Dnyanopasak Shikshan Mandal's College of Arts, Commerce & Science, Parbhani

Name :Dr. Manwar Anand Vishwanath

Designation : Professor **Name of Department** : Microbiology

Email Id :manwaranand13@gmail.com **Phone** : Mob. 9422178922; 7020074713



Date of Birth : 13. 04. 1970 (13th April Nineteen Hundred Seventy)

Qualification : M.Sc., Ph.D., (Post Doctoral Fellow, UGC).

Specialization : Agricultural Biotechnology, Biocontrol, Bacterial Siderophore

Teaching Experience : 30 years (at UG and PG level)

Research Information

Research Experience : 21 years Twenty one years)

Research Guide : Recognized Research guide since 2005 (SRTMU, Nanded)

No. of Ph.D. completed : 07 (Awarded)

No. of Ph. D. students working: 04 No. of M. Phil. Guided : 03 (Three)

No. of Papers in Journals : 51 (List enclosed)
No. of Papers in Books : 05 (List enclosed)
No. of Papers in Proceedings: 04 (List enclosed)

Sr. No.	Name of research scholar	Topic of Research Re	emark
1.	Mrs. Bhuktar, J. J.	Studies on Microbial Degradation of Selected Azo Dyes.	Degree Awarded on 11.02.2012
2.	Mr. Pokalwar, S. U	Studies on Cellulose Production by using Bacteria.	Degree Awarded 20.12.2011
3.	Mrs. Ardhapurkar, N. A.	Studies on plant growth promoting bacteria associated with soybean.	Degree Awarded on 04.02.2013
4.	Mr. Rakh, R. R.	Investigation on Biological Control of Major Groundnut (<i>Arachis hypogaea</i>) Diseases.	Degree Awarded on 09.09.2010
5.	Ms. Bodade, R. G.	Studies on Inhibition of Microbial Xanthine Oxidase by Broad Spectrum Flavones.	Degree Awarded on 22.11.2010
6.	Mr. Kshirsagar. S. V.	Studies on siderophore producing microbes for growth promotion of wheat (<i>Triticum aestivum</i>)	Degree Awarded on 28.12.2015
7.	Mr. Suryawanshi S. P	Extension of shelf Life of Fresh Fishes by Using Some Local Medicinal Plants & Their Nutritional Status	Degree Awarded on 04.12.2016

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Research Student Working for M. Phil:

Sr .No.	Name of Research Scholar	Topic of Research	Remark
1.	Mr. Rauth L. S.	Studies on isolation and screening of	Degree Awarded
		siderophore producing organisms from rhizospheric soil	(2008)
2.	Mr. Syed Sajeed Ali	Screening of siderophore producing	Degree Awarded
_		microorganisms form different habitats.	(2008)
3.	Mr. Ahir M. B.	Studies on Neisseria menengitidis isolated	Degree Awarded
		from patients and its response to bioactive	(2010)
		compounds.	

List of paper published in Journals/ Books/ Proceedings

- 1. **Manwar, A. V.,** Vaigankar, P. D., Bhonge, L. S. and Chincholkar, S. B. (2000) In vitro suppression of plant pathogens by siderophores of fluorescent *Pseudomonas*. Ind. J. Microbiol., 40(2), 109-112.
- 2. **Manwar, A. V.**, Chaudhari, B. L., Talegaonkar, S. K. and **Chincholkar, S. B.** (1999) *In vitro* suppression of phytopathogens by siderophores of fluorescent Pseudomonads. Proceedings of National Symposium on Perspectives in Biotechnology, (Reddy, S. M., Digambar Rao and Vidyavati Eds.), Scientific Publishers, Jodhpur, India. pp. 31-34.[ISBN 81-7233-255-6]
- 3. Khandelwal, S. R., Manwar, A. V., Chaudhari, B. L., Talegaonkar. S. K. and Chincholkar, S. B. (2000) Dynamism of siderophoregenic Bradyrhizobia in soybean yield improvement, In: Proceeding's of "International Conference on Microbial Biotechnology: Trade and Public Policy" (Eds. Vankateshwar Rao, L. and Malik, V. P) at Osmania University, Hyderabad. (Electronic version on http://www.microbiologyou.com).
- 4. **Manwar A. V.**, Khandelwal S. R., Chaudhari B. L., Kothari R. M. and Chincholkar, S. B. (2001) Generic technology for assured biocontrol of groundnut infections leading to its yield improvement, Chemical Weekly, Vol. XL VI (26): 157-158.
- 5. **Manwar A. V.,** Khandelwal, S. R., Chaudhari, B. L. and Chincholkar, S. B. (2001) Plant growth promoting rhizobacteria for biocontrol of plant diseases (Deshmukh, A. M. Ed.) In Biological control of pests, Deshmukh Publishers, Karad,pp. 57-68.
- 6. Khandelwal, S. R., **Manwar, A. V.,** Chaudhari, B. L., and Chincholkar, S. B. (2002) Dynamic activity of siderophoregenic *Bradyrhizobium japonicum* NCIM 2746 in growth enhancement and yield improvement of soybean; in Frontiers in Microbial Biotechnology and plant pathology, (Ed. C. Manoharachary, D. K. Purohit, S. Ram Reddy, M. A. Singara Charya and S. Girishan), Scientific Publishers, Jodhpur., pp. 215-220
- 7. **Manwar, A. V.**, Talegaonkar, S. K. and Chincholkar, S. B. (in press) Pseudomonads: A Biocontrol agent for future. In: Plant Biotechnology, (Ed. Sadanandam), Warangal.
- 8. **Manwar A. V.,** Khandelwal, S. R., Chaudhari, B. L., Meyer, J. M. and Chincholkar, S. B. (2004) Siderophore production by a marine *Pseudomonas aeruginosa* and its antagonistic action against phytopathogenic fungi., Applied Biochem. and Biotechnol., 118, 243 251.[**IF**=]
- 9. **Manwar A. V.,** Khandelwal, S. R., Chaudhari, B. L. and Chincholkar, S. B. (2001) "Secondary Metabolites of Fluorescent Pseudomonads for control of fungal phytopathogens" (Ed. Ganfavane, L.V. and Mukadam, D. S.), In: Commemoration volume of Dr. K.S. Deshpande, Aurangabad, pp. 48-62.
- 10. Khandelwal, S. R., **Manwar, A. V.,** Chaudhari, B. L. and Chincholkar, S. B. (2001) Siderophoregenic Bradyrhizobia boost yield of soybean, Chemical Weekly XLVI (50), 157-158.

