

Curriculum Vitae

DR. RAVINDRA RAOSAHEB RAKH

*Assistant Professor and Research Guide
Department of Microbiology,
Shri Guru Buddhiswami Mahavidyalaya, Purna (Jn.) -431511
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Date of Birth : 1st June 1978

Date of appointment : 16 June 2011

Marital status : Married

Cast : Vanjari (NT D)

Sex : Male

Nationality : Indian (by birth)

Domicile : Maharashtra state (by birth)

Academic Record :

Name of Degree/Certificate	University/Board	Year of Passing	Percentage (%)	Class
S.S.C.	Aurangabad board	1994	57.85	II
H.S.C	Aurangabad board	1996	58.00	II
B.Sc.	Dr. B. A. M. U. A'bad	1999	67.35	I
M.Sc. (Micro)	Dr. B. A. M. U. A'bad	2001	59.10	II
M.Sc. (Bot)	S. R. T. M. U. Nanded	2005	61.50	I
B. Ed.	S. R. T. M. U. Nanded	2002	53.66	II
Ph. D.*	S. R. T. M. U. Nanded	2010		
MS-CIT	M. K. C. L.	2003	58.00	II

***Ph. D.** -

Topic - **Investigation on Biological Control of Major Groundnut (*Arachis hypogaea* Linn.) Diseases**

Guide - **Dr. A. V. Manwar**

University - **Swami Ramanand Teerth Marathwada Uni. Nanded**

Date of award - **9th September 2010**

Present Employment Details:

- a. Designation : Assistant Professor
 b. Department : Microbiology
 c. Date of Joining : 16 June 2005

Teaching Experience:

Courses thought	Name of the college	Duration	Experience	Total Experience
U.G. Level	Shri Guru Buddhiswami College Purna (Jn)	16 June 2005 to 16 June 2009 (Contract Basis)	04	15
U.G. Level	Shri Guru Buddhiswami College Purna (Jn)	16 June 2011 to till date (Full Time)	11	

Orientation / Refresher / Short Term Courses:

Sr. No.	Name of the Course / Summer School	Place	Duration	Sponsoring Agency
1	Orientation Course	UGC Academic Staff College Kumaun University, Nainital (U.K.)	03/05/2012 to 30/05/2012	UGC-Sponsored
2	Summer School Course	UGC Academic Staff College University of Patiala, Patiala	12/05/2014 to 31/05/2014	UGC-Sponsored
3	Refresher Course	UGC HRDC, Maulana Azad National Urdu University, Hyderabad	30/11/2017 to 20/12/2017	UGC - HRDC Sponsored
3	"6 th Science Conclave 2013"	IIT at Allahabad	08 to 14 December 2013 (One Week)	MHRD - DST Sponsored
4	Short Term Workshop on "MOOCs, E-content Development and Open Educational Resources"	UGC, HRDC Doctor Harisingh Gour Vishwavidyalaya, (A Central University) Sagar (MP)	2 nd January to 8 th January 2020 (One Week)	UGC - HRDC Sponsored
5	Short Term Workshop on "Gender Sensitization"	UGC, HRDC Doctor Harisingh Gour Vishwavidyalaya, (A Central University) Sagar (MP)	2 nd March to 7 th March 2020 (One Week)	UGC - HRDC Sponsored
6	Faculty Development Programme	Teaching Learning Centre, Ramanujan College, University of Delhi	2 July 2020 To 17 July 2020	MHRD P MMMNMTT
7	Interdisciplinary Refresher Course/ Faculty Development Programme	Teaching Learning Centre, Ramanujan College, University of Delhi	30 January 2021 To 14 February 2021	Ministry of Education, P MMMNMTT

- Research Experience : 12 Years
 Research Area of Interest : Agriculture Biotechnology, Plant Pathology

Details about the Project / Schemes Completed or ongoing:

- Completed **Minor research project** as Co-Investigator entitled “**Conservation of indigenous medicinal plants of Marathwada region**” funded by UGC in October 2009 – October 2011(170,000/-).
- Completed **Minor Research Project** as Co - Investigator entitled “**Exploitation and Potential of Rhizobium japonicum for Soybean growth promotion**” funded by UGC in February 2012 - February 2014 (165,000/-).
- Completed **Major Research Project** as Principal Investigator entitled “**Biological Control of Stem rot disease of Groundnut Caused by Sclerotium rolfsii Sacc**” funded by UGC in March 2013 - 2017 (477,000/-).
- Completed RGSTC Project entitled “**Microbiological Management of Stem Rot disease of Groundnut caused by Sclerotium rolfsii Sacc by using Bacillus sp.** Sanctioned by Swami Ramanand Teerth Marathwada University, Nanded (2018 – 2020; 3,00,000 /-)
- P.G. Teacher & Microbiology Research Guide in Swami Ramanand Teerth University Nanded.

