

CURRICULUM VITAE

- 1) **Name** : Dr. Sunil Trimbak Pawar
- 2) **Educational Qualification** : M.Sc. Ph.D. (Microbiology)
- 3) **Present Designation** : Professor and Head, Department of Microbiology
- 4) **Date of Birth** : 28th May, 1968
- 5) **Contact No.** : 09423251465
- 6) **Email ID** : sunilttpawar@yahoo.com.in
- 7) **Date of Appointment** : 01/08/1991
- 8) **Teaching Experience** : 32 Years
- 9) **Date of joining in present colleg** : 01/08/1991

Educational Qualification:

| Sr. No. | Examination Passed | University/ Board | Year of Passing | Subject(s) | Class/ Grade |
|---------|------------------------------|---|-----------------|--------------|-------------------------------------|
| 1. | B.Sc. Microbiology | University: Shivaji University, Kolhapur, M.S., India | 1986 – 1989 | Microbiology | First class with distinction 70% |
| 2. | M.Sc. Microbiology | University: Shivaji University, Kolhapur, M.S., India | 1989 – 1991 | Microbiology | First class 62% |
| 3. | Ph.D. Microbiology | University: North Maharashtra University, Jalgaon, M. S., India | 2004 – 2009 | Microbiology | Awarded |

4) Total Research Publications : 16

a. M.Phil. / Ph.D./Research

| Sr. No. | M.Phil./ Ph. D. Thesis Title | Name of The Univ. | Year of award | Name of Guide |
|---------|--|--|---------------|-----------------------|
| 1. | Studies on ecological and biotechnological aspects of halotolerant | North Maharashtra University, Jalgaon, M. S., India Place of work: School Of Life Sciences, | 2004 – 2009 | Dr. Pravin R. Puranik |

| | | | | |
|--|---------------|--|--|--|
| | cyanobacteria | | | |
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b. Book:

| Sr. No. | Title of Book | Year of publication | ISBN | Name & Place of Publisher |
|---------|---------------|---------------------|------|---------------------------|
| | | Nil | | |
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c. Chapter in Book:

| Sr. No. | Title of Book & Name of Editor | Title of the Chapter | Year of publication | ISBN | Name & Place of Publisher |
|---------|--------------------------------|----------------------|---------------------|------|---------------------------|
| | | | Nil | | |
| | | | | | |

d. Research Paper:

| Sr. No. | Title of the Paper | Name of Journal | Month and Year of publication | ISBN | UGC. No./Impact Factor/ Citation Details |
|---------|--|--|-------------------------------|------|--|
| 1 | Screening of Halotolerant Cyanobacteria for antifungal activity. | <i>World journal of Microbiology and Biotechnology</i> | 2008 | - | 24(7): 1019-1025 (IF 1.5,Citation-15) |
| 2 | Ecology and Biodiversity of cyanobacteria from saline soils. | <i>Eco. Env. & Cons.</i> | 2013 | - | 19(2): 437-444 |
| 3 | Isolation, Screening and optimization of exopolysaccharide producing bacterium from saline soil. | <i>J. Microbiol. Biotech. Res.</i> | 2013 | - | 3 (3):24-31 (Citation-14) |

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|---|---|---|---------------|---|---|
| 4 | C-phycoerythrin production by halotolerant cyanobacteria. | <i>Phykos</i> | 2014 | - | 44(1):25-35. (Citation-1) |
| 5 | Screening and characterization of Pesticide Degrading cyanobacteria from Pesticide contaminated Agricultural Soil. | <i>Phykos</i> | 2015 | - | 45(1):85-91. (Citation-1) |
| 6 | Screening and optimization of indole 3 acetic acid producing non-heterocystous cyanobacteria isolated from saline soil. | <i>Academic Journal of Biosciences</i> | 2016 | - | 4(9); 738-744 |
| 7 | Screening of silver nanoparticles producing Cyanobacteria and its characterization. | <i>Int. Res. J. of Science and Engineering, Special issue</i> | 2017 | - | A1: 44-54 |
| 8 | Studies of Plant Growth Promoting Rhizobacterial Inoculants on Sugarcane in Saline Soil. | International Journal of Pharmacy and Biological Sciences | February 2019 | - | Volume 9, Special Issue 2- ICESMT 2019, 168-178, |
| 9 | Isolation, Characterization and Identification of Probiotic Lactic Acid Bacteria and Bacteriocin Productio. | International Journal of Pharmacy and Biological Sciences | 2019, | - | Volume 9, Special Issue 2- ICESMT, 2019, 36-43 |

