A.M. Univ. Subcampus Osmanabad 6-9 Feb 2010
 6. Kulkarni S.W. and **A. M. Deshmukh**. Antimicrobial activity of actinomycetes” National Conference on “Frontiers in Biofertilizers and Biopesticides” Dec. 28 – 29, 1997.
 7. Kulkarni S.W. and **A. M. Deshmukh** “Phosphate solubilising soil Actinomycetes as biofertilizers National Conference on “Frontiers in Biofertilizers and Biopesticides” Dec. 28 – 29, 1997.
 8. Kulkarni S.W. and **A. M. Deshmukh** “Studies on tolerance of soil actinomycetes of Solapur dist from Maharashtra.- 38 th AMI Conference, 1997.
 9. Kulkarni S.W. and **A. M. Deshmukh** Arsenic resistant soil Actinomycetes” International Conference on “Arsenic pollution of ground water in Bangladesh – Cause effect and remedy” Feb. 8 – 12, 1998.
 10. Kulkarni S.W. and **A. M. Deshmukh** Studies on Arsenic resistance of soil Actinomycetes” International Conference on “Environment and Agriculture” Kathmandu – Nepal, Nov. 1 – 3, 1998. .
 11. Kulkarni S.W. and **A. M. Deshmukh** Relative population of Actinomycetes in total Microbial population in different soil types” .In International Conference on “Microbial Biotechnology – Trade and public policy. Organised by Department of Microbiology Osmania University Hyderabad. – July 15 – 17, 2000
 12. Kulkarni S.W. and **A. M. Deshmukh** Relative population of Actinomycetes and their possible use as biofertilizer in saline soil.” In international Conference of SAARC Countries on “Biotechnology in Agriculture, Industry and Environment,” Dec. 28 – 30, 2001, E – 41:162
 13. Kulkarni S.W. and **A. M. Deshmukh** Actino-Rhizo culture as biofertilizer in National Conference on “Biofertilizer & Biopesticides”, held at Dr. B.A.M. Univ. Osmanabad (2006).
 14. Salunke A.K. and **A.M.Deshmukh** Abatement of environmental pollution through biometanation of liquid composite waste from glucose factory for conservation of aquatic environment” was orally presented in international conference on “Technology for mitigation for environmental pollution and their applications in conservation of aquatic ecosystem” organized by Dept of Zoology ,Dr.B.A.M. University and Lubin university of Technology Lubin ,Poland 11-13 Dec 2008.
 15. Salunke A.K. and **A.M.Deshmukh** Pollution control of waste water from agroindustries by the use of microorganisms was orally presented in state level conference on “Biotechnology for Rural Development” organized by Adarsh Mahavidyalya Omerga. Dist Osmanabad 20-21 Feb 2009