Research Articles/papers published:

1. Raut, L. S., **R. R. Rakh**, P. S. Wakte, and A. V. Manwar (2008) “Screening of Siderophore Producing Organisms from Rhizospheric Soil,” Journal of Microbial world 10 (1): 96-101.
2. Sanjay Dalvi, **R. R. Rakh**, and S. S. Bodke (2008) “Ethnomedicinal Studies of Some Rare Plants Used in Local Unani System of Nanded District,” J. Natcon, 20(2): 365-368.
3. Sanjay Dalvi, **R. R. Rakh** and S. S. Bodke (2008) “Morphotaxonomic and Ethno Medicinal studies of some rare plants of Mahur Hills of Nanded District,” J. Bot. Soc. Uni. Sagar, 43: 39-46.
4. **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* Sacc,” **Bionano Frontier**, Vol. 2 (2):13 -17.
5. **Rakh R.R.**, Sanjay Dalvi, L.S. Raut and A. V. Manwar (2009) “In Vitro Antagonistic Effect of Rhizospheric Bacteria against *Sclerotium rolfsii*” **Bioinfolet**. 6 (3): 280-281.
6. Sanjay Dalvi, **R. R. Rakh**, and S. S. Bodke (2009) “Antibacterial Activity of Some Selected Rare Folkore Medicinal Plants from Nanded District of Maharashtra,” **Bionano Frontier** (Science Day Special issue), pp. 22-25.
7. Sanjay Dalvi, **R. R. Rakh**, and S. S. Bodke (2009) “Ethnomedicinal Importance of Some Rare Plants of Mahur Hills in Nanded District of Maharashtra”. Biozone International Journal of Life Science. Vol. 1 (1): 10-15.
8. Sanjay Dalvi, **R. R. Rakh**, G. D. Kurundkar, R. S. Deshmukh, And Bodke, S. S.

- (2009) "Antibacterial and Ethno Medicinal Properties of Some Rare Plants from Nanded District Of Maharashtra," J. Natcon. 21(2):299-305.
9. Deshmukh R. S., **R. R. Rakh**, S. M. Dalvi, and S. S. Bodke (2010) "First record of *Oidium azadirachtae* on *Azadirachta indica* Juss in Maharashtra," **Journal of Mycology and Plant Pathology**, Vol. 40, No.1, 165.
 10. **Rakh R. R.**, S. M. Dalvi, G. D. Kurundkar, S. S. Bodke, R. S. Deshmukh, and A. V. Manwar (2010) "*In Vitro* Antagonism of *Pseudomonas cf. monteilii* 9 Towards *Sclerotium rolfsii*," BIOZONE, International Journal of Life Sciences. Vol. 2(1&2):308-318.
 11. Deshmukh R. S., **R. R. Rakh**, S. M. Dalvi and B. M. Kareppa (2010) "Studies on Alternaria Blight of Sunflower (*Helianthus annuus* L.)," BIOZONE, International Journal of Life Sciences. Vol. 2(1&2):232-235.
 12. Khole A. M., J. M. Gaikwad, and **R. R. Rakh** (2010) "Studies on some Thermophilic Algae at Unakeshwar," J. Natcon. 22(1):67-71.
 13. **Rakh R. R.**, L. S. Raut, S. M. Dalvi, and A. V. Manwar (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.
 14. Deshmukh R. S. and **R. R. Rakh** (2010) Alteration in Nucleic Acid Concentration induced by *Puccinia arachidis* Speg in groundnut", Bioscience Guardian, 1(1), pp.109-113.
 15. Deshmukh R. S., **Rakh R. R.**, Dalvi S. M. and Bodke S. S. (2011) "Effect of dose of *Trichoderma* and *Gliocladium* on incidence of stem rot of groundnut". **J Mycol Pl Pathol** 41(1):139-140.
 16. Deshmukh R. S., **R. R. Rakh**, S. M. Dalvi, A. M. Khole, G. H. Balde and S.S. Bodke (2011) "Genus *Lecanidion* from India" **Recent Research in Science and Technology**, 3(8): 34-36.
 17. **Ravindra R. Rakh** (2012) "Biocontrol of Plant Diseases for Human Welfare: Biocontrol of Stem Rot of Groundnut by *Pseudomonas cf. monteilii* 9." In National Seminar proceedings of "Science, Scientists & Society in 21st Century" (Kumbhar N., Deshmukh S., Dande K., Dongarge S. and Biradar U. (Eds.), Aruna Prakashan, Latur. pp: 92-100.
 18. Dalvi Sanjay and **Rakh R. R.** (2012) Ethno-Medico-Botany of *Helicteres isora* L. (Sterculiaceae) A Rare Plant Species in Marathwada Region of Maharashtra, India, Patron, Volume-III Issue - I-II Page No. 88-90.
 19. Deshmukh R. S. and **R. R. Rakh** (2013) Black Leaf Streak Disease (BLSD) of Banana in India, Multilogic in Science, An International Referred & Indexed