- 11. **Manwar A. V.,** Khandelwal, S. R., Chaudhari, B. L. and Chincholkar, S. B. (2001) "Sideroplus": A generic bio-product for assured biocontrol and biofertigation leading to improved groundnut yield, Science Tech Entrepreneur, CEDMAP, Bhopal, 9(8), 36-37.
- 12. Khandelwal, S. R., **Manwar, A. V.,** Chaudhari, B. L. and Chincholkar, S. B. (2002) Siderophoregenic Bradyrhizobia boost yield of soybean, Applied Biochemistry and Biotechnology, Vol. 102 (1-3), 155-168.
- 13. Chincholkar, S. B. and **Manwar, A. V.** (2006) Influence of Siderophoregenic Microorganisms on the Nutritional Value Addition of Groundnut, In: Current Topics on Bioprocesses in Food Industry (Ed. Christain Larroche, Ashok Pandey and Claude- Gilles Dussap) ASIA TECH Publisher INC (API) New Delhi, 26-41. [ISBN: 81-87680-14-8]
- 14. Raut, L. A., Rakh, R. R., Wakte, P. S. and **Manwar, A. V.** (2008) Studies on screening and isolation of siderophore producing microorganisms from soybean rhizosphere. Journal of Microbial world, 10 (1), 96-101. **[ISSN 0972-1487]**
- 15. Ardharpurkar, N., **Manwar, A. V.** (2009) In vitro studies on Rhizospheric organisms promoting growth of soybean., Bionano frontier, Vol- 2 (1), 31-33. **[ISSN 0974-0678]**
- 16. Rakh, R. R., Dalvi, S., Raut, L. S. and **Manwar, A. V.** (2009) In vitro antagonistic effect of Rhizospheric bacteria against *Sclerotium rolfsii* sacc. BIOINFOLET 6(3):280-281.
- 17. Rakh,R. R., L.S. Raut, S.M. Dalvi, S.C. Aithal and **A.V. Manwar** (2009) Efficacy of Secondary Metabolites of Rhizospheric Isolate CA/RN Against *Sclerotium rolfsii*. Bionano Frontier Vol.2(2) Pp. 13-17. [ISSN 0974-0678]
- 18. Ali, S. S. and **Manwar A. V.** (2009) Studies on Siderophore production by Bacterial Isolates obtained from various soil Habitats., J. Microb. World 11(2), 150-154. **[ISSN 0972-1487]**
- 19. Kshirsagar, S. V., Aithal, S. C. and **Manwar, A. V.** (2010) Studies on Multifaceted *Vibrio* Sp. Isolated from Alkaline and Saline Lonar Lake, Bionano Frontier, Vol.3(2) pp. 182-188. [ISSN 0974-0678]
- 20. Khobragade, C. N., Ragini G, Bodade, Shankaraiah G. Konda, Bhaskar S. Dawane and **Manwar A V** (2010) Synthesis and antimicrobial activity of novel pyrazolo [3,4-d] pyrimidin derivatives, European Journal of Medicinal Chemistry, 45(4), 2635-2638.[**IF=2.898**]
- 21. Khobragade, C. N., Bodade Ragini and **Manwar**, A. V. (2010) Synthesis and Antioxidant activity of some flavones derivatives., Asian J. Research Chem. 3(1): Jan-Mar, 139-141. [ISSN 097-4169].
- 22. Bodade R.G., S. D. Beedkar., **A. V. Manwar** and C. N. Khobragade (2010) Homology modeling and Docking study of Xanthine oxidase of *Arthrobacter sp.* XL26., International Journal of Biological Macromolecules, 47:298-303. [**IF=2.2**].
- 23. S. U. Pokalwar, M. K. Mishra and A. V. Manwar (2010) Production of Cellulose by *Gluconacetobacter Sp.* Recent Research in Science and Technology, 2(7), 14-19. [ISSN: 2076-5061].
- 24. Bhuktar, J. J., U. Kalia and A. V. Manwar (2010) Decolorization of textile sulfonated azodyes by bacteria isolated from textile industry effluents, soil and sewage, Journal of pure and Applied Microbiology, Vol 4(2), 617-622. [ISSN: 0973-7510]
- 25. Ardhapurkar, N. A. and A. V. Manwar (2011) Study on direct mechanism of growth promotion of soybean, Asian Journal of Bio Sciences, Vol. 6(2), 191-193.[ISSN: 0973-4899]
- 26. S. U. Pokalwar, M. K. Mishra and A. V. Manwar (2011) Production and optimization of Bacterial cellulose by *Gluconacetobacter intermedius* isolated from Indian Grapes, Bionano Frontier, Vol.4 (1), 23-27.[ISSN 0974-0678]
- 27. Aithal, S. C., A. A. Sawalikar and **A. V. Manwar** (2011) Production of fungal amyloglucosidase by solid state fermentation using Agriculture Biomass, Bionano Frontier, Vol. 4(1), 31-35. [ISSN 0974-0678].