- 16 Sapkal M.L. and **A.M.Deshmukh**. "Isolation and thermal activation effect on growth of actinomycetes" In National symposium "Developments in national conference on Biotechnology-Emerging Trends and Challenges" 25-27 Dec. 2004
- 17 . Sapkal M.L. and **A.M.Deshmukh**. "Morphological studies of aquatic Actinomycetes" In national conference on Microbial Technology for sustainable Agriculture" Organised by DBF Dayanand College of Arts and Science, Solapur 23-24 Jan 2006
- 18 Sapkal M.L. and **A.M.Deshmukh** "Biosynthesis of Gold and Silver nanoparticles using *Streptomyces ramesus* strain NBR In National conference on Recent Trends in Biotechnology in context of Animal development and environmental Biology" organized by Dept of Zoology, Arts Science and Commerce College, Indapur 28-30 Jan 2008
- 19 Sapkal M.L. and **A.M.Deshmukh** "Intracellular Biosynthesis silver nanoparticles by *Streptomyces* Species LD O21 In national conference on The role of care taker in Biosphere" organized by Dept of Botany, Vidya Pratishthas college of Arts Science and Commerce, Baramati 14-16 Feb 2008
- 20 Sapkal M.L. and **A.M.Deshmukh** "Biodiversity of Aquatic actinomycetes" in Court 2007 organized by Shivaji University Kolhapur 2007
- 21 .Sapkal M.L. and **A.M.Deshmukh** Biosynthesis of Silver Nanoparticles by *Streptomyces* Species, In International conference on "Nanomaterials and Nanomedicine" Organised by D.Y.Patil University, Kolhapur, 21-23 Oct 2010
- 22 .Sapkal M.L. and **A.M.Deshmukh** Biosynthesis of Gold nanoparticles by *Streptomyces* Species LD O21 In national conference on "Biodiversity conservation in India status and Approches Organised by Gokhale college Kolhapur and Indian Women scientist Association at Panhala 8-10 Jan 2010
- 23 Gulve R.M. and **A.M.Deshmukh** 2009 "Antimicrobial activity of marine actinomycetes" In 50 th Annual conference of AMI, Organised by NCL, Pune
- 24 Gulve R.M. and **A.M.Deshmukh** Biodiversity of Marine actinomycetes, Organised by Department of Botany, Institute of Science, Aurangabad 26 Feb 2010
- 25 Gulve R.M. and **A.M.Deshmukh** Identification of potent antibiotic producing *Streptomyces* from marine sediments" In National conference on "Recent Trends in Environmental Toxicology" organized by Miliya Science College, Beed. 4-5 Aug 2010
- 26 Gulve R.M. and **A.M.Deshmukh** Antagonistic and Anticarcinogenic *Streptomyces* isolate from marine sediments" In International conference on "Biotechnology for Better Tomorrow" organized by Dept of Microbiology, Dr. B.A.M.Univ. Subcampus Osmanabad 6-9 Feb 2010
27. Baratakke K.V. and **A.M.Deshmukh** "Application of solid state fermentation for agroindustrial waste management" In National conference on "Recent Trends in Environmental Toxicology" organized by Miliya Science College, Beed. 4-5 Aug 2010
28. Baratakke K.V. and **A.M.Deshmukh** "Optimization studies for the production of alpha amylase by thermophilic soil actinomycetes by solid state fermentation" In International conference on "Biotechnology for Better Tomorrow" organized by Dept of Microbiology, Dr. B.A.M.Univ. Subcampus Osmanabad 6-9 Feb 2010
29. Waghmare, S.S., **Deshmukh, A.M.**, Biosynthesis of gold nanoparticles by *Streptomyces* sp. in International conference on "Biology and Biotechnology for Better Tomorrow- organized by Dept. of Microbiology, Dr. B.A.M.U. Aurangabad subcampus, Osmanabad (M.S.) INDIA held on 7th Feb 2011.
30. Waghmare, S.S., **Deshmukh, A.M.**, Recent advances in nano science", jointly organized by Dept. of Chemistry, Dr. B.A.M.U. subcampus Osmanabad and Dept. of Chemistry, R.P. College, Osmanabad, (M.S.) INDIA. on 23rd and 24th Feb 2008
31. Waghmare, S.S., **Deshmukh, A.M.**, Antimicrobial activity of Garlic extract" In National Symposium on Genomics, Proteomics and Bioinformatics organized by Dept. of Biotechnology, Dr. B.A.M.U. subcampus Osmanabad (M.S.) INDIA held on 9th and 10th Feb. 2007
32. Khobragade R.M.in and **A.M.Deshmukh** Decolourization of reactive blue HERD by thermophilic *Streptomyces* species." In national seminar on Biocatalysis and Biomimetic catalysis in organic synthesis" organized by Department of Chemistry, , Dr. B.A.M.U. subcampus Osmanabad (M.S.) INDIA march 20-21, 2009.