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| 10 | Augmentation of Halotolerant Cyanobacteria to Restore Soil Properties and Promote the Plant Growth in Saline Soil. | International Journal of Pharmacy and Biological Sciences | 2019 | - | Volume 9, Special Issue 2-ICESMT, 2019, 19-35. |
| 11 | Extended and Pan-drug resistance in <i>Klebsiella pneumoniae</i> due to Carbapenemase and Extended Spectrum beta-lactamase enzymes. | Journal of medical science and clinical research, | 2019 | - | Volume 7 issue12. |
| 12 | Extracellular Biosynthesis of Silver Nanoparticles using Bacterial isolate from saline soil. | Journal of Nanoscience and Technology | 2020 | - | |

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| 13 | Isolation, Characterization and identification of exopolysaccharide producing bacteria from industrial waste water as a bioflocculant. | International Research Journal of Modernization in Engineering Technology and Science. | 06/June-2021 | - | Volume:03/Issue :06/June-2021, 3393-3401 |
| 14 | Studies of multidrug resistant Klebsiella pneumoniae. | Asian journal of research in chemistry and pharmaceutical sciences | 2021 | - | vol.9 issue(1) 2021, 20-26. |
| 15 | Antibiogram of Acinetobacter species isolated from various clinical samples. | Asian journal of research in chemistry and pharmaceutical sciences | 2021 | - | vol.9 issue(1) 2021, 41-51 |
| 16 | Composting of municipal organic solid waste and biological way for odor removal- A review. Bulletin of Environment. | Pharmacology and life Sciences | January 2023 | - | 18-27.online ISSN 2277-1808 |

e. Research Project:

| Sr. No. | Name of Funding Agency | Project Title | Funds Received | Month and Year of sanction | Duration of the Project | Status of Project |
|---------|---|---|----------------|----------------------------|-------------------------|-------------------|
| 1 | Tuljaram Chaturchand College, Baramati, Amount: Rs. 2, 00, 000/-, | “Cyanobacterial Bioaugmentation of pesticide contaminated soil” | 2,00,000/- | (2008 – January 2010), | 3 Year | Completed |

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|----|-----------------------------------|---|--------------|-------------------------------|--------|-----------|
| | (BCUD, University of Pune, Pune). | | | | | |
| 2. | (UGC, New Delhi). | “Algal soil-acclimatizers for cultivation of plantlets in saline soil” | 8,70,807/- | (March 2011 – February 2014), | 3 Year | Completed |
| 3. | (DBT, New Delhi) | “Bioremediation of salt affected soils using halotolerant PGPR and cyanobacterial inoculants” | 46.15 Lacks, | (2013-2016) | 3 Year | Completed |

f. Papers presented in Seminar / Conference:

| Sr. No. | Name of the Conference/ Seminar | Title of the paper | Date | Level (State/ National/ International) | Name of the Organizer |
|---------|--|---|-----------------|--|--|
| 1 | National Conference on “Futuristic Trends in Biotechnology” | “Biotechnological potentials of salt tolerant unicellular cyanobacterium, <i>Synechococcus</i> sp. isolated from sulfur spring” | Nov 19-21, 2005 | National | Vellore Institute of Technology, Vellore, T.N |
| 2 | National Conference on Recent Trends in Environmental Science” | Halotolerant Cyanobacterial Biodiversity of Saline Soils and its Applications in Biotechnology | Feb 5-6, 2006 | National | ASC College, Chalisgaon |
| 3 | First Avishkar Interuniversity Competition | “Biopotentials of Halotolerant Cyanobacteria”. | 15-16 Dec.2006 | Zonal | North Maharashtra University, Jalgaon. (2 nd Prize Winner) |
| 4 | State level conference on Biotechnology for Rural Development. | Bioremediation of saline soil by halotolerant cyanobacteria. | Feb: 20-21,2009 | State level | Adarsh Mahavidyalaya, Omerga, Dist. Osmanabad (1 st Prize winner) |