- 28. Rakh, R. R., L. S. Raut, S. M. Dalvi,.. and **Manwar, A. V** (2011) Biological control of *Sclerotium rolfsii* causing stem rot of Groundnut by *Pseudomonas cf. monteilii* 9, Recent Research in Science and Technology, 3(3), 26-34. [ISSN: 2076-5061].
- 29. Bhuktar, J. J. and A. V. Manwar (2011) Comparative study on decolorization of DNB by pure culture (IE1 and C1) and their consortium, Bionano Frontier, Vol. 4(2), 228-233. [ISSN 0974-0678].
- 30. Kshirsagar, S. V. and **Manwar A. V.** (2011) Screening of siderophore producing Bacteria from lonar lake, J. Microbial World, 13(2), 184-191 **[ISSN 0972-1487].**
- 31. Pokalwar S. U., Krishna Kataavarapu, Krishnanand Tiwari, Sunil N. Shebannavar, Maheshwari K. Mishra and **Manwar**, **A. V.** (2011) Preparation and evaluation of bacterial cellulose membrane as an alternative adherent surface material from mammalian cell culture, International Journal of Current Research, 3(8): 58-61. [0975-833X].
- 32. Ardhapurkar N. A., and **Manwar A. V.** (2011) In vitro study of indirect mechanism of plant growth promotion, Indo American Journal of Pharmaceutical Research, 201(3): 174-180. [2231-6876].
- 33. Ardhapurkar, N. A. and **Manwar A. V.** (2011) Study on phosphare solubilization by plant growth promoting bacteria, Thematic journal of Environmental Science, 10-11. **[ISSN-2230-8474].**
- 34. **Bhuktar, J. J. and Manwar A. V.** (2011) Studies on Microbial decolorization and degradation of DB71 and RBS Dye by bacterial isolate IE1, International Journal of Biotechnology and Biosciences, Vol. (1), Oct-Dec., 2011, 437-443.[ISSN-2231-0304].
- 35. Kshirsagar, S. V., **Manwar, A. V.** and Awasthi, R.S. (2013) Screening of biosrufactant producing bacteria from lonar soda lake of India., Bionano Frontier Vol.6(2). [ISSN 0974-0678].
- 36. Kshirsagar, S.V. and **Manwar A. V.** (2012) Microbe- Plant interactions involved in sustainable agriculture. In proceedings of National conference on Recent Trends and Future Prospects in Life Sciences, held at Mahatma Gandhi Mahavidyalaya, Ahmedpur., pp. 92-98. [ISBN 978-81-924894-3-8].
- 37. Kshirsagar, S. V., **Manwar, A. V.** and Awasthi, R. S. (2014) Biosurfactants: Solution for Environmental Protection, in proceedings of UGC sponsored National Seminar on Role of Life Forms in Controlling Pollution, held at Dayanand Science College, Latur during August 8-9, 2014. Pp. 216-221 [ISBN 978-93-83389-79-7].
- 38. Sonawane, P.A. and **Manwar A.V.** (2016) Study of Probiotic Properties of Lactic Acid Bacteria Isolated from Crud Samples, International research journal, Vision Research Journal For Pure Sciences, Vol. I (VI), 19-28. **[ISSN 2348-7976].**
- 39. Sonawane, P.A. and **Manwar A.V.** (2016) Study of Probiotic Properties of Lactic Acid Bacteria Isolated from Crud Samples, International research journal, Vision Research Journal For Pure Sciences, Vol. I (VI), 19-28. [ISSN 2348-7976].
- 40. Aithal, S. C. and **Manwar, A. V.** (2016) Microbial Taxonomy and Diversity, In: Book entitled "Biodiversity: Conservation and Protection" Ed. Dr. Kadam S.S., Ingram Press International., pp. 28-39. **[ISBN: 2370000366450].**
- 41. Rakh, R.R., L. S. Raut and **Manwar A.V.** (2016) In vitro Antagonism of *Bacillius thuringiensis* NCIM 2130 against *Sclerotiumrolfsii* Sacc., A Stem Pathogen of Groundnut, International Journal of Advanced Biotechnology and Research (IJBR), Vol. 7, Issue 4, pp. 1600- 1607. [ISSN 2278-599X].
- 42. Bhuktar, J. J. and **Manwar A. V.** (2016) Decolorization of Reactive Black 5 by Pure cultrue of IE1 and C1 and Their mixture, Journal of Environmental Resaerch and Development (J. Environ. Res. Develop), Vol. 10(3), 423-435 [ISSN 0973-6921] (**IF 4.301**).
- 43. Kshirsagar, S. V. and Manwar, A. V. (2018) Biocontrol activity of PGPR species Isolated from Lonar Lake, International journal of Recent Trends in Science and Technology, Special issue ICRAFHN, 76-78. [ISSN 2277-2812].