- Quarterly Journal, Vol. II, issue VI, pp: 2 - 3.
20. D. C. Kamthane and **R. R. Rakh** (2013) Studies on Percent Incidence and Severity Index of *Alternaria* blight of soybean of Parbhani district. *Asian Journal of Microbiology, Biotechnology & Environmental Sciences*. Vol. 15, No. (3): 615-619.
 21. D. C. Kamthane and **R. R. Rakh** (2013) Variations in the conidial dimensions of *Alternaria* species causing *Alternaria* blight diseases in various crops. *Asian Journal of Microbiology, Biotechnology & Environmental Sciences*. Vol. 15, No. (3): 559-562.
 22. **R. R. Rakh** and L. S. Raut (2013) Screening for Biocontrol Agent against *Sclerotium rolfsii*, Stem rot pathogen of Groundnut, In National conference proceedings of “Emerging Trends in Plant Sciences” organized by Department of Botany, B. Raghunath College, Parbhani. , Page No. 125 - 129.
 23. D. C. Kamthane and **R. R. Rakh** (2013) In Vitro Growth Promotion of Soybean (*Glycine max*) by *Rhizobium japonicum*, In National conference proceedings of “Recent Trends in Plant Sciences For Rural Development” organized by Department of Botany, Mahatma Basweshwar Mahavidyalaya, Latur. Page No. 193 - 196.
 24. **R. R. Rakh** and Raut L. S. (2014) Microbial Screening for Biocontrol of Stem Rot Disease, Caused by *Sclerotium rolfsii* Sacc, In National Conference proceedings of “Role of Life Forms in controlling Pollution” organized by Department of Botany, Dayanand Science College, Latur. Page No. 312 - 319.
 25. Deshmukh R. S., **Rakh R. R.**, Dalvi S. M. and S. S. Bodke (2014) Symptomatological Studies on leaf blight of Sunflower caused by *Alternaria helianthi* (Hansf.) Tubaki and Nishihara, In National Conference proceedings of “Advanced studies in Life Sciences And Medicinal Plant” organized by Department of Botany, Nagnath Art’s, Commerce and Science College, Aundha Nagnath, Dist. Hingoli. Page No. 19 - 20.
 26. **R. R. Rakh** (2015) In Vitro Antagonism of *Bacillus thuringiensis* NCIM2130 against *Sclerotium rolfsii* Sacc., a stem rot pathogen of Groundnut, In National Conference proceedings of “Life Sciences Major Challenges (Interdisciplinary)” organized by Department of Botany, B. Raghunath College. Page No. 1166 - 1170.
 27. S. B. Shete, and **R. R. Rakh** (2016) Hydrothermal synthesis of Titanium SBA - 16 Mesoporous Material using Ultrasonic Treatment and its Antibacterial Activities, *IOSR Journal of Applied Physics*, vol. 8, Issue 2 Ver. I, pp. 25 - 28.