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| 5 | Innovation-2009-10, A Regional teacher's conference Organized by BCUD, University of Pune, Pune. | "Cyanobacterial Bioaugmentation of pesticide contaminated soils." | Dec.19-20, 2009 | Zonal | Vidya Prathisthan's Arts Commerce and Science college, Baramati Dist Pune |
| 9 | North Maharashtra University at the First Avishkar Interuniversity | "Biopotentials of Halotolerant Cyanobacteria" | 15-17 Feb 2007 | State level | Sant Tukdoji Maharaj Nagpur University, Nagpur. |
| 10 | C.V. Raman Memorial Seminar. | Extraction and purification of Cyanobacterial Phycocyanin from Halotolerant Cyanobacteria | 28 th Feb 2007 | Zonal | North Maharashtra University, (1 st prize winner) |
| 11 | 7 th Asia-Pacific International Conference on Algal Biotechnology" | Characterization of Extracellular polysaccharide produced by halotolerant Cyanobacteria. | Dec.14,2009 | International Conference | University of Delhi, India |
| 12 | Presented a paper, in "New horizon in applied sciences". | New horizon in applied sciences". | Sept. 14-15, 2012 | State level | Department of Chemistry, Sharadchandra Pawar Mahavidyalaya, Lonand |
| 13 | National Conference on Recent Developments in Mathematics and Statistics. | Recent Developments in Mathematics and Statistics | Feb, 14-16, 2013 | National | Tuljaram Chaturchand College, Baramati, |
| 14 | National Conference on Bioengineering | Bioengineering | Mar 15-16, 2013 | National | College of Engineering, Pune, |

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|----|--|--|---|---------------------|---|
| 15 | UGC sponsored International Conference. | Emerging horizons in Biochemical Sciences and Nanomaterials | 28 th – 30 th Nov. 2013 | International | Shri Shivaji Mahavidyalaya Barshi. Dist Solapur M.S |
| 16 | UGC sponsored National Conferenc. | Modern methods in detection, Identification and Quantification of Microorganisms | 18 th Feb. 2014 | National Conference | Bharathi Vidyapeeth University, Yashwantrao Mohite college, Pune. |
| 17 | Two days state level symposium cum workshop. | Production of Bioinoculants. | 17 th -18 th Feb 2016 | State level | Vidya Prathisthan's Arts, Science and Commerce College, Baramati. Dist Pune. |
| 18 | International conference on "Microalgal and cyanobacterial biotechnology MACB-2016" organized by National Facility for Marine Cyanobacteria, Bharathidasan | "Cyanobacterial inoculants for sustainable agriculture development" | 30 Aug –1 Sept 2016 | International | University, Tiruchirappalli, Tamil Nadu, India |
| 19 | National Conference on "Recent trends and opportunities in life science". | "Cyanobacteria: Laboratory methods & Applications in Biotechnology" | 24-25 January 2016) | National | Department of Botany, Microbiology and Zoology, PDEA's Waghire College, Saswad. |
| 20 | National Conference on Recent trends in Biotechnology and Biodiversity (NCBB-2017) | "Studies of halotolerant PGPR inoculants on sugarcane grown in saline soil" | 22-23 September 2017 | National | Shree Shivaji Science College, Amravati. |
| 21 | International conference on Applied Nanotechnology and Nanoscience | Screening of silver nanoparticles producing Cyanobacteria and its characterization | 7-9 Dec 2017 | International | T C College Baramati and Nano and Molecular society (nms) |

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g. **Patents published/Register:** Puranik P.R., Deshmukh D.V., Pandav P.V., Patel V.E., Pawar S.T. and Puranik K.P. (2010) Natural blue pigment and process for producing the same. (Indian Patent Appl. No. 689/MUM/2010 dt 15.03.2010).