- 33 . Khobragade R.M.in and **A.M.Deshmukh** Biodegradation of textile dye reactive blue 160 by thermophilic *Streptomyces* species "Biology and Biotechnology for Better Tomorrow- organized by Dept. of Microbiology, Dr. B.A.M.U. Aurangabad subcampus, Osmanabad (M.S.) INDIA held on 6-7 Feb 2011

34. Chougule V.V. and **A.M.Deshmukh** "Salt tolerance of actinomycetes from saline soils": In International conference of SAARC countries on "Biotechnology in Agriculture, Industry and Environment," organised by Microbiologists society, Karad, 1999..
35. Chougule V.V. and **A.M.Deshmukh** A diversity of actinomycetes in saline soil: Poster was presented in national seminar on "Recent trends in Industrial Biotechnology." held by Department of Microbiology, at Modern College, Vashi, 2005.
36. Chougule V.V. and **A.M.Deshmukh** Physicochemical and microbial properties of saline soils: In one day seminar organized by Center for Community Development, Shivaji University Kolhapur, 2005
- 37 Chougule V.V. and **A.M.Deshmukh** Relative population of actinomycetes from saline soils: In Campaign on university research and training. Shivaji University, Kolhapur. 2002.
38. Chougule V.V. and **A.M.Deshmukh**. Biochemical activity of actinomycetes from saline soils :In National conference on "Microbial Technology for Sustainable Agriculture." organized by Department of Microbiology D.B.F. Dayanand College of Art and Science, Solapur, 2006.
- 39 Chougule V.V. and **A.M.Deshmukh**. Phosphate solubilizing actinomycetes from saline soil: In National conference on "Frontiers in Biofertilizers and Biopesticides" organized by Dr. Babasaheb Ambedkar Marathwada University, Subcentre Osmanabad and Biotech Research Society of India, 2006
- 40 Chougule V.V. and **A.M.Deshmukh** Efficiency of *Azotobacter chroococcum* on the growth of *Oryza sativa* [Rice] In National Conference on Recent Trends In Bio-pesticides And Bio-fertilizers organized by Sahree Sadguru Gadage Maharaj College, Karad Dist : Satara. 2009
- 41 Chougule V.V. and **A.M.Deshmukh** Isolation of *E.Coli* from Food Products of Hospital Area in Miraj City' In National conference on Present scenario of Environmental Pollution and It's Effect on Living Organisms' held at Govt. College of Arts and Science, Aurangabad in collaboration with National Environmentalists Association. (M.S.), 2008
42. Chougule V.V. and **A.M.Deshmukh** Efficiency of Nitrogen Fixing *Azotobacter chroococcum* on the growth of *Triticum vulgare*' In State Level Conference on 'Green Chemistry' held at Rayat Shikshan Sanstha's, Dhahiwadi college, Dhahiwadi, Tal : Man, Dist: Satara. 2010
43. Jadhav A. R. and **Deshmukh A. M.** 2001. Isolation of actinomycetes from Rankala Lake and Kalamba Lake of Kolhapur District." in Campaign on University Research and Training. Shivaji University, Kolhapur.
44. Jadhav A. R. and **Deshmukh A. M.** 2002. Biochemical activities of actinomycetes isolated from Rankala Lake and Kalamba Lake of Kolhapur District." in Campaign on University Research and Training. 2002. Shivaji University, Kolhapur.
45. Jadhav A. R. and **Deshmukh A. M.** 2003. Studies on actinomycetes from Rankala Lake and Kalamba Lake of Kolhapur District: summary and conclusions." in Campaign on University Research and Training. 2003. Shivaji University, Kolhapur
46. Mane u.v. and **Deshmukh A. M.** Physico chemical and microbial characteristics of Krishna river water in Satara District. in MICRO -BIOTECH 2005-AMI conference, Organised by Osmania University Hyderabad 8-10 Dec 2005
47. Mane u.v. and **Deshmukh A. M** Biodegradation of textile dye NAVY BLUE Rx by an isolated Actinomycete *Streptomyces krainskii* in BRSI convention and international conference on EXPLORING HORIZONS IN BIOTECHNOLOGY -- A GLOBAL VENTURE organized by Sardar Vallabhbhai Patel University, Vidyavallabhnagar, Gujarat 2 - 4 Nov 2006
- 48 Mane u.v. and **Deshmukh A. M** "Biodiversity of actinomycetes in Krishna river water in Satara District" at international conference on "Biotechnology for Better Tomorrow" organized by Dept of Microbiology, Dr. Babasaheb Ambedkar Marathwada University Subcampus Aurangabad. 6-9 Feb 2011