28. **Ravindra Raosaheb Rakh** and Sanjay Marotrao Dalvi (2016) Antagonism of *Bacillus thuringiensis* NCIM2130 against *Sclerotium rolfsii* Sacc., A Stem Rot Pathogen of Groundnut. *International Journal of Current Microbiology and Applied Sciences*. Volume 5 Number 8 pp. 501-513.
29. **Ravindra. R. Rakh**, Laxman S. Raut and Anand V. Manwar (2016) *In Vitro* Antagonism of *Bacillus thuringiensis* NCIM2130 against *Sclerotium rolfsii* Sacc., A Stem Rot Pathogen of Groundnut. *International Journal of Advanced Biotechnology and Research (IJBR)*. Vol-7, Issue-4, pp 1600-1607.
30. Shaikh R.S., **Rakh R.R.** and Ravangave L.S. (2016). Sol - Gel Precipitation Synthesis of ZnO Nanoparticles, their Morphological Changes after Calcinations and Antibacterial Properties. *Int. Res. J. of Science & Engineering*. Vol. 4 (1): 31-35
31. **Rakh, R.R.**, S.M. Dalvi, B.B. Musle and Raut, L.S. (2017). Production, Extraction and Characterization of Red Pigment Produced by *Serratia rubidaea* JCM 1240T isolated from Soil. *International Journal of Current Microbiology and Applied Sciences*. 6(1): 143-154.
32. Sanjay Dalvi and **Rakh R. R.** (2017). Antibacterial Properties of Some Rare Ethno Medicinal Plant Species from Parbhani District of Maharashtra, India. *Bioscience Discovery*, 8(3): 608-612.
33. Dalvi S. M. and **Rakh R. R.** (2017). Siderophore Producing *Pseudomonas cf. monteilii* 9 for Assured Biological Control of *Sclerotium rolfsii* Causing Stem Rot of Groundnut. *Bioscience Discovery*, 8(3): 546-555.
34. **R. R. Rakh**, S. M. Dalvi and A. A. Atnoorkar (2017) *In Vitro* Antagonism of *Pseudomonas cf. monteilii* 9 Against *Fusarium oxysporum*, a Causative Agent of *Fusarium* Wilt Disease of Groundnut. *CURRENT GLOBAL REVIEWER-Special Issue. Topic 47* pg. 1 - 8.
35. **R. R. Rakh**, L. S. Raut and S. M. Dalvi (2019) Isolation and Screening of *Bacillus* spp, for Microbiological Control of *Sclerotium rolfsii* Sacc., A Stem Rot Pathogen of Groundnut. *Ajanta*, Vol. - VIII Issue - I pp. 49 - 56.
36. S. M. Dalvi, **R. R. Rakh** and V. N. Kadam (2019) Screening for Phosphate Solubilizing Bacteria (PSB) from Rhizospheric Soil. *Ajanta*, Vol. - VIII Issue - I pp. 130 - 136.
37. **R. R. Rakh**, L.S. Raut, A. A. Atnoorkar and S. M. Dalvi (2019) *In Vitro* Antagonism of *Pseudomonas cf. monteilii* 9 Against *Fusarium oxysporum*, A Causative Agent of *Fusarium* Wilt Disease of Groundnut. *Review of Research, Volume - 1 Issue - 1* pp. 37 - 47.