- 44. Harkal, R. S. and **Manwar, A. V.** (2018) Effect of Thermal Processing on Shelf Stable Canned Salted Beef with Tomato Gravy, Asian Journal of Biosciences., Vol. 13(2), 54-61. [ISSN 0973- 4899].
- 45. Harkal, R. S. and **Manwar, A. V.** (2020) Effect of combined use of vermicompost and organic manure fortified with Rhizobacteria consortia on soil nutrition. VIIRJ, 11(1). [ISSN 2319-4979].
- 46. Harkal, R. S. and **Manwar, A. V.** (Accepted) Impact of vermicompost and organic manure fortified with Rhizobacteria fortification on nutrient quality of soil from Maharashtra, India. Romanian J. Biophys. 32(1)
- 47. **Phule DB and Manwar A.V. (2020)** Survellance of nosocomial infections in a private hospital with particular emphasis on characterization and drug resistace pattern., International J of current Microbiology and Applied sciences, Vol 9 (12). [ISSN 2319-7706].
- 48. **Phule DB and Manwar A.V. (2020)** Antibacterial activities of indian medicinal plants against Nosocomical multidrug- resistant bacteria, International journal of Botany studies., Vol 5 (6). [2455-541X].
- 49. **Phule DB and Manwar A.V. (2021)** A Review of Nosocomial Infections: source and prevention., Mikpobio., vol.83 (4). [1028-0987].
- 50. **Manwar A.V and Sonwane, P. A. (2019).,** Probiotic Properties of Lactic Acid Bacteria having Lipolytic acticity., JETIR, Vol. 6 (6). [2349-5162].
- 51. Manwar A.V and Sonwane, P. A. (2019)., Lipolytic activity of Lactic acid bacteria isolated from different dairy samples., Ind. Journal of Pure and Applied biosciences., Vol 7 (6). [2582-2845].

Book Published: (Added to B.Sc. II sem. Syllabus, SRTMU, Nanded)

1. Air Microbiology: An Environment and Health Perspective by Aithal, Wakte and **Manwar**, Cinnamon Teal Print and Publishing, Goa, 2010. [ISBN: 978-93-80151-30-4]

Projects/ Awards

Arards Received

- 1. Received Direct UGC Teachers Fellowship Award under Eighth plan for doing Ph.D (Three years).
- 2. Received Post Doctoral Fellowship from UGC wide Sanction Letter No. F. 31-87(SC) 2007(SA-III) dated 31 March 2009 For Five Years.
- 3. Received **First prize** at Symposium on Biotechnology of plant protection at CAS in Botany Department, Banaras Hindu University, Varanasi, Feb., 25-27, 2000 for poster presentation.
- 4. Selected as **Reader in Microbiology** at Sant Gadge Baba Amravati University, Amravati, wide Office order No. SGBAU/1/103/A-2489/2008, dt. 07.11.2008.

Projects:

Major Research Projects with title and funding Agency

Completed : 01

Major Research project as (Co- Investigator) entitled "Ecology Hydrochemistry and Microbiology of Meteorite Impact creator Lonar Lake (MS) India" sanctioned by UGC wide letter No. F. No. 34-457/2008 (SR) dated 29/12/2008 amounting Rs. 8,92,800/- only (Rupees Eight Lakh Ninety Two Thousand Eight Hundred only).

On going : Nil

Minor Research Projects with Title and Funding agency

Completed : (02)

:A Minor research project entitled "Optimization of Siderophore Producton by fluorescent Pseudomonads" has been sanctioned amounting Rs. 65,000/- by UGC in April, 2004 and is completed in 2006.

A Minor Research Project entitled "Biological control of some fungal diseases of Groundnut" Sanctioned by SRTMU, Nanded (Rs. 28,800/-only) wide letter No. BCUD/Min.Uni./Science/2009-10/3859 dated 27.03.2010.

On Going : NIL

Conference/ Seminar/ Symposium/ workshop

Conference conducted : Nil

Conference Attended : 50 (List Attached)

- 1. **Manwar, A. V.,** Bhonge, L. S., Vaigankar, P. D. and Chincholkar, S. B. 'Characterization of plant pathogen suppressing fluorescent Pseudomonads' poster presented at **International Conference** on Pest and pesticide Management for sustainable Agriculture, Kanpur, 11-13 Dec. 1998.
- 2. **Manwar, A. V.,** Chaudhari, B. L., Talegaonkar, S. K. and Chincholkar, S. B. '*In vitro* suppression of phytopathogen by siderophores of fluorescent Pseudomonads', (**Oral presentation**) at UGC sponsored National Symposium on Perspectives in Biotechnology, Warangal, Feb., 26-28, 1999.
- 3. Chaudhari, B. L., **Manwar, A. V.** Talegoankar, S. K. and Chincholkar, S. B. 'Siderophores of *Curvularia lunata* and its cross feeding studies'. **Poster presentation** at UGC sponsored National Symposium on Recent Trends in Biotechnology, Warangal, Feb., 26-28, 1999.
- 4. **Manwar, A. V.** and Chincholkar, S. B. 'Siderophore production by a marine Pseudomonads sp. and its antagonistic action against certain plant deleterious fungi', (**Oral presentation**), at UGC sponsored State level Symposium on Recent Trends in Biotechnology for Rural and Industrial Development, Latur, March, 20-21, 1999.
- 5. **Manwar, A. V.,** Khandelwal, S. R., Chaudhari, B. L., Talegaonkar, S. K. and Chincholkar, S. B. Application of siderophoregenic fluorescent Pseudomonads as biocontrol agent, (**Oral presentation**), at Symposium on Biotechnology of plant protection at CAS in Botany Department, Banaras Hindu University, Varanasi, Feb., 25-27, 2000.
- 6. Khandelwal, S. R., **Manwar, A. V.,** Chaudhari, B. L. Talegaonkar, S. K. and Chincholkar, S. B. Siderophore producing *Bradyrhizobium japonicum* and its role in yield improvement of soybean, Paper presented & received **First prize** at Symposium on Biotechnology of plant protection at CAS in Botany Department, Banaras Hindu University, Varanasi, Feb., 25-27, 2000.
- 7. Talegaonkar, S. K., **Manwar, A. V.,** Chaudhari, B. L., Khandelwal, S. R., Chincholkar, S. B. Application of soil conditioners from various waste for suppressing *Aspergillus flavus* infection in groundnut, **Paper presented** at Symposium on Biotechnology of plant protection at CAS in Botany Department, Banaras Hindu University, Varanasi, Feb., 25-27, 2000.
- 8. Chaudhari, B. L., Phirke, N. V., Talegaonkar, S. K., Khandelwal, S. R., **Manwar, A. V.**, Chincholkar, S. B. Microbial iron chelators of *Alcaligenes fecalis*, **Poster presented** at Symposium on Biotechnology of plant protection at CAS in Botany Department, Banaras Hindu University, Varanasi, Feb., 25-27, 2000.
- 9. **Manwar, A. V.,** Khandelwal, S. R., Chaudhari, B. L. and Chincholkar, S. B. Siderophore producing Pseudomonads for yield improvement of groundnut, **Paper presented** at National