Prizes for Paper/ Poster:

1. Awarded **first** prize for the paper on production of "Xanthan gum production by isolated *Azotobacter*" in National conference on "Recent trends in industrial biotechnology" organized by Modern College Washi, Mumbai (2005).
2. Awarded **third** prize for the paper Biosynthesis of silver nanoparticles by using actinomycetes in International conference on nanomaterials and applications organized by Dept. of Chemistry and Physics, Shivaji University Kolhapur, (2008).

3. Awarded **second** prize for the poster “Synthesis of gold and silver nanoparticles by using *Streptomyces hygrosopicus*” in National conference on “Bionanotechnology-Applications and Prospects” organized by Abeda Inamdar Senior College Pune, (2009)

International Conferences / Workshop attended:

1. **Oral presentation** in 5th International symposium on “Microbial Ecology” form in 1989 at Kyoto (**Japan**.)
2. **Oral presentation** in the International conference on “Environment and Agriculture” organized by Ecological Society in 1998, at Katmandu (**Nepal**)
3. **Poster presentation** in the International conference on “Microbial Biotechnology- Trade and Public Policy” organized by Osmania University **Hyderabad**. Andrapradesh **India**. (15-17 July 2000)
4. International conference on “ New Horizons in Biotechnology” organized by Regional Research Laboratory, **Trivandrum**, Kerala **India** (18-19 April 2001)
5. Workshop on “ Metabolic Engineering” Pathumathani, **Thailand** (13-17 Oct. 2003)
6. Bangladesh Botanical Conferences at Rajshahi University, **Bangladesh** (23-25 Dec.2004)
7. International Workshop on Biotechnology of Anaerobic Bacteria and Archea Organised by ARI, **Pune** and SIDA, Sweden.at Pune, **India** March 2006
8. International conference on Environment 2006” held at Penang, **Malayasia** 13-15 Nov. 2006.
9. Chaired a session in International conference on “New horizon in Biotechnology” organized by Biotech Research Society, at **Trivandrum** India **2007**.
10. Paper entitled “Biomethanation potential of corn glucose factory composite waste” was accepted for oral presentation in the International conference on “ Energy for sustainable development” going to be held at **Karachi (Pakistan)** during 11-13 Nov 2008
11. Presented a paper in 3rd International Congress on “Bioprocesses in Food Industries” organized by Osmania University, **Hyderabad**. **India** 6-7 Nov 2008.
12. Presented a paper in International Conference on “Cellular and Molecular Biology Science” organized at **Singapore** during 26-28, Feb 2010 and also chaired a session.
13. Presented a paper in International Conference in oral session organized by Indonesian Society for Microbiology, at Bogor, **Indonesia** and also chaired a session.
14. Presented a paper in the sixth Dubai International Food safety Conference in poster session organized by Food control department, Government of Dubai ,at **Dubai**. During 28 Feb to 01 March 2011

Visiting Scientist at:

1. Post graduate Institute of Science, Peradeniya University at **Sri Lanka** to teach Biotechnology to M. Sc. Students (2003)
2. Resource person in National Conference on “Biofertilizer and Biopesticides” organized by **Peradeniya University Sri Lanka** (2007).
3. Resource person at sherbutse college. Royal University **Bhutan** to teach undergraduate students on “Biotechnology for better tomorrow”2010
4. Resource person in National workshop on “Microbiology-Fundamentals and Applications” organized by **Mauritius university** ,**Mauritius** (2011).