38. A. A. Atnoorkar, T. A. Kadam and **R. R. Rakh** (2019) Isolation and Characterization of Bacterial Species Associated with Fishes from Local Market of Degloor In Nanded District, Maharashtra, India. **Review of Research, Volume - 1 Issue - 1 pp. 75 - 80.**
39. **R. R. Rakh**, L. S. Raut and S. M. Dalvi (2019) *In Vitro* Dominance of *Bacillus amyloliquefaciens* RRR15 for Microbiological Control of *Sclerotium rolfsii* Sacc., A Stem Rot Pathogen of Groundnut. Think India Journal ISSN: 0971-1260 Vol-22, Special Issue-31. Pp. 351 - 365.
40. Sanjay M. Dalvi, V. N. Kadam and **R. R. Rakh** (2019) Investigation of Phosphate Solubilizing Bacteria (PSB) from Rhizospheric Niches of Healthy Plants. Think India Journal ISSN: 0971-1260 Vol-22, Special Issue-31. Pp. 557 - 574.
41. L. S. Raut, R. R. Rakh and V. S. Hamde (2020) In Vitro Microbiological Control of *Alternaria macrospora*, a Leaf Spot Pathogen of Bt Cotton with *Bacillus subtilis subsp. inaquosorum* RLS52. Research Journal of Agricultural Sciences. 11(2): 424 - 429.
42. Dalvi Sanjay M. and Rakh R.R. (2019) Utilization of phosphate solubilizing bacteria (PSB) for sustainable agriculture. Int. J. of Life Sciences, Volume 7 (4). Pp. 1 - 9.
43. R R Rakh, L S Raut and S M Dalvi (2020) *Bacillus spp.* for In-Vitro Microbiological Control of *Sclerotium rolfsii* Sacc., A Stem Rot Pathogen of Groundnut. Res. Jr. of Agril. Sci. 11(3): 499-506.
44. Dalvi Sanjay M and Rakh RR (2019). Utilization of phosphate solubilizing bacteria (PSB) for sustainable agriculture. Int. J. of Life Sciences, 7 (4): 691-699.
45. R. R. Rakh, L. S. Raut and S. M. Dalvi (2021) In Vitro Vetting for Phosphate Solubilizing Bacteria (PSB) from Healthy Plants Rhizospheric Niches. Research Journal of Agricultural Sciences. 12(1): 331-337.
46. L. S. Raut, R. R. Rakh, and V. S. Hamde (2021) In vitro biocontrol scenarios of *Bacillus amyloliquefaciens subsp. amyloliquefaciens* strain RLS19 in response to *Alternaria macrospora*, an *Alternaria* leaf spot phytopathogen of Bt cotton. Journal of Applied Biology & Biotechnology Vol. 9(1), pp. 75-82.

Conference / Seminar / Workshop Paper Presented:

1. Raut, L. S., **Rakh, R. R.** and Manwar, A. V. "Studies on Isolation and screening of siderophore producing organisms from rhizospheric soil," (**Poster Presentation**) at **National Conference** on Emerging trends in biotechnology

- for modern era held at Department of Biotechnology, College of computer science and Information technology, Latur during Sept., 29-30, 2007.
2. **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 Mahavidyalaya, Udgir, on Feb., 8-9, 2008.
 3. **Rakh R. R.**, Raut, L. S., Dalvi, S. M., Aithal, S. C. and Manwar, A. V. “Efficacy of Secondary metabolites of rhizospheric isolate CA/RN against *Sclerotium rolfsii* Sacc,” (**Poster Presentation**) in ICBF, BRSI sponsored **International Congress** on Bioprocesses in Food Industries organized by the Department of Microbiology and University College of Technology, Osmania University, Hyderabad, on 6th -8th November, 2008.
 4. Sanjay Dalvi, **Rakh, R. R.** and Bodke, S. S. “ *Ex situ* Conservation of Rare Ethno Medicinal Plants through Seed-Gene Bank,” (**Oral Presentation**) in UGC, and S. R. T. M. U. Nanded sponsored **National Conference** on “Plant Biology and Biotechnology,” organized by Department of Botany, Lal Bahadur Shastri Mahavidyalaya, Dharmabad-431 809, Dist. Nanded. (M.S.) India, on 21-22 November 2009.
 5. Khole A. M., J. M. Gaikwad, and **R. R. Rakh**, “Studies on Some Thermophilic Algae at Unakeshwar,” (**Oral Presentation**) in UGC sponsored **National Conference** on “ Current Perspectives in Limnology,” organized by Department of Zoology, Yogeshwari Mahavidyalaya, Ambajogai and Indian Association of Aquatic Biologists, Hyderabad, on 25th - 26th December 2009.
 6. Sanjay Dalvi, **Rakh, R. R.** and Bodke, S. S. “Studies of Some Indigenous Medicinal Plants of Mahur Hills in Nanded District of Maharashtra,” (**Oral Presentation**) in UGC, and S. R. T. M. U. Nanded sponsored **National Conference** on “Recent Trends in Plant Sciences for Rural Development” organized by Department of Botany, Nagnath Art’s Commerce and Science College, Aundha Nagnath, Dist. Hingoli (MS), on 20th -21th February 2010.
 7. Deshmukh R. S., **R. R. Rakh**, S. M. Dalvi, and S. S. Bodke, “Effect of Inoculation of *Trichoderma* and *Gliocladium* on Incidence of Stem rot of Groundnut,” (**Oral Presentation**) in UGC, and S. R. T. M. U. Nanded sponsored **National Conference** on “Recent Trends in Plant Sciences for Rural Development” organized by Department of Botany, Nagnath Art’s Commerce and Science College, Aundha Nagnath, Dist. Hingoli (MS), on 20th -21th February 2010.