- conference on Recent Trends in Biotechnology at Amravati University, Amravati, Feb., 3-5, 2000.
- 10. Khandelwal, S. R., Talegaonkar, S. K., **Manwar, A. V.** and Chincholkar, S. B. Partial Characterization of siderophores of *Bradyrhizobium japonicum* NCIM 2746, **paper presented** at National conference on Recent Trends in Biotechnology at Amravati University, Amravati, Feb., 3-5, 2000.
- 11. **Manwar, A. V.,** Khandelwal, S. R., Chaudhari, B. L. and Chincholkar, S. B. Yield improvement of groundnut by fluorescent Pseudomonads, **Paper presented** at International Conference on Microbial Biotechnology Trade and Public Policy, at Osmania University, Hyderabad, 15-17th July, 2000.
- 12. Khandelwal, S. R., **Manwar, A. V.,** Chaudhari, B. L., Talegoankar, S. K and Chincholkar, S. B. Dynamism of siderophoregenic Bradyrhizobia in soybean, **Paper presented** at International Conference on Microbial Biotechnology Trade and Public Policy, at Osmania University, Hyderabad, 15-17th July, 2000.
- 13. Sayeed Shaik, Aithal, S. C., Wakte, P. S. and **Manwar, A. V.** Biological Control of phytopathogens using *Trichoderma viride*, In: UGC sponsored National conference on Plant Biotechnology for Agriculture and Rural Development, Held at Department of Botany, Lal Bahadur Shastri Mahavidyalaya, Dharmadabad, 18-19 Feb., 2003.
- 14. Prashant, R., Aithal, S. C. and **Manwar, A. V.** Preparation of soil conditioner form vegetable wastes and its Bio-efficacy studies on wheat plant, In: UGC sponsored National conference on Plant Biotechnology for Agriculture and Rural Development, Held at Department of Botany, Lal Bahadur Shastri Mahavidyalaya, Dharmadabad, 18-19 Feb., 2003.
- 15. Md. Babar and **Manwar**, **A. V.** Hydrogeochemistry of pingalgad nala stream around Parbhani, Maharashtra, In: National Conference on Management of water Resources: Emerging challenges Trends and Solutions, Yeshwant Mahavidyalaya, Nanded, 21-22th Feb., 2003.
- 16. M. Anandbabu., Wakte, P. S., **Manwar, A. V.** Biocontrol of Citrus (Lemon) pathogens by *Tricoderma viride*, **Poster presented** In: UGC sponsored National Conference on Biotechnological Approaches in Conservation, Utilization and Improvement of plant wealth, Feb.. 14-15., 2004.
- 17. Kulkarni, A. G., Aithal, S. C., **Manwar, A. V.** and Wakte, P. S. Utilization of Hybrid sorghum grains for amylase production by solid state fermentation, In: UGC sponsored National Conference on Biotechnological Approaches in Conservation, Utilization and Improvement of plant wealth, Feb., 14-15., 2004.
- 18. Pathak, A. S., Aithal, S. C., **Manwar, A. V.** and Wakte, P. S. Fungal Amyloglucosidase production by solid state fermentation using hybrid sorghum flour, In: UGC sponsored National Conference on Biotechnological Approaches in Conservation, Utilization and Improvement of plant wealth, Feb., 14-15., 2004.
- 19. Bhosale, S. L., Aithal, S. C., **Manwar, A. V.** and Wakte, P. S. Antmicrobial activities of some aromatic plants, In: UGC sponsored National Conference on Biotechnological Approaches in Conservation, Utilization and Improvement of plant wealth, Feb., 14-15., 2004.
- 20. Khandelwal, S. R., **Manwar, A. V.,** Chaudhari, B. L. and Chincholkar, S. B. Siderophoregenic bradyrhizobia in yield improvement of soybean, In: National Symposium on Developments in Biotechnology: Emerging Trends and Challenges and First BRSI Convention at North Maharashtra University, Jalgaon., Nov., 25-27, 2004.
- 21. **Manwar, A. V.,** Aithal, S. C., Wakte, P. S. and Chincholkar, S. B. Studies on development of siderophore based formulation for promotion and nutritional value addition of groundnut, **Poster Presented** In: National Symposium on Crop Disease Management in Dryland Agriculture at Department of Plant Pathology, Marathwada Agricultural University, Parbhani, Jan., 12-14, 2005.