Examiner: Examined M.Sc., M. Phil. & Ph. D. Microbiology candidates from different Universities of India and abroad.

T .V. Appearance: Appeared on T. V. on Sahyadri Channel News and National News regarding my interview on Environmental awareness.

Countries Visited Bhutan, Bangladesh, Nepal, Srilanka (Two times), Japan, Singapore, Malaysia, Thailand, Indonesia, Mauritius.

Research Paper Published:

In the peer reviewed Journal

- 1 **Deshmukh A.M.** and S. H. Godbole 1998 Studies on soil actinomycetes of Karad Taluka: Ecology of Actinomycetes: *Recent Res. Ecol. Environ. and pollu.* **1**:61-73.
5. Boralkar D.B., R. K. Trivedy, S. G., Pathak, **A. M. Deshmukh** and M.A. Patil 1982. Studies on soil pollution along the Krishna River in the State of Maharashtra *Jour. Environ. Bio.* **3**(3) :113-117.
6. **Deshmukh A.M.**and S. H. Godbole 1998. Biochemical activities on actinomycetes in relation to soil types *Jour. Environ. and Pollu.* **5**(3):199-204.

7. **Deshmukh A. M.** and S.H. Godbole. 1998 Antagonistic activity of actinomycetes in relation to soil types *Ind.J. Environ and Ecoplan.*, **1** (3):39-47
8. **Deshmukh A. M.** and S.H. Godbole .1999.Studies on Actinomycetes population in soil of Karad Taluka *Ind.J. Environ and Ecoplan.***3**(1): 105-133
9. Kulkarni S.W. and **A. M. Deshmukh**. 2001 Tolerance of soil actinomycetes to inhibitory substances. *Ind. J. Environ Sci.* **5** (1): .51-56
10. **Deshmukh A.M.** and S. H. Godbole 2000 Generic distribution of actinomycetes in relation to soil Characteristics. *Jour Environ. and Pollu.* **7**(4): 319-325.
11. Kulkarni S.W. and **A.M. Deshmukh**. 2001 Interaction effect actinomycetes with *Rhizobium* on the growth of Mung (*Phaseolus aureus*) *Ind J. Environ and Ecoplan.* **5**(3): 487-492.
9. Pathade G. R. Molletei and **Deshmukh A.M.** 2003 Enteropathogenic bacterial studies on drinking water in Karad city with references to drug sensitivity of the isolates. *Nature environ. and pollu.technology* **2**(2) 157- 162.
10. Jadhav A.R. and **Deshmukh A.M.** 2004. Control of tomato wilt disease caused by *Fusarium oxysporum flycopersici* by the use of antagonistic actinomycetes *Streptomyces violaceusniger*” *Jour. environ. and pollu. tech.* **1**:251-254
11. Jadhav A.R. and **A.M. Deshmukh**. 2004.Aquatic actinomycetes: tolerances to various inhibitory Substances. *Jour. curr. Sci.* **5** (1): 361- 364.
12. Bankar J.T.and **A.M. Deshmukh**.2004 Bacteriological characters of drinking water from public place in Satara district Maharashtra. *Jour of Aqua. Bio.* **19** (1): 227-301
13. **Deshmukh A.M.** 2004. Interaction effect of pressmud compost and *Rhizobium* on the growth of gram (*Cicer auritinum*). *Jour. Curr. Sci.* **5** (2): 549- 554.
14. Pawar V. A. and **Deshmukh A.M.** 2005. Isolation and characterization of salt tolerant *Azotobacter* from saline and normal soils. Nature environment and pollution technology. *Nature Environ. and Pollu. Techno.* **4** (3): 473- 476
15. A.R. Jadhav and **A.M. Deshmukh** 2005. Keratinolytic activity of *Streptomyces fradiae* isolated from Rankala Lake water, Kolhapur, Maharashtra, *J. Aqua.Biol.* **20**(2) : 1-4.
16. A.R. Jadhav and **A.M. Deshmukh** 2005. Aquatic actinomycetes: Their enzymatic activities. *Nation.. Jour. of Life Sci.* **2**: 437-440.
17. Ghadge D.R. and **Deshmukh A.M.** 2006. Studies on pigment producing microorganisms from natural Ecosystem. *Environ. and Eco.* **24** (1): 81-84
18. Jadhav A.R. and **A.M. Deshmukh** 2006. Biodiversity of actinomycetes in Rankala and Kalamba lakes of Kolhapur, Maharashtra. *Nature, Environ. and Pollu. Tech.*, **5** (1) : 143-147
19. Jadhav A.R. and **A.M. Deshmukh** 2006. Physicochemical and Microbial characteristics of Rankala and Kalamba lakes of Kolhapur district of Maharashtra. *Environ. And Eco.***24** (1): 21-27.
20. Chougule V.V., A.R.Jadhav, and **A.M.Deshmukh** 2007. Antagonistic activities of actinomycetes from saline soils of Sangali District. *Nature Environ. and Pollu. Tech.*, **6** (1) : 105-108
21. Chougule V.V. and **A.M.Deshmukh** 2007. Biodegradation of carbofuran pesticide by saline soil actinomycetes. *Asian Jour. of Microbio.Biotech.and Env.Sc.* **9**(4):1057-1061
22. Chougule V.V. and **A.M.Deshmukh** 2007. Biodiversity of actinomycetes in deep and partial saline soils of Sangali District, Maharashtra, India. *Eco.Env.and Cons.*,**13**(4):887-890
23. Sapkal M.L. and **A.M.Deshmukh** 2008. Biosynthesis of gold Nanoparticles by *Streptomyces* species . *Res. Jour. of Biotech.*, **3** (2):36-39(**Impact factor .335**)
24. Mane U.V. and **A.M.Deshmukh** 2008 .Chitinase degrading potential of aquatic actinomycetes”*Jour African Biotech.* **8**(23):6617-6620 (**Impact factor 0.456**)
25. Mane U.V. and **A.M.Deshmukh** 2008 .Physicochemical and Microbial characteristics of Krishna river water in Satara District” *Nature, Environ and Pollu. Tech.*, **7**(2); 224-227
26. Mane U.V., P.N.Gurav, **A.M.Deshmukh** and S.P. Govindwar. 2008 Degradation of textile dye reactive Navy blue Rx (Reactive blue-59) by an isolated actinomycetes *Streptomyces krainskii* SUK-5. *Malyasian Journal of Microbiology* **4**(2): 1-5.
27. Salunke A.K. and **A.M.Deshmukh** 2009 Studies on biomethanation potential of liquid composite waste from corn glucose factory. *Nature, Environ and Pollu. Tech.*, **8** (3) : 489-495.
28. Shingade B.M., Waghmare S.S and **A.M.Deshmukh** .2008 Ethanol production from sugar cane juice. *Jour .Curr. Sci.* **12** (1).
- 29 Jadhav U.N., P.R.Thorat and **A.M.Deshmukh**. 2008 Decolourization of textile Dye, Rem-Red by *Micromonospora* species. *Nature, Environ and Pollu. Tech.*, **7** (1) : 129-132 .