8. Sanjay Dalvi, **R. R. Rakh**, Deshmukh R. S., and S. S. Bodke, "Ethnomedicinal Uses of Some Indigenous Plant Species of Maharashtra Region," (**Poster Presentation**) in XXXIII Conference of Indian Botanical Society and **International Symposium** on the New Horizons of Botany organized by Department of Botany, Shivaji University, Kolhapur on 10th -12th November 2010.
9. R. S. Deshmukh, **R. R. Rakh**, S. M. Dalvi, and S. S. Bodke, "The Genus *Lecanidion* From India," (**Poster Presentation**) in XXXIII Conference of Indian Botanical Society and **International Symposium** on the New Horizons of Botany organized by Department of Botany, Shivaji University, Kolhapur on 10th -12th November 2010.
10. **Rakh R. R.**, Raut, L. S., and Manwar, A. V. "Siderophore Producing *Pseudomonas cf. monteilii* 9 for Assured Biological Control of *Sclerotium rolfsii* Causing Stem Rot of Groundnut," (**Poster Presentation**) in 51th AMI (Annual Conference), BIT Mesra, CUJ Jharkhand, BAU, sponsored **International Congress** on Recent Advances in Cross-disciplinary Microbiology: Avenues & Challenges organized by the Department of Biotechnology, Birla Institute of Technology, Mesra, Ranchi-835215, Jharkhand, (India) on 14th -17th December, 2010.
11. **Rakh R. R.**, Dalvi S. M., Raut, L. S., and Manwar, A. V. "Biomangement of Stem Rot of Groundnut by *Pseudomonas aeruginosa* AL 98" (**Poster Presentation**) in UGC sponsored **National Conference** on "International Year of Biodiversity 2010: A Review on Indian Biodiversity and its conservation" organized by the Department of Zoology and Fisheries, Shri Shivaji College, Parbhani (M. S.) on 16th -17th December 2011.
12. **Ravindra R. Rakh** (2012) "Biocontrol of Plant Diseases for Human Welfare: Biocontrol of Stem Rot of Groundnut by *Pseudomonas cf. monteilii* 9." (**Poster Presentation**) in **National Seminar** on 'Science, Scientists & Society in 21th Century' organized by Faculty of Science, Mahatma Basweshwar Mahavidyalaya, Latur on 30th March 2012.
13. **R. R. Rakh** (2012) "*IN VITRO* AND *IN VIVO* BIO-MANAGEMENT OF *Sclerotium rolfsii* CAUSING STEM ROT DISEASE OF GROUNDNUT BY *Pseudomonas monteilii* 9" (**Poster Presentation**) in UGC sponsored **National Conference** on 'Recent Trends in Botany' organized by Department of Botany, Padmabushan Vasantdada Patil College, Patoda, Dist. Beed, on 18 - 19th October 2012.

14. Dalvi Sanjay M and **R. R. Rakh** (2012) "STUDIES ON ETHNOBOTANY OF MARATHWADA REGION IN MAHARASHTRA STATE OF INDIA" (**Poster Presentation**) in **International Symposium** and XXII Annual Conference of Indian Association for Angiosperm Taxonomy on 'Innovative Prospects in Angiosperm Taxonomy (ISIPAT-2012)' organized by Department of Botany, Sant Gadge Baba Amravati University, Amravati, on 28 - 30 October 2012.
15. **R. R. Rakh**, L. S. Raut and S. M. Dalvi (2012)" In *Vitro* Biomangement of Fusarium Wilt of Groundnut by using *Pseudomonas cf. monteilii* 9" (**Poster Presentation**) in UGC sponsored **National Conference** on 'Recent Trends and Future Prospects in Life Sciences' organized by Department of Botany, Mahatma Gandhi Mahavidyalaya, Ahmedpur, Dist. Latur, 27 - 28th December 2012.
16. D. C. Kamthane and **R. R. Rakh** (2013) "In Vitro Growth Promotion of Soybean (*Glycine max*) by *Rhizobium japonicum*", (**Poster Presentation**) in UGC & SRTMU, Nanded Sponsored **National Conference** on "Recent Trends in Plant Sciences For Rural Development" organized by Department of Botany, Mahatma Basweshwar Mahavidyalaya, Latur, on 7 - 8th August 2013.
17. **R. R. Rakh** and L. S. Raut (2013) "Screening for Biocontrol Agent against *Sclerotium rolfsii*, Stem rot pathogen of Groundnut", (**Poster Presentation**) In UGC & SRTMU, Nanded Sponsored **National Conference** on "Emerging Trends in Plant Sciences" organized by Department of Botany, B. Raghunath College, Parbhani, on 29 - 30th December 2013.
18. **R. R. Rakh** and Raut L. S. (2014) Microbial Screening for Biocontrol of Stem Rot Disease, Caused by *Sclerotium rolfsii* Sacc, (**Poster Presentation**) In **National Conference** proceedings of "Role of Life Forms in controlling Pollution" organized by Department of Botany, Dayanand Science College, Latur. Page No. 312 - 319.