- 22. Joshi, R. K., **Manwar, A. V.** and Kareppa, B. M. In vitro studies on influence of antibiotics on wilt causing *Pseudomonas solanacearum* in groundnut, (**oral presentation**) In: National Symposium on Crop Disease Management in Dryland Agriculture at Department of Plant Pathology, Marathwada Agricultural University, Parbhani, Jan., 12-14, 2005.
- 23. **Manwar, A. V.** and Chincholkar, S. B. Influence Of Physico-Chemical Parameters On Growth And Siderophore Production By Pseudomonas, **Poster presented** In: 46th AMI Annual conference on Micro-Biotech- 2005 held at Department of Microbiology, Osmania University, Hyderabad during 8-10th Dec., 2005.
- 24. Muta, L. J. and **Manwar, A. V.** Studies on siderophore producing fluorescent Pseudomonas, **Poster Presented** In: 46th AMI Annual conference on Micro-Biotech- 2005 held at Department of Microbiology, Osmania University, Hyderabad during 8-10th Dec., 2005.
- 25. Sk. Humera, J. and **Manwar**, A. V. Studies on Microbial Decolorization of Dyes, **Poster Presented** In: 46th AMI Annual conference on Micro-Biotech- 2005 held at Department of Microbiology, Osmania University, Hyderabad during 8-10th Dec., 2005.
- 26. Sarkate, S. M., Tale, V. S., Aithal, S. C. and **Manwar, A. V.** Biological control of safflower wilt by using *Trichoderma viridei*, In: IPS West Zone Symposium on Current Trends in Innovative Approaches for Plant Disease Management held at Department of Plant Pathology, Marathwada Agriculture University, Parbhani, Jan., 6 7, 2006.
- 27. Solunke, A. V., Aithal, S. C. and **Manwar, A. V.** Production and pH optimisation of cellulase enzyme production form some garden fungi, In: IPS West Zone Symposium on Current Trends in Innovative Approaches for Plant Disease Management held at Department of Plant Pathology, Marathwada Agriculture University, Parbhani, Jan., 6 7, 2006.
- 28. Fund, D. N., Aithal, S. C. and **Manwar, A. V.** Effect of some pollen grain extracts against selected plant pathogenic fungi, In: IPS West Zone Symposium on Current Trends in Innovative Approaches for Plant Disease Management held at Department of Plant Pathology, Marathwada Agriculture University, Parbhani, Jan., 6 7, 2006.
- 29. Dandale, P. L., **Manwar, A.V.** and Aithal, S.C., Studies on azo dye decolorisation by Pseudomonas spp. A **Poster presented** in International conference on Exploring horizons in Biotechnology: A Global venture held at Sardar Patel University, Vallabh Vidyanagar Gujarat during November 2-4, 2006.
- 30. S. Sajeed Ali., G. Gnyananath., Wakte, P.S. and **Manwar, A.V**. Decolorisation of hazardous dyes by activated charcoal and chitin, A **Poster presented** in International conference on Exploring horizons in Biotechnology: A Global venture held at Sardar Patel University, Vallabh Vidyanagar Gujarat during November 2-4, 2006.
- 31. Manish Ahir, **Manwar A. V.**, L. Kamble and Md. Mussaddiq. *In vitro* activities of *Azadirachata indica* (Neem) extracts against the clinical isolates of *Neisseria meningitides*. A **poster presented** at National conference on Emerging Trends in Medicinal Plants and their Biotechnological Advances held at Department of Botany, Dr. Ambedkar College, Nagpur, 5th and 6th January 2007.
- 32. Raut, L. S., Rakh, R.R. and **Manwar, A. V.** Studies on Isolation and screening of siderophore producing organisms from rhizospheric soil. A **Poster presented** at National Conference on Emerging trends in biotechnology for modern era held ad Department of Biotechnology, College of computer science and Information technology, Latur during Sept., 29-30, 2007.
- 33. Ardharpurkar, N. A. and **Manwar, A. V.** Studies on plant growth promoting Rhizobacteria (PGPR) on soybean (*Oral presentation*) in CSIR, DST sponsored National Conference on New Horizons in Biotechnology held at Swami Vivekanand Mahavadilaya, Udgir, on Feb., 8-9, 2008.
- 34. Rakh, R. R., Raut, L. S. and **Manwar**, **A. V.** *In Vitro* antagonistic effect on Rhizospheric bacteria against *Sclerotium rolfsii*, (*Oral presentation*) in CSIR, DST sponsored National Conference on