30. Kambale R.D and A.M.Deshmukh 2008. Antimicrobial activity of *Ocimum sanctum* against common human pathogens. *Asian Journal of Microbio. Biotech. Env. Sc.* **10** (4): 873-877.
31. Jadhav U.N. and A.M.Deshmukh. 2009. Decolourization of, Rem-red and Rem blue textile dyes by *Micromonospora carbonacea*. *Bionanofrontier*. **2** (2) : 18-20
32. Chougule V.V. and A.M.Deshmukh 2009. Degradation of copper sulphate by actinomycetes. *Bioinfolet* **6**(2):131-132
33. Mahajani Sarita and A.M.Deshmukh 2009 Utilization of SDS-PAGE of whole cell protein for characterization of pathogenic *Escherichia coli*. *Jour. Biotech. Bioinfor.* **1**(1):175-179.
34. Mahajani Sarita and A. M. Deshmukh 2009 Study of virulence associated factors in uropathogenic and enteropathogenic *E. coli*. *Int. J. of Biotech Research* **2** (1):73-78
35. Sapkal M.R., Sapkal R.T. and Deshmukh A.M. 2008 Intracellular Biosynthesis of Silver Nanoparticles using *Streptomyces* species *Research Jour. of Biotech.,* **4** (3):56-58 (**Impact factor .335**)
- 36 Mahajani Sarita and A. M. Deshmukh 2009 Antibiotic resistance pattern in selected serogroups of *E. coli* isolated from urinary tract infection. *Bionano Frontiers.,* Special issue .: 12 – 14.
37. Salunke A.K. and A.M.Deshmukh 2009 Pollution abatement studies of glucose factory wastewater through acclimatized bacterial seed culture *Bioscan*(In press).
38. Salunke A.K. and A.M.Deshmukh 2009 Biomethanation as an effluent treatment process of liquid glucose plant waste. *Biomass and Bioenergy* (Communicated)
39. Salunke A.K. and A.M.Deshmukh 2009 Studies on bacterial seed culture preparation for aerobic treatment of effluent from biomethanation process of corn glucose factory wastewater *Microbiological research* Communicated
40. Jadhav U.N. and A.M.Deshmukh. 2009. A comparative study on biodegradation of benzenehexachloride (BHC) by nonstreptomyces actinomycetes. *Asian Journal of Microbio. Biotech. Env. Sc.* **11** (2) : 395-400
41. Jadhav U.N. and A.M. Desh,ukh 2010. Generic distribution of Actinomycetes from Vasant Sagar dam in Sangali District. *Int. Jour. Mod. Biotech.* **1** (1) : 154-58.
42. Mahajani Sarita and A. M. Deshmukh 2010 Occurrence of ESBL and Multiple drug resistance in UTI caused by *E.coli* *Jour. Pure & Appl. Microbio.* **4**(1) 257-261.
43. Waghmare S.S., S.W. Kulkarni and A.M.Deshmukh 2011 Biosynthesis and characterization of manganese and zinc nanoparticles. *Universal journal of environmental research and technology*, **1**:64-69
44. Gulve R.M. and A.M.Deshmukh 2011 Enzymatic activities of Actinomycetes isolated from marine sediments. *Rec. Res. Sci, Tech.* **3**:80-83 45.
45. Gulve R.M. and A.M.Deshmukh 2011 Isolation and Identification of antibiotic producing *Streptomyces* from Marine Sediments *Jour. Micro. World* **13** (1) :90-98
46. Gulve R.M. and A.M.Deshmukh 2011 Antimicrobial activity of marine actinomycetes *Jour. Biotech. Bioinfor.* **3**(1) (In press)
47. Gulve R.M. and A.M.Deshmukh 2011 Optimization of Antibiotic production by marine *Streptomyces arnae* *Inter. Jour. of Biotech. Biosci.* (Accepted)
48. Baratakke K.V. and A.M.Deshmukh 2010 Isolation and screening of thermophilic soil actinomycetes for alpha amylase production in solid state fermentation. *Jour. Microbio. World* **13**(1)
49. Baratakke K.V. and A.M.Deshmukh 2010 Extraction and characterization of alpha amylase produced in solid state fermentation by *Nocardiopsis alba* *Reserch link* (Accepted)
50. R M Khobragade & A M Deshmukh 2011 Degradation of reactive Blue HERD by thermophilic *Streptomyces* species *Inter. Jour. Biotech. Biosci.* (In press)
51. Waghmare, S.S., Deshmukh, A.M., Kulkarni S.W. and Oswaldo, L.A. 2011. "Biosynthesis and Characterization of Manganese and Zinc Nanoparticles", *Univ. J. Environ. Res. and Technol.* **1**, 64-69.
52. Waghmare, S.S., Deshmukh, A.M., Kulkarni S.W. Production and purification of melanin from *Streptomyces* isolated from Balaghat ranges of Maharashtra (accepted) *Bioscan* **4**(4), 2010.
53. Khobragade R.M. and A.M.Deshmukh 2011 'Degradation of reactive blue HERD by thermophilic *Streptomyces* species.' *Inter Jour of Biotech and Biosci* (In press)
54. Jadhav A. R. and Deshmukh A. M. 2003. Antimicrobial activity of aquatic actinomycetes. Published in proceeding of international conference of SAARC countries on Biotechnology in Agriculture, Industry and Environment published by Microbiologists Society, Karad, India. Pp. 435-442.