12) Research Guidance:

a) Guide ship Details

| Sr. No. | M.Phil./ Ph.D. Guide | Name of University | Month & Year of recognition | No. of Research Scholars | |
|---------|------------------------------|---|--------------------------------|--------------------------|------------|
| | | | | Completed | Perusing |
| 1 | Prof. Dr. S. T. Pawar | North Maharashtra University, Jalgaon-425001, Maharashtra, India | 12 th November 2013 | 01 | NIL |
| 2 | Prof. Dr. S. T. Pawar | Solapur University, Solapur-413255, Maharashtra, India | 06 th May 2014 | 01 | 01 |
| 3 | Prof. Dr. S. T. Pawar | Savitribai Phule Pune University, Pune-411007, Maharashtra, India | 23 rd April 2015 | | 06 |

b) Research Guidance

| Sr. No. | Name of Scholar | Name of University | Month and Year Registration | Title of the Research |
|---------|------------------------------|--|-----------------------------|--|
| 1 | Mr. Amarsinh Arvind Bhosale. | University: North Maharashtra University, Jalgaon-425001, Maharashtra, India | 06/05/2013 | Topic: Studies on plant growth promoting cyanobacterial inoculants for the development of nursery plantlets in saline soil. Degree awarded |

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|---|------------------------------|--|------------|---|
| | | | | march-2018 |
| 2 | Mrs. Suman Dattatray Jadhav. | University: Solapur University, Solapur-413255, Maharashtra, India | 01/01/2015 | Topic: Studies on antibiotic resistance of <i>Klebsiella pneumoniae</i> isolated from clinical samples. Degree awarded-Aug-2022 |

13) Professional recognition / award/ fellowship etc.

14) E-Content Development:

| Sr. No. | Title of Content | Level (UG/ PG / ALL) | Platform | Link of E-Content |
|---------|------------------|----------------------|----------|---|
| 1 | Ribozyme | UG | You Tube | https://youtu.be/0oQGXsdgKwo?si=IO0LH5lyiAMYpNG5 |

15) Work Experience on Academic Bodies and other:

| Sr. No. | Designation/ Position | Duration | Name of Institute / University | Details |
|---------|--------------------------|-----------|---|---------|
| 1 | Lecturer (Part Time) | 1991-1992 | Department of Microbiology, Tuljaram Chaturchand College, Baramati, Dist- Pune 413102 | - |
| 2 | Lecturer | 1992-1998 | Department of Microbiology, Tuljaram Chaturchand College, Baramati, Dist- Pune 413102 | - |
| 3 | Senior Lecturer | 2003-2006 | Department of Microbiology, Tuljaram Chaturchand College, Baramati, Dist- Pune 413102 | - |
| 4 | Selection Grade Lecturer | 2003-2006 | Department of Microbiology, Tuljaram Chaturchand College, | - |

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| | | | Baramati, Dist- Pune 413102 | |
| 5 | Head of the Department | Aug 2004- March 2005 | Department of Microbiology, Tuljaram Chaturchand College, Baramati, Dist- Pune 413102 | - |
| 6 | COC-Coordinator | 2003-2005 | Clinical Pathology, Microbiology department, T. C. College, Baramati | - |
| 7 | On FIP (Faculty Improvement Program) | March 2005- March 2007 | Department of Microbiology, Tuljaram Chaturchand College, Baramati, Dist- Pune 413102 | - |
| 8 | Reader | Aug 2009- Jan 2010 | Department of Microbiology, Tuljaram Chaturchand College, Baramati, Dist- Pune 413102 | - |
| 9 | Associate Professor | June 2006- 04/02/2022 | Department of Microbiology, Tuljaram Chaturchand College, Baramati, Dist- Pune 413102 | - |
| 10 | Post graduate Co- ordinator | JUNE 2007 – MARCH 2014 | Department of Microbiology, Tuljaram Chaturchand College, Baramati, Dist- Pune 413102 | - |
| 11 | Head of Department | 11 Aug 2020 till date | Department of Microbiology, Tuljaram Chaturchand College, Baramati, Dist- Pune 413102 | - |

16) Life Membership of Profession Bodies:

| Sr. No. | Name of Professional Body |
|---------|---|
| 1. | Life Member of Biotechnological Research Society of India (BRSI). |

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| 2. | Life Member of Association of Microbiologist of India (AMI). |
| 3. | Life Member of Microbiologists society of India (MSI). |
| 4. | Life member of Biotechnological Research Society of India (BRSI) |
| 5. | Member of College Development Committee (CDC) at Tuljaram Chaturchand College, Baramati. Autonomous. |
| 6. | Member of Academic council at Tuljaram Chaturchand College, Baramati. Autonomous. |
| 7. | Member of Academic council at Savitribai Phule Pune University, Pune |
| 8. | Chairman of BOS in Microbiology at Tuljaram Chaturchand College, Baramati. Autonomous. |
| 9. | Chairman of BOS in Microbiology at Savitribai Phule Pune University, Pune |

