

Dr. Supriya Kore



Designation : Assistant Professor
Email ID : supriyakore@dpu.edu.in
Contact Number : 9225527120

Educational Qualifications

Ph. D. (1999): Dr. B. A. M. University, Aurangabad
M. Sc. Microbiology (1996): Institute of science Aurangabad, First Class.
B. Sc. Microbiology (1994): Dayanand Science College Latur, First Class.
H. S. C. (1991): Deshikendra High School, Latur, First Class

Employment Experience

1. **Senior Research fellow**, Indian Council for Agricultural Research (1996-1999)
2. **Guest Lecturer**, Dept. of Environmental Science, University of Pune, (10.01.2000 - 31.03.2000)
3. **Lecturer**, Dayanand Science College, Latur (31.08.2000 -26.11.2001)
4. **Visiting Faculty**, Dr. D.Y. Patil Institute of Pharmaceutical Science and Research (10.08.2004 - 30/04/2005)
5. **Head of department of allied sciences**, College of management and research engineering, Pune (15.09.2005 – 08.10.2006)
6. **Lecturer**, Dr. D. Y. Patil Biotechnology and Bioinformatics Institute Akurdi, Pune (25.09.2006-24.07.2008)
7. **Assistant Professor** Dr. D. Y. Patil Biotechnology and Bioinformatics Institute Tathawade Pune (24.07.2008-till date)

Field of Specialization: Microbiology, Microbial Technology and Genetics

Specific Areas of Research Interest:

Essential oils and their applications in food preservation.
Arbuscular Mycorrhizal Fungal diversity.

Membership in Scientific Societies

Life Member of Indian Pharmaceutical Journal
Life Member of Biotech research society India

No. of Ph.D., Postdoctoral, M.Phil. /M.Sc. students Guided:

Ph. D.	: 1+ 2 (in Process)
Projects	
B. Tech Biotechnology	: 11
M. Tech (Int.) Biotechnology	: 5
M. Sc. Biotechnology	: 18 + 1 (Other University)

Publications

1. Meena U. Patil, M.K. Kulkarni and **Supriya Nakade** Mineral Biocomposition of Marine algae and their possible utilization (2000) *Dr. B.A.M.U. Journal of Science* Vol. No. XXX
2. Patil M. U. Kulkarni, M.K. **Supriya Nakade** and Karuna Rao (1998) Algal Biocomposition and their possible utilization *Jr. of Aquatic Biology* Vol. 13 (1 and 2) **ISSN: 0971-4235**
3. Nilesh Gawade, **Supriya Kore**, Rachna Pandey and Madhukar B. Khetmalas (2010). Antibacterial Activity of *Coriandrum sativum* (seeds) Against Drug Resistant Human Pathogenic Bacteria. *Herbal Tech Industry Journal*: 6(1):19-23 **ISSN: 0974-6153**
4. K. Venkateswara Swamy, **Supriya Kore**, Rachna Pandey, Madhukar Khetmalas (2011) Extraction, Isolation, Molecular Modeling and Optimization of Antimicrobial Agents from *Coriandrum sativum* *Curr. Trends in Biotechnology and Pharmacy*. 5(1)1038–1042 **ISSN: 0973-8919**
5. **Supriya Kore***, Kartik Sachdeva, Hemanshu Katpal, Neelam Shelke and Madhukar Khetmalas, Evaluation of the antimicrobial potential of *Embllica officinalis* against clinical isolates. *Trends in life Sciences* Vol. 3-2: 2014 **ISSN: 2319-4731**
6. Dharmendra Singh, Suhas Gorpade, Vidhi Thakkar, Thesmi Thomas and **Supriya Kore** Antifungal activity of thirty one different essential oils against plant pathogenic fungi. *Life Sciences International Research Journal* (2016) Vol. 3 Issue 2 **ISSN 2347-8691 & ISBN 978-93-84124-90-8 page 36-39**
7. Kharde, A. V., **Kore, S. V.** and Khetmalas, M. B. (2018). Elicitation of Bacoside and Biomass production using plant growth regulators in suspension culture of *Bacopa monnieri* (L.) Wettst. *Plant Tissue Cult. & Biotech.* **28** (2): 191-199. DOI: <https://doi.org/10.3329/ptcb.v28i2.39678>
8. Afrin Mansuri, Kiran Lokhande, **Supriya Kore**, Swapnil Gaikwad, Neelu Nawani, K Venkateswara Swamy, Manisha Junnarkar, Srika Pawar, (2020): Antioxidant, anti-quorum sensing,

biofilm inhibitory activities and chemical composition of Patchouli essential oil: *in vitro* and *in silico* approach " *Journal of Biomolecular structure and Dynamics*.