- New Horizons in Biotechnology held at Swami Vivekanand Mahavadilaya, Udgir, on Feb., 8-9, 2008.
- 35. Joshi, R. K. and **Manwar, A. V.** *In vitro* studies on Biocontrol of *Rolstonia solanocearum* using plant extracts, A **poster presented** in CSIR, DST sponsored National Conference on New Horizons in Biotechnology held at Swami Vivekanand Mahavadilaya, Udgir, on Feb., 8-9, 2008.
- 36. Hegde, J. N., Aithal, S. C. and **Manwar, A. V.** Bactericidal activity of various honeys against some human pathogens., A **poster presented** in CSIR, DST sponsored National Conference on New Horizons in Biotechnology held at Swami Vivekanand Mahavadilaya, Udgir, on Feb., 8-9, 2008.
- 37. Ardharpurkar, N. A. and **Manwar, A. V.** *In vitro* studies on Rhizospheric organisms promoting growth of soybean, A **poster presented** in UGC sponsored National Conference on Plants: Biology to Biotechnology, held at Yeshwant Mahavidalaya Nanded, 23 24, Feb., 2008.
- 38. Ardhrapurkar, N. A. and **A. V. Manwar**. Screening, isolation and characterization of rhizospheric organism promoting growth of soybean, (**Oral presentation**), paper presented in UGC, DST, CSIR sponsored National conference on Changing role of plants sciences in Biotechnology and Bioprospecting, September, 20- 21, 2008.
- 39. Ardhrapurkar, N. A. and A. V. Manwar. Effect of co-inoculation of plant growth promoting organisms on growth of soybean paper presented (**Oral presentation**), in UGC, DST, CSIR sponsored National conference on Changing role of plants sciences in Biotechnology and Bioprospecting, September, 20-21, 2008.
- 40. Rakh, R. R., L. S. Raut, S..M. Dalvi., S. C. Aithal and **Manwar, A. V.** *In Vitro* Analysis of Biocontrolling Mechanism of Rhizospheric Isolate CA/RN Against *Sclerotium rolfsii sacc*, Paper presented (Poster presentation) in, DBT, DST, CSIR, ICMR, UGC, NABARD, MoES, MoFP, APSCHE, APCOST, DRDO, INSA, DOD Sponsored 3rd International Congress on Bioprocesses in Food Industries and 5th Convention of the Biotech Research Society India, Nov., 6-8, 2008 held at Department of Microbiology, Osmania University, Hyderabad.
- 41. Aithal, S. C., **Manwar, A. V.** and Wakte, P. S. Production of Thermostable alkaline protease from species of *Bacillus* on economically cheap substrates using solid state fermentation technique (**Oral presentation**), In UGC, DBT, DST, DRDO, SRTMU sponsored International Conference on Advances in Biosciences: From Darwin to Dolly and Beyond, Held at Yeshwand Mahavidyalaya, Nanded., during Feb., 12- 14, 2009.
- 42. Ardhapurkar, N. A. and **Manwar, A. V.** Effect of Rhizobacteria on growth of two different varieties of Soybean (**Oral presentation**), In UGC, DBT, DST, DRDO, SRTMU sponsored **International Conference** on Advances in Biosciences: From Darwin to Dolly and Beyond, Held at Yeshwand Mahavidyalaya, Nanded., during Feb., 12- 14, 2009.
- 43. Ardhapurkar, N. A. and **Manwar, A. V.** Screening of Soil Bacteria for Plant Growth Promoting Activities (**Oral presentation**), In UGC, DBT, DST, DRDO, SRTMU sponsored **International Conference** on Advances in Biosciences: From Darwin to Dolly and Beyond, Held at Yeshwand Mahavidyalaya, Nanded., during Feb., 12- 14, 2009.
- 44. Kshirsagar, S. V. and **Manwar A. V**. Isolation and screening of siderophore producing bacteria from Lonar Lake, In 50th Annual conference of Association of Microbiologists of India (AMI) held at National chemical Laboratory, Pune during December 15-18, 2009.
- 45. Pokalwar, S. U. and **Manwar A. V** Isolation and characterization of a cellulose producing *Gluconoacetobacter spp.* And studies on the static and submerged culture fermentation. In 50th Annual conference of Association of Microbiologists of India (AMI) held at National chemical Laboratory, Pune during December 15-18, 2009.
- 46. Rakh, R. R., L. S. Raut and **A. V. Manwar**., Siderophore producing *Pseudomonas cf monteilii* for assured biological control of *Sclerotium folfsii* causing stem rot of Groundnut (**Poster presented**) in 51st Annual Conference of Association of Microbiologists of India (AMI), International

- symposium on tecent advances in cross-disciplinary Microbiology: Avenues and Challenges, held at Birla Institute of Technology, Mesra, Ranchi, during December, 14-17, 2010.
- 47. Shiva C. Aithal, **A. V. Manwar**, N. S. Kulkarni and A. B. Solunke., Production of Boethanol by yeast using Blackened Hybrid sorghum biomass, (**Poster presented**) in 51st Annual Conference of Association of Microbiologists of India (AMI), International symposium on recent advances in cross-disciplinary Microbiology: Avenues and Challenges, held at Birla Institute of Technology, Mesra, Ranchi, during December, 14-17, 2010.
- 48. **Manwar A. V.** (**Attended**) UGC sponsored National conference on Innovations in Biosciences (IBS- 2011) in capacity of member organizing committee member, held at R. A. College, Washim, During 14-15 Oct., 2011.
- 49. Kshirsagar S.V. and A. V. Manwar., Siderophorogenic Microbial Diversity of Lonar Lake, (Poster presented), in UGC sponsored National conference on: "International Year of Biodiversity 2010: A Review on Indian Biodiversity and its conservation" held at Shri Shivaji College, Parbhani, During 16-17, December 2011.
- 50. Rakh, R. R., S. M. Dalvi., L. S. Raut., and A. V. Manwar, Biomanagement of Stem rot of Groundnut by *Pseudomonas aeruginosa* A198 (**Poster presented**), in UGC sponsored National conference on: "International Year of Biodiversity 2010: A Review on Indian Biodiversity and its conservation" held at Shri Shivaji College, Parbhani, During 16-17, December 2011.

No. of Paper presented : 50

List of Refresher Course/ Professional/ Training course attended:

- 1. Orientation course attended at Academic Staff College, Aurangabad during May 02, 1997 to May 30, 1997.
- 2. Refresher course attended at School of Life Sciences, North Maharashtra University, Jalgaon in Life Sciences on the theme "Life Sciences for Betterment of Human Life", during March 20, 2001 to April 16, 2001.
- 3. Refresher course attended at Department of Environmental Sceinces, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 03.08.2004 to 23.08.2004.
- 4. Short Term Faculty Development Programme on Multidimensional perspectives of Entrepreneurship Development at DSM college Parbhani during 01 July 2015 to 08 July 2015.
- 5. Short Term Course on Research Methodology for Science at HRDC Aurangabad during 02.11.2015 to 01.11.2015.