In the proceedings/books:

1. Kulkarni S.W. and **A.M. Deshmukh**. 1998. Phosphate solubilizing soil actinomycetes as biofertilizers: In: Biofertilizer and Biopesticides (Ed. A.M. Deshmukh.) :197-199.
2. Khambe S. D., **A.M. Deshmukh** and M. V. Kulkarni 1998. Vermicompositing of kitchen waste, a case study: in “ Biofertilizer and Biopesticides ” (Ed. A.M. Deshmukh.) :200-203.
3. Kulkarni S.W. and **A.M. Deshmukh** 2001 “ Use of Actinomycetes for abatement of arsenic form arsenic polluted water” In: Ecology of polluted water (Ed Arvind Kumar) **2**: 715-721.
4. Kulkarni S.W. and **A.M. Deshmukh** 2001”Studies on arsenic resistance of soil actinomycetes”. In proceeding of International conference on Environment and Agriculture: Biodiversity, Agriculture and Pollution in South Asia. Eds: P.K. Jha et al. Published by Ecological Society (ECOS) Kathmandu, Nepal. (): 555-557.
4. Kulkarni S.W. and **A.M. Deshmukh** 2004. “Environmental influences on actinomycetes population in Solapur district of Maharashtra. In: Biotechnology applications in environment and agriculture (Eds. P.K. Goel and G.R. Pathade) :118- 144
5. Pathade G. R. **Deshmukh A.M.** and Shinde D.D. 2003 Physicochemical and Microbiological aspects of Rhizospheric soils of Grape (*Vitis vinefera*) from Karad and Walwa Taluka (Maharashtra). In proceeding of international conferences of SAAR Countries on “Biotechnology in agriculture industry and environment” held at Karad.:170-173.
6. **Deshmukh A. M.** Pathade G.R. and Velhal R.H. 2003 Surface Microflora of Cockroaches (*Periplanta americana*) and houseflies (*Musca nebulo*) with special references to enteropathogens. In the proceeding of international conferences of SAAR Countries on “Biotechnology in agriculture industry and environment” held at Karad. : 374-377.
7. **Deshmukh. A.M.** Pathade G.R. and Sathe S.P. 2003 Microbial seed culture preparation for the treatment of municipal sewage from Karad city (Maharashtra). In the proceeding of international conference of SAAR countries on “Biotechnology in agriculture industry and environment” held at Karad: 378-382.
8. **Deshmukh A.M.** Pathade G.R. and Kinkar S.S. 2003 Citric acid production by *Aspergillus niger* isolated from soils of Karad (Maharashtra). In the proceeding of international conference of SAAR countries on “Biotechnology in agriculture industry and environment” held at Karad. : 279-283.
9. **Deshmukh A.M.** Pathade G.R. Patki A. S. 2003 Studies on the Microbiological Aspects of Dental Caries in Karad (Maharashtra) in proceeding of international conferences of SAAR countries on “Biotechnology in agriculture industry and environment” held at Karad. : 389-393.
10. **Deshmukh A.M** Pathade G.R. and Kanse S.V. 2003 Isolation and characterization of *Escherichia coli* phages from sewage at Karad (Maharashtra). In the proceeding of international conferences of SAAR countries on “Biotechnology in agriculture industry and environment” held at Karad. : 394 -400.
11. **Deshmukh A.M.** Pathade G.R. and Surav S. V. 2003 Treatment of waste from Koyana Dairy with reference to microbial seed culture preparation. In the proceeding of international conferences of SAAR countries on “Biotechnology in agriculture industry and environment” held at Karad. : 407-411.
12. **Deshmukh A.M.** Pathade G.R. and Rasal richa 2003 Isolation of actinomycetes from Municipal sewage of oxidation ponds from Karad taluka (Maharashtra) In the proceeding of international conferences of SAAR countries on “Biotechnology in agriculture industry and environment” held at Karad. : 412-417.
13. **Deshmukh A.M.**, Pathade G.R and Kumbhar S.S..2003 Studies on microbial lipase phospholipase and proteolytic enzymes of soil isolates from Karad (Maharashtra). In the proceeding of international conference of SAAR countries on “Biotechnology in agriculture industry and environment” held at Karad. : 284-287.
14. **Deshmukh A.M.**, Pathade G.R and Kumbhar S.S. 2003 Physicochemical and microbiological characteristics of fertile and virgin soils of Karad region with special references to *Azotobacter* and *Azospirillum* species. In the proceeding of international conferences of SAAR countries on “Biotechnology in agriculture industry and environment” held at Karad. :174-177.
15. **Deshmukh A.M.** Pathade G.R and Kokil S.U. 2003 Studies on the physicochemical and microbiological aspects of saline soils of Karad taluka. In the proceeding of international conference of SAAR countries on “Biotechnology in agriculture industry and environment” held at Karad. : 178- 181.
16. Kulkarni S.W. and **Deshmukh A.M.** 2003 Relative population of actinomycetes and their possible use as biofertilizers in saline soil. In the Proceeding of international conferences of SAARC countries on “Biotechnology in agriculture industry and environment” held at Karad. : 189-192.

17. **Deshmukh A.M.** Pathade G.R. and Pathade V.V. 2003 Studies on the aerobic amylase producing microorganisms from soils of Karad (Maharashtra) and characterization of Amylase. In the proceeding of international conferences of SAAR countries on "Biotechnology in agriculture industry and Environment" held at Karad.: 274-278.
- 18 **Deshmukh A.M.** Pathade G.R. and Velhal G.S. 2003 Microbiological studies on the mastitis in the milking animals in Karad (Maharashtra). In the proceeding of international conferences of SAAR countries on "Biotechnology in agriculture industry and environment" held at Karad .: 383-388.
19. **Deshmukh A.M.** Pathade G.R. and Kasabe S.M. 2003 Microbiological studies on the treatment of tannery waste with reference to seed culture preparation. In the proceeding of international conferences of SAAR countries on "biotechnology in agriculture industry and environment" held at karad. : 401-406.
20. Jadhav A.R. and **Deshmukh A.M.** 2003 Antimicrobial activity of aquatic actinomycetes .In proceeding of international conferences of SAAR countries on "Biotechnology in agriculture industry and environment" held at Karad. : 435 –442.
21. Kambale R.D. and **A.M.Deshmukh** 2008. Production of Streptokinase in batch culture. In *Biotechnology, Emerging Trends* (Ed.Riyaz Sayyed) 259-266.

Review articles:

1. **A.M. Deshmukh** 1998, Biofertilizers: an overview. *Ecol. and cons.* **4** (1-2): 73-78.
2. Pathade G.R. and **A.M. Deshmukh** 1998, Advances in health care biotechnology: In selected topics in biotechnology. (Ed. A.M. Deshmukh.) 126-138.
3. Kulkarni S. W. and **A.M. Deshmukh** 2001 Role of actinomycetes in agriculture and urban waste biodegradation" In Environmental pollution and management of waste water by microbial technique (Eds. G.R. Pathade and P.K. Goel.): 326-333.
4. **Deshmukh A.M.** 2001 In Biological control of paste and plant pathogens In current topics in environment sciences. (Eds. G Tripathi and G.C. Pandey) 296-309.
5. Kulkarni S.W. and **A.M. Deshmukh.** 2001. "Ecology of actinomycetes" in current topics in environment sciences (Eds. G Tripathi and G.C. Pandey) 482-494.
6. Kulkarni S.W. and **A.M. Deshmukh.** 2002. "Living creature as pesticides" In biological control of pest (Ed. A.M. Deshmukh.) 34 -38.
7. **Deshmukh A.M.,** G.R. Pathade and P.K. Goel, 2003, "Solid waste: hazards and control" In the proceeding of national seminar on impact of environment pollution on biosphere & its control, organized by D.B. Sciences college, Gondia. 1-11.
8. Kulkarni S.W. and **A.M. Deshmukh.** 2003 "Biodegradation of agriculture industrial waste by actinomycetes" In Emerging biotechnological methods in industrial waste management. (Ed. A.M. Deshmukh.) 141- 154.