17) Any other Attainment:

- Participated a workshop on “Research Techniques in Cyanobacteriology and Bioinformatics Techniques” organized by National Facility for Marine Cyanobacteria and Bioinformatics Centre, Bharathidasan University, Tiruchirappalli, Tamil Nadu.
- Participated in the First INDO-US LECTURE SERIES on “Discrete Mathematical Chemistry” jointly sponsored by (IUSSTF) and (DST) held at PES Institute of Technology, Bangalore, India (8-11 Jan 2007).
- Participated in one day workshop on “Academic Performance Indicators with reference to 6th pay commission” at M. S. Kakade College, Someshwar, Tal- Baramati, Dist-Pune (19 Sept 2010).
- (11-12 Nov. 2014) participated in the workshop organized by Arti institute of Rural technology for preparation of coal from plant waste material” at Phaltan Dist Satara M.S.
- Participated in Two days workshop on “T. Y. B. Sc. Microbiology Syllabus Discussion, Organized by BCUD and Savitribai Phule Pune University, Pune(30 -31 Jan 2015)
- Participated in one day workshop on ,Restructuring of Syllabus for M Sc. Microbiology NEP2020 jointly organized by BOS in Microbiology, Savitribai Phule Pune university, Department of Microbiology and IQAC, HPT and RYK Science College, Nashik On Monday 17/07/2023.
- (Sept 27-28 2005) Attended the **National seminar on Intellectual Property Rights** organized by **North Maharashtra University, Jalgaon**
- (Feb 2-3, 2006) Attended a Seminar on “**Integrated Pest Management**” organized by School of Life Sciences, NMU, Jalgaon under UGC-SAP
- (Feb.20-March3,2006) **Participated in Workshop on Research Techniques in Cyanobacteriology and Workshop on Bioinformatics Techniques (WORTIC and WOBIC-2006)** conducted by National Facility for Marine Cyanobacteria and Bioinformatics Centre, **Bharathidasan University, Tiruchirappalli, T.N.**
- 2-4 Nov 2006) **Presented a poster** on Screening of Halotolerant Cyanobacteria for Antifungal Activity.3rd convention of BRSI and **International conference** on Exploring Horizon’s in

Biotechnology: A Global Venture held at **Department of Biosciences, Sardar Patel University Vallabh Vidyanager, and Gujrat, India.**