Workshop/ Training Programme attended:

- 1. Attended "A Popular Lecture Series in Biotechnology" Organised by Department of Food Biochemistry and Applied Nutrition, at College of Agricultural Technology, Marathwada Agricultural University, Parbhani, in collaboration with Department of Biotechnology, Ministry of Science and Technology, Govt. of India, New Delhi, Dec. 9-11, 1993.
- 2. Attended National Training Programme on Prevention of AIDS during 22-24 Sept. 1994, at District Tuberculosis Centre, Parbhani.
- 3. Attended MINI Workshop on Computer Application in Agriculture Organised by Dnyanopasak College of Arts, Commerce and Science, Parbhani, 26th Feb. 1994.
- 4. Attended National Conference on Biotechnology, held at Govt. Institute of Science, Aurangabad, February 1998.

- 5. Attended Seminar on Biological control and Plant Growth Promoting Rhizobacteria (PGPR) for sustainable Agriculture, at Department of Plant Sciences, University of Hyderabad, Hyderabad, April, 3-4, 2000.
- 6. Attended Faculty Development Programme at Maharashtra Center for Entrepreneurship Development (MCED), Aurangabad, Sponsored by National Science and Technology Entrepreneurship Development Board (NSTEDB), Govt. of India, New Delhi, 22.09.2003 to 03.10.2003.
- 7. Attended One Day Workshop on P.G. Syllabus of Microbiology, Organised by Post Graduate Department of Microbiology, NSB College, Nanded on 15.10.2003.
- 8. Attended and participated in regional level workshop on New Trends in Revised UGC Model Based Curriculum at UG level in Microbiology, Organized by Department of Microbiology, Dayanand Science College, Latur during October, 2 3rd, 2004.
- 9. Attended and participated in the capacity of Rappoteur in One day Workshop on M.Sc. Microbiology (III and IV Semester) Organized by School of Life Sciences, SRTMU, Nanded on 16.01.2005.
- 10. Attended and participated in one day Interaction Program to establish and launch the platform for Biosciences Educational Institutions In the Marathwada Region (PBEM), at Barwale Foundation Knowlwdge and Study Centre on Oct., 7th 2009.
- 11. Attended and Participated in International Workshop on rRNA Sequencing, Phylogeny and Next Generation Genome Sequencing during 15-16 Dec., 2010 held at BIT, Ranchi.
- 12. Attended One day National Seminar on Ambedkarism: Principle and practices at Swami Ramanand Teerth Marathwada University, Nanded on 3rd May, 2010.
- 13. Attended Examination oriented workshop (**As Resource Person**), B. Sc. First Year students in the subject of Microbiology, organized by B. Raghunath College, Parbhani on 12.03.2012.
- 14. Attended One Day Workshop on "Listening Skills" organized by Department of Microbiology, Students Association in Microbiology (SAM) and Microbiologists Society, India (MSI) at Dnyanopasak College, Parbhani on 25th Aug., 2015.
- 15. Attended One Day State Level Workshop on 'National Institutional Ranking Framework (NIRF) at Shri Shivaji College, Parbhani on 14th Jan., 2016.
- 16. Attended Two day National Level Seminar on Dr. Babasaheb Ambedkar's Contribution for Empowerment of Deprived Classes, at B Raghunath Arts, Commerce & Science College, Parbhani, Sponsored by Indian council of Historical Research And SRTMU Nanded. On October 02-03, 2016.
- 17. Attended and participated in District Level Research Festival (Avishkar 2016) As member of Organizing committee, held at Dnyanopasak College, Parbhani in association of Swami Ramanand Teerth Marathwada University, Nanded on 02.12.2016.

Memberships of Professional Bodies (List):

- 1. Member of board of studies (Microbiology) of Swami Ramanand Teerth Marathwada University, Nanded since 2001 (SRTMU/Acad/BOS/2000-2001/309-313).
- 2. Chairman, for B.Sc. and M.Sc. Examination work, Swami Ramanand Teerth Marathwada University, Nanded.
- 3. Member of Examination Panel for practical Examination at PG level, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- 4. Member of Examination Panel for practical Examination at UG and PG level, North Maharashtra University, Jalgaon.
- 5. Member of Examination Panel for practical Examination at UG and PG level, Swami Ramanand Teerth Marathwada University, Nanded.

- 6. Member for syllabus setting committee at B. Sc. III year, North Maharashtra University, Jalgaon.
- 7. Member for syllabus setting Sub-committee at M. Sc. I and II year, North Maharashtra University, Jalgaon.
- 8. Member of paper setting committee at UG and PG level, Swami Ramanand Teerth Marathwada, University, Nanded.
- 9. Member of subject expert panel in the subject of Microbiology, SRTMU, Nanded.
- 10. Member, Teachers Association, Swami Ramanand Teerth Marathwada University/College Teachers Organization, Nanded.
- 11. Executive member Maharashtra under Privileged Teachers Association (MUPTA), Parbhani Unit.
- 12. Life member of Association of Microbiologists of India (AMI) New Delhi, since 2001.
- 13. Life Member of Biotech Research Society of India (BRSI) Trivendrum, since 2004.
- 14. Life Member Alumni Association of students, North Maharashtra University, Jalgaon
- 15. Life Member Indian Science Congress, Kolkatta, Since 2011.
- 16. Life Member MSI (Microbiologist society of India), Karad India.