DOI: <https://doi.org/10.1080/07391102.2020.1810124>

Book Chapter

1. **Supriya Kore** (2015): "Biotransformation of Arsenic in Environment Mediated by Microorganisms" In *Microbial factories* Vol. 1 Pg. No. 315-332 Springer Publication.
DOI https://doi.org/10.1007/978-81-322-2598-0_18

Research Grants

1. **Dr. D. Y. Patil Vidyapeeth Pimpri, Pune** funded "Investigation of chemical constituents and antibacterial activity of *Coriandrumsativum* seeds" of Rupees 2,00,000/-.
2. **Dr. D. Y. Patil Vidyapeeth Pimpri, Pune** March 2015-2018 "Evaluation of antimicrobial agents as food preservatives and treatment of food borne diseases" of Rupees 1,80,000/-.
3. **Dr. D. Y. Patil Vidyapeeth Pimpri, Pune** "Quality improvement and increase in shelf life of different food products using essential oil" of Rupees 6,00,000/-.

Co-principle Investigator

1. **Dr. D. Y. Patil Vidyapeeth Pimpri, Pune** March 2016-2019 In vitro enzymatic studies on protease inhibitors originating from plant source to analyze their antimicrobial potential.
2. **Dr. D. Y. Patil Vidyapeeth Pimpri, Pune** 2015-2018 Evaluation of toxicity studies of *Tridax procumbens* flower extract.
3. **Dr. D. Y. Patil Vidyapeeth Pimpri, Pune** 2015-2018 To study the anticancer effects of *Aegle marmelos* on breast cancer cells and colorectal carcinoma cells.

Trainings /Workshops/ Seminars/ Conferences

1. Yash Kuber, Deepika Yadav, Thesmi Thomas, Afrin Mansuri, Ashwnin Puntabekar, Manjusha Dake, **Supriya Kore**: Analysis of Antioxidant Activity of Some Essential Oils using DPPH, ABTS, CUPRAC Assay and Total Phenolic Content National Symposium on "Recent Advances in Modern Biology and Biotechnology 14-16 March 2019, Pune. (**First prize for Best Poster presentation cash prize 2000/- Rs**)
2. Deepika Yadav, Yash Kuber Afrin Mansuri, Vidhi Thakar, Sarika Pawar and **Supriya Kore**, Chemotaxonomic Analysis of essential oils using Thin-layer Chromatography National Symposium on "Recent Advances in Modern Biology and Biotechnology 14-16 March 2019, Pune. (**Second prize for Best Poster presentation cash prize 2000/- Rs**)
3. Ayushi Tiwaria, Afrin Mansuria, Shuchi Nagar, Khushboo Pandey, Swapnil Gaikwad, **Supriya Kore**, Manisha Junnarkar, Neelu Nawani and Sarika Pawar, Inhibitory action of Bergamot oil against

Uropathogen quorum sensing activity: *In vitro* and *in silico* approach National Symposium on “Recent Advances in Modern Biology and Biotechnology 14-16 March 2019, Pune.

4. Kirthika Naira, Afrin Mansuria, Shuchi Nagar, Swapnil Gaikwad, Khushboo Pandey, **Supriya Kore** Manisha Junnarkar, Neelu Nawani and Sarika Pawar, Effect of Neroli oil on quorum sensing activity: *in vitro* and *in silico* approach National Symposium on “Recent Advances in Modern Biology and Biotechnology 14-16 March 2019, Pune.
5. Denge S., **Kore S.V.**, Dake M.S., Puntambekar A. N. (2018) “Biochemical studies on the plant protease inhibitor from black eyed peas (*Vigna unguiculata*).” poster presentation at CSIR-IICT Platinum Jubilee International Conference on Biotechnological Research Innovation for Sustainable Development “XV BRSI Convention”, Hyderabad, India.
6. A.V. Kharde, V. D. Deshmukh **S.V. Kore** and M. B. Khetmalas Interaction effect of *Piriformospora indica* on growth and bioactive component production in Brahmi. International conference on microbial Technology for Better Tomorrow (ICMTBT) 17-19 Feb 2018.
7. Revati Joshi, Rupali Parmanand, **Supriya Kore (2018)** Antimicrobial potential of plant extracts for clarification of different water samples from Pune International conference on microbial Technology for Better Tomorrow (ICMTBT) Feb 17-19 2018.
8. Priyanka Mishra, Suhas Ghorpade, Dharmendra Kumar Sing, Afrin Mansuri, **Supriya Kore (2018)** In-Vitro antibacterial activity of nine different extracted essential oils against food pathogenic microorganisms. International conference on microbial Technology for Better Tomorrow (ICMTBT) Feb 17-19.
9. Prasad Patil, Sumi Sarkar, **Supriya Kore (2018)** Antioxidant capacity, phenolic contents, chelating and antibacterial activities of seven different plant leaves extracts. International conference on microbial Technology for Better Tomorrow (ICMTBT) Feb 17-19.
10. Annu Giri, Afrin Mansuri, Krishna Kumar Baldawa, Tejas Pingale and **Supriya Kore (2017)** Antimicrobial activity of plant essential oils interactions with food ingredients, National conference on Recent Trends in Food and Agri Biotech. Sinhgad College of Engineering Pune 14-15 September
11. Krishna Kumar Baldawa, Afrin Mansuri, Annu Giri, Tejas Pingale and **Supriya Kore (2017)** Phytotoxic Activities of Clove and Thyme Essential Oils National conference on Recent Trends in Food and Agri-Biotech. Sinhgad College of Engineering Pune 14-15 September
12. Prasad Patil, Suhas Ghorpade, Dharmendra Kumar Singh, Afrin Mansuri, Vidhi Thakar, **Supriya Kore (2017)** Assessment of antioxidant activity and phenolic contents of extracted essential oils National conference on Recent Trends in Food and Agri Biotech. Sinhgad College of Engineering Pune 14-15 September