- 8-11 Jan 2007) **Participated** in the **First INDO-US LECTURE SERIES ON DISCRETE MATHEMATICAL CHEMISTRY** jointly sponsored by (IUSSTF) and (DST) held at **PES Institute of technology, Bangalore, India.**
- 7-8 Feb 2007) **presented a poster**, “Screening of Exopolysaccharide producing Halotolerant Cyanobacteria”. **State Level Conference** on Recent Trends In Microbial Biotechnology, held at **R. C. Patel College, Shirpur, Dist-Dhule. M.S. (2nd Prize winner**
- Screening of halotolerant cyanobacteria for commercially important metabolites, presented as a resource person at the **National Conference** held at **Shree Shivaji Mahavidyalaya, Barshi, 12-13 Feb 2007.**
- (19-20 Nov, 2007) **presented a poster**, “Antifungal activity of halotolerant Cyanobacteria”. **Innovation-2007, BCUD, held at, University of Pune, Pune.**
- 14 Feb 08 -1 Feb 08) **presented a poster**, “Screening of Halotolerant cyanobacteria for commercially important metabolites” held at **Vidya Prathisthan’s Arts Commerce and Science college, Baramati Dist Pune**
- (Dec. 2008) **Presented a poster**, “Cyanobacterial Bioaugmentation of pesticide contaminated soils.” **Innovation-2008, A teacher’s conference Organized by BCUD, University of Pune, Pune** held at Vidya Prathisthan’s Arts Commerce and Science college, Baramati Dist Pune
- (3rd Jan 2009) Attended the UGC–SAP SEMINAR, “Genetically modified crops” at School of Life Sciences, North Maharashtra University, Jalgaon.
- (Feb.25-27,2010) **Presented a poster**, “Screening of halotolerant Cyanobacterial diversity for Phycocyanin Production. “**International symposium on Phycological research**” Organized by Center of Advanced study in Botany, **Banaras Hindu University, Varanasi** University of Delhi, India and Indian Phycological society, new Delhi, India held at University of Delhi, India.
- (Jan.5,2010) **Participated** In one Day Seminar on “**Mathematics for Biologists**” **sponsored by BCUD, University of Pune** at M. P. College, Pimpri, Pune.
- Sept.19,2010) **Participated** In one Day Workshop on “**Academic Performance Indicators with reference to sixth pay commission**” at M. S. Kakade College, Someshwar, Dist. Pune.
- (Nov.24-26, 2011) **Presented a poster**, “Ecology and biodiversity of cyanobacteria from saline soil. National conference organized by National academy of science, India (NASI). **National Symposium on “Sustainable management of Biodiversity using science and technology.”** At. University of Kerala, Karrivattom, Thiruvananthpuram.
- Feb.3-5, 2012) **Chaired the session and presented a poster**, “**21st APSI scientists meet 2012 and National Conference on Recent trends in plant sciences**” held at Tuljaram Chaturchand College, Baramati
- (Jan.11-12, 2013), **Presented a poster**, at Yashwantrao Chavan Institute of Science, Satara, **National Seminar on “Applied Microbiology for Globe Protection**
- (Feb, 7-8, 2013), **Presented poster**, at Parvatibai Chowgule College of Arts & Science, Margao, Goa, **National Conference on Plant Sciences.**
- (June 25-26,2013) **Participated as a resource person**, at R.Y.K. college Nashik, A two day workshop on “**Detailing of credit and semester syllabus of M.Sc. Microbiology**”

- (18th Feb. 2014) Participated In the **UGC sponsored National Conference on “Modern methods in detection, Identification and Quantification of Microorganisms”** organized by Bharathi Vidyapeeth University, Yashwantrao Mohite college, Pune
- (Dec.1-5,2014) **Presented a poster and Chaired a session** at North Maharashtra University, Jalgaon, **at an international conference; Third global sustainable biotech congress, 2014** Dec.1–5,2014 at North Maharashtra University, Jalgaon, India
- (30 – 31 January 2015) worked as a resource person **In Two days workshop on “T. Y. B.Sc. Microbiology Syllabus Discussion”** Organized by **S. P. Mahila Mahavidyalaya, Shardanagar and BCUD SPP university, Pune.**
- (26 Dec. 2015) participated in one day seminar on **“Role of IQAC in Institutional Quality Improvement”** organized by **Tuljaram Chaturchand College Baramati, Dist-Pune M.S.**
- (23 rd Jan 2016) Participated and Chaired the Session **in one day state level workshop on “Viral Epidemics and Urban Health”** At **H. V. Desai College Pune.**
- (9 – 10 Feb 2016) Presented a poster entitled, **“Studies on PGPR of saline soil.”** At **ITCPB-2016, Two days International conference, organized by Annasaheb Magar Mahavidyalaya Hadapsar, Pune. M.S.**
- (11-13 Feb.2016) Presented a poster and Chaired a session in the **“International conference on plant sciences and resource management”** Organized by **T. C. College Baramati, Dist-Pune. M.S.**
- **(11-12 Jan 2018)** Studies of halotolerant PGPR inoculants on soyabean grown in saline soil” Presented a poster in a national seminar on Recent trends in plant sciences and Agricultural Research jointly organized by Zonal Agricultural Research station, Solapur And Daynand college of arts and science, Solapur.
- Studies on PGPR of saline soil 59 th Annual Conference of Association of Microbiologist of (India AMI 2018)
- **(7-9 Feb 2019)** Chaired a session and worked as a **“Organizing secretary”** International conference: Empowering Society with Microbial Technology, organized by Department of Microbiology, Tuljaram Chaturchand College, Baramati Dist Pune
- Chaired a session: Microbes for Clean Environment.organised by Taywade College, Mahadulla-Koradi Nagpur and Microbiologist’s Society, India
- Chaired a technical session of online oral presentation as a Moderator at International conference on Biotechnology for better tomorrow (ICBBT-2022) organized by Microbiologists society India, Udayana University and VPASC college, Baramation 29-30 th Oct-2022
- **First Prize** for best Paper Presented at State Level conference at Adarsh Mahavidyalaya, Omerga, Dist. Osmanabad, (2009) for paper entitled, “Bioremediation of saline soils using halotolerant cyanobacteria”.
- **First Prize** for Paper Presented at C.V. Raman Memorial Seminar held at North Maharashtra University, Jalgaon on 28th Feb 2007, Paper entitled, “Extraction and purification of Cyanobacterial phycocyanin from halotolerant cyanobacteria”.
- **Second Prize** for best Poster Presented at State Level Conference on “Recent Trends in Microbial Biotechnology”, held at R.C. Patel College, Shirpur. Dist: Dhule. M.S., 7-8 Feb