Guided M. Sc. Dissertations:

- 1 .Studies on pigment producing microorganisms from natural ecosystem.
2. Isolation and characterization of salt tolerant *Azotobacter* from saline and normal soils
3. Bacteriological characters of drinking water from public place in Satara district Maharashtra
4. Microbiological studies on the treatment of tannery waste with reference to seed culture preparation
5. Microbiological studies on the mastitis in the milking animals in Karad (Maharashtra)
6. Studies on the physicochemical and microbiological aspects of saline soils of Karad taluka
7. Physicochemical and microbiological characteristics of fertile and virgin soils of Karad region with special references to *Azotobacter* and *Azospirillum* species
8. Surface microflora of cockroaches (*Periplanta americana*) and houseflies (*Musca nebulosa*) with special references to enteropathogens.
9. Microbial seed culture preparation for the treatment of municipal sewage from Karad city (Maharashtra)
10. Citric acid production by *Aspergillus niger* isolated from soils of Karad (Maharashtra)
11. Studies on the microbiological aspects of dental caries in Karad (Maharashtra)
12. Isolation and characterization of *Escherichia coli* phages from sewage Karad (Maharashtra)
13. Treatment of waste from Koyana dairy with reference to microbial seed culture preparation
14. Isolation of actinomycetes from municipal sewage of oxidation ponds from Karad taluka (Maharashtra)
15. Studies on microbial lipase, phospholipase and proteolytic enzymes of soil isolates from Karad (Maharashtra)
16. Studies on microflora from hospital environment.

17. Studies on Isolation and identification of pathogens from different fast foods.
18. Studies on the antibacterial activity of actinomycetes Isolated from Osmanabad Soil.
19. Studies in microflora from hospital environment.
20. Studies on degradation of textile dye Red H7G by actinomycetes.
21. Studies on cellulose producing microorganism
22. Studies on the production of alkaline xylanase by actinomycetes.

Co guided M.Sc. Dissertations:

1. Microbiology studies on the raw milk from small dairies in Karad city with emphasis on bacterial enteropathogens.
2. Studies on aerobic amylase producing microorganisms from soils of Karad with emphasis on screening production and characterization of amylase.
3. Studies on the physicochemical and microbiological aspects of rhizospheric soils of grape (*Vitis vinifera*) from Karad and Walwa Taluka.
4. Microbiological studies on the treatment of municipal sewage from Karad city with references to seed culture preparation.
5. Studies on the physicochemical and microbiological aspects of saline soils of Karad Taluka.
6. Microbiological studies on the bore well and open well water from Karad.
7. Microbiological studies on the milk samples from Koyana dairy at Karad.
8. Studies on the *Escherichia coli* phages from sewage at Karad.
9. Studies on the microbiological aspects in the production of cane sugar.
10. Studies on the anti microbial potential of plant from Karad against locality isolated bacterial and fungal strains.

Supervised

1. Screening of antibacterial activity of Gandhak-druti by Monika Yadav
2. To evaluate the efficacy of shigrupatra swarasa on dushta –Verna. by Eknath P.Jadhav
3. To study the effect of palash-kshara on Dushta-verna-by Dhanashri Lilake

Socio extension activities:

Delivered lectures in Marathi

A.On All India Radio

1. On “Suksha Jiwanche Vishal Wishwa” in 1982
2. On “Microbiology and Blind Faith” in 1989
3. on “Biofertilizers and Biopesticides” in 2006
4. on “Biopesticides-Applications for disease control” in 2007
5. on “Environmental pollution ” in.2011

B.To create social awarness

1. on environment pollution and control at two Municipal corporation (Pachagani and Mahabaleshwar).
2. on “Rural Biotechnology” in NSS camp organized by Bapuji Salunke College, Karad. 1996 and 1997
3. on “Biotechnology” at Baba Naik College, Kokrud.
4. on “Biofertilizers” at Krishi Chikistalya , Saidapur for farmers.2005
5. on “Biofertilizers” at Terna Public Charitable Trust, Osmanabad
6. on “Biofertilizer” in NSS camp,Dr.B.A.M,U,sub center Osmanabad (2007)
7. On ‘Azolla and Vermicompost ‘on All India Radio.2007.
8. Two lectures on “Biofertilizers to improve soil fertility” on All India Radio, Osmanabad 2007
9. Two lectures on “Aapli Vasundhera”and “Protect our earth from pollution” on All India Radio,Osmanabad 2007

Published

Ten different articles on science topics in Marathi news papers.

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