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13. Tejas Pingale, Afrin Mansuri, Krishna Kumar Baldawa, Annu Giri, Rohan Rakshit and **Supriya Kore** (2017) Antimicrobial edible packaging film for preservation of food National conference on Recent Trends in Food and Agri Biotech. Sinhgad College of Engineering Pune 14-15 September
14. Samiksha Kakde, Manisha Pandey, Ghanshyam Tandon, **Supriya Kore** (2016) "Comparative analysis of wine produced from six different fruit sources" International Conference on Current Trends in Biotechnology (ICCB) VIT University, Vellore 8-10 December.
15. Suhas Ghorpade, Dharmendra Kumar Singh, Samiksha Kakde, **Supriya Kore** (2016) "In vitro antimicrobial activity of essential oils on food pathogenic bacteria" International Conference on Current Trends in Biotechnology (ICCB) VIT University, Vellore 8-10 December.
16. Sayantani Roychoudhury, Thesmi Thomas, **Supriya Kore** (2016) Antioxidant activity, total phenolic contents and total flavonoids contents of essential oils" International Conference on Current Trends in Biotechnology (ICCB) VIT University, Vellore 8-10 December.
17. Afrin Mansuri, Vidhi Thakar, **Supriya Kore** (2016) TLC-Direct Bioautography detection of antioxidant compounds present in different essential oils" International Conference on Current Trends in Biotechnology (ICCB) VIT University, Vellore 8-10 December.
18. Prachi Bhole, Disha Patel, Sasmita Nath, Madhukar Khetmalas and **Supriya Kore** (2016) Bioprospecting potential of bacterial endophytes isolated from different medicinal plants Partial meeting scholarship and travel award for Next Gen. Genomics, Biology, Bioinformatics and Technologies (NGBT) conference which will be held in Oct 3-5th (Awarded partial scholarship, include travel award, conference fee waived and cash prize of 2000/- Rs.)
19. Maitreyee Pathak, Rupali Parmanand, Glen D'Souza and **Supriya Kore** (2016) Potential use of plant derived antimicrobial peptides for disinfection of water Partial meeting scholarship and travel award for Next Gen. Genomics, Biology, Bioinformatics and Technologies (NGBT) conference which will be held in Oct 3-5th (Awarded partial scholarship, include travel award, conference fee waived and cash prize of 2000/- Rs.)
20. B. Shelar, R. Rakshit, **S. Kore** Preparation and characterization of biodegradable antimicrobial packaging film containing essential oil. International conference on agricultural sciences and food technologies for Sustainable Productivity and Nutritional Security held at University of Agricultural Sciences, Bangalore (India) during 25-27 August 2016.
21. Dharmendra Singh, Suhas Gorpade, **Supriya Kore** Antifungal activity of thirty one different essential oils against plant pathogenic fungi, Proceedings of the International Conference on Microbiology, Agriculture & Environmental Sciences - 2016 with ISBN 978-93-84124-89-2
22. Neelu Nawani, Akshyake Binayske, Rupali Aursang, Sadiya Nagi, **Supriya Kore**, Amol Raut, Sofiane Ghorbel, Noomen Hmidet and Madhukar Khetmalas, "Studies on actinomycetes from

selected arid regions of India, 25eme forum International des Sciences Biologiques et de Biotechnologie, 25-27 March 201, Hammamet, Tunisia.