2007. Poster entitled, “Screening of Exopolysaccharides Producing Halotolerant Cyanobacteria”.

- **Second Prize** at the First Avishkar, an Inter-University Presentation Competition held at North Maharashtra University, Jalgaon, 15-16th Dec.2006, Paper entitled, “Biopotentials of Halotolerant Cyanobacteria”.
- **First prize (Best Poster Presentation Award)** at an international conference; Third global sustainable biotech congress, 2014 Dec.1–5,2014 at North Maharashtra University, Jalgaon, India

Invited talks

1. Screening of halotolerant cyanobacteria for commercially important metabolites, **presented as a resource person at the National Conference held at Shree Shivaji Mahavidyalaya, Barshi, 12-13 Feb 2007.**
2. **“Cyanobacteria today and tomorrow”,** presented as a resource person at (Refresher course in Life Sciences) **Academic Staff College, University of Pune, Pune, 20th Feb 2011.**
3. **“Cyanobacteria, Potential application in Biotechnology presented as a resource person** at (FIP-Short term program) organized by Tuljaram Chaturchand College, Baramati Sponsored by **Academic staff college, University of Pune, Pune, 15th- 20thoct. 2011.**
4. **Worked as a resource person,** at R.Y.K. College Nashik, A two day workshop on **“Detailing of credit and semester syllabus of M.Sc. Microbiology”** 25-26, June 2013.
5. Worked as a resource person **In Two days workshop on “T. Y. BSc Microbiology Syllabus Discussion” Organized by S. P. Mahila Mahavidyalaya, Shardanagar and BCUD SPP university, Pune** (30-31 January 2015).
6. **“Production of Bioinoculants”** Presented as a resource person at **Two days state level symposium cum workshop held at Vidya Prathisthan’s Arts, Science and Commerce College, Baramati. Dist Pune.17th-18th Feb 2016.**
7. **“Cyanobacterial inoculants for sustainable agriculture development”** Presented a paper in the **International conference on “Microalgal and cyanobacterial biotechnology MACB-2016”** organized by **National Facility for Marine Cyanobacteria, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India (30 Aug – 1 Sept 2016)**
8. **“Cyanobacteria: Laboratory methods & Applications in Biotechnology”** Presented as resource person at **National Conference on “Recent trends and opportunities in life science”** organized by Department of Botany, Microbiology and Zoology, PDEA’s Waghire College, Saswad **(24-25 January 2017)**
9. **“Cyanobacteria: as a Bioinoculants.”**Presented as a Invited Speaker for **certificate course and training programme on, Bioprocess Technology for Bioinoculants.** at Vidya Prathisthan’s Arts Science and Commerce college, Baramati.(20 Feb 2018)
10. Delivered Invited Talk in One Day Workshop on **“Bioinoculant Production: Lab to Field & Public Advocacy”** organized by Department of Microbiology, VPASC College, Baramati on 5th February 2020
11. Participated as a resource person in one day workshop on ,Restructuring of Syllabus for M Sc. Microbiology NEP2020 jointly organized by BOS in Microbiology, Savitribai Phule Pune university, Department of Microbiology and IQAC, HPT and RYK Science College, Nashik On Monday 17/07/2023.

12. Participated as a resource person in TWO day workshop on ,Restructuring of Syllabus for B.Sc. I Microbiology NEP-2020 jointly organized by BOS in Microbiology, Savitribai Phule Pune university and Department of Microbiology and IQAC, Sinhgad Science College, Pune dated 20-21 Oct. 2023.