Conference / Seminar/ Workshop/ Training Programm attended:

1. 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.
2. Attended and participated in one day seminar on "Genes, Genetics and DNA-2008," Organized by Department of Microbiology, DSM College, Parbhani and Microbiologists Society of India, on 25th January 2008.

3. Attended and participated in workshop on “Basis Molecular Biology Techniques,” Sponsored by UGC, New Delhi and S. R. M. T. U., Nanded and Organized by Department of Biotechnology, Yeshwant Mahavidyalaya, Nanded-431 602 (M.S.) from 23rd to 26th March, 2009.
4. Attended the State level Seminar on “ Sources and Applications of Phytochemicals” organized by the Department of Botany, Dr. B. A. M. University, Aurangabad on 27th October 2009.
5. Attended and participated in the one day workshop on “Advances in Computer Aided Drug Designing” organized by School of Life Sciences, S. R. T. M. University, Nanded and School of Technology, S. R. T. M. University Sub-Centre, Latur in Collaboration with VLife Science Technologies Pvt. Ltd. Pune, on 18th Feb. 2010.
6. Participated and successfully completed short Term Training Course in Mushroom Cultivation held at Tushar Bahuuddeshiya Gramodyog Sanstha and Tushar Mushroom Udyog Plot No. 01, Gat No. 94/01, opp. side of P.H.C., Shahapur, Bhandara-441 904 (M.S.) on 7th April 2010.
7. Attended the State Seminar on “Examination Reforms” organized by N. E. S. Science College, Nanded on 13th February 2014.
8. Attended and participated in the one-day workshop on “Newly Designed Curriculum of B. Sc. II and M. Sc. I (CBCS Pattern) for Microbiology” organized by Department of Microbiology, Indira Gandhi (Sr.) College, CIDCO, Nanded, on 31 July 2014.
9. Participated in the one day workshop on “Analytical Instruments” organized by Netaji Subhashchandra Bose Art’s, Commerce and Science College, Nanded, on 25 September 2014.
10. Participated in the one day Regional workshop on “Research Paper Writing & Presentation Skill” organized by Science College, Nanded on 17 September 2014.

Memberships of Professional Bodies:

1. Member of MUCTA, S. R. T. M. U., Nanded.
2. Life Membership of Association of Microbiologists of India (AMI)
3. Life Membership of Microbiologists Society, of India (Osmanabad)
4. Life Member ship of The Indian Science Congress Association

Book:

Book Title	ISBN Number	Name of Publisher	Year of Publication
Immunology - I (MB334)	Self ISBN:978-93-5473-210-2	Amazon Kindle Edition	2020

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R.R. Rakh, S. M. Dalvi and L. S. Raut	New Trends in Management of Stem Rot Disease of Groundnut Caused by <i>Sclerotium rolfsii</i> Sacc, by Using Microbial Control Agents	ISBN:978-1638329138	New Trends in Life Sciences Notion Press 1 st edition	2020
S. M. Dalvi, L. S. Raut and R.R. Rakh	New Trends in application of Phosphate Solubilizing Bacteria (PSB) for Growth Promotion of Crops	ISBN:978-1638329138	New Trends in Life Sciences Notion Press 1 st edition	2020

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