23. Sasmita Nath, Disha Patel, Madhukar Khetmalas, **Supriya Kore** Isolation of endophytic bacterial cultures from different medicinal plant parts and their antimicrobial potential International conference on advances in Biotechnology and Bioinformatics 2013 November 25th-27 2013 Pune
24. Akshay Binayak, **Supriya Kore**, Sofiane Ghorbel, Noomen Hmidet, Madhukar Khetmalas, Neelu Nawani Isolation of *Actinomyces* sp. From arid and semi-arid habitat International conference on advances in Biotechnology and Bioinformatics 2013 November 25th-27 2013 Pune
25. Sumi Sarkar, Ashwini Tare, **Supriya Kore** Screening of antibacterial, antioxidant and chelating activity of seven different plant extracts International conference on advances in Biotechnology and Bioinformatics 2013 November 25th-27 2013 Pune
26. Glen D'Souza, Rupali Parmanand **Supriya Kore** and Madhukar Khetmalas. Studies on antimicrobial proteins/peptides in disinfection of water. Recent Trends in Emerging Infectious Diseases and Environmental Pollution. January 2013 Solapur.
27. Mayuri Kulkarni, Ashwini Tare, **Supriya Kore** and Madhukar Khetmalas. Biological control of Mosquito by using novel insecticidal bacterial species. Recent Trends in Emerging Infectious Diseases and Environmental Pollution. January 2013 Solapur.
28. Kartik Sachdeva, Abhiram Gokhale, Ashlesha Sangmuley, **Supriya Kore** and Madhukar Khetmalas. Evaluation of the Antimicrobial potential of *Emblica officinalis* against clinical isolates. 4th Indian Youth Science Congress November 9-11, 2012 Nagpur.
29. Abhiram Gokhale, Mihir Khapli and **Supriya Kore** Studies on the antibacterial activity of the endophytic actinomycetes isolated from different parts of *Solanum lycopersicum* 3rd Indian Youth Science Congress November 3rd-5th, 2011 NASC Complex New Delhi.
30. Himanshu Kathpal, **Supriya Kore**, M. B. Khetmalas Antimicrobial potential of Triphala: An ayurvedic formulation National Seminar on Frontiers in Biotechnology and Bioinformatics, DYPBBI 12th Feb 2011- Pune
31. M. Panda and **Supriya Kore** Antimicrobial activity of protein of *Moringa oleifera* and *Raphanus sativus* National Seminar on Frontiers in Biotechnology and Bioinformatics, DYPBBI 12th Feb 2011 Pune.
32. N. R. Shelke, P. P. Desai, **Supriya Kore** and M. B. Khetmalas Screening of antibacterial activity of twelve plants against human drug resistant pathogens National Seminar on Frontiers in



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Biotechnology and Bioinformatics, DYPBBI 12th Feb 2011 Pune. (*Second prize for Best Poster presentation*)

33. Presented poster a poster “Assessment of rhizoplane and endorhizosphere bacterial communities from *Sorghum bicolor* and their influence on seedling growth”, J. M. Sonawane, **S. V. Kore** and M. B. Khetmalas: International workshop on Rhizosphere Biology of Agriculture, Horticulture & Forestry: Present & Future (February 25-27, 2010) Organized by G. B. Pant University of Agriculture & Technology at G. B. Pant University of Agriculture & Technology, Pantnagar.
34. Presented a Poster in International Conference on Emerging Trends in Biotechnology & 6th Annual Convention of the Biotech Research Society, India December 4-6 (2009). Organized by Banaras Hindu University, Varanasi. Nilesh Gawade, **Supriya Kore**, Rachna Pandey, K. V. Swamy, Madhukar B. Khetmalas. Detection and molecular modeling of antimicrobial activity of *Coriandrum sativum* CCl₄ Seed extract against drug resistant human bacterial pathogens.
35. Presented a paper in 3rd International / 15th National symposium on Recent Trends in Life Science held at Banglore University, Bangalore (11th – 13th Feb. 1999) **Antimicrobial effect of fraction extracted from algae *Sargassum Cinereum* on human pathogen.**
36. Presented a paper in UGC Sponsored state level symposium on “Assessment of environmental pollution due to industrialization and urbanization” Vasundhara 2000 (10th – 11th Feb. 2001) held at Latur.” **Observation on Hemophilic bacteria isolated from salted fish.**
37. Invited for Seminar on Guidelines to SET and NET examination in life science, April 24th to 25th 1999 at Zoology department Dr. B.A.M. University, Aurangabad.
38. Presented a Poster in National Seminar of Biotechnology for Rural and Industrial Development held at Gulberga University, Gulberga (11th – 23rd Dec, 1995) Phirke N. V. Chanchalani R.L. **Nakade S.S**, Deshpande S. S and Dharmadhikari S.M. Studies on Production of α Amylase using *Bacillus stercorophilus*.

Reviewer

Arabian Journal of Geosciences

Training Programme



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1. **Presentation Skills: Designing Presentation Slides** an online certificate course on Coursera National Research Tomsk State University (2020).
2. **Antimicrobial resistance–theory and methods** an online certificate course on Coursera By Technical University of Denmark (2020).
3. Participated in national webinar on Intercultural Property Rights protection through patent under Faculty development Programme organized by MIT Academy of Engineering Central Library and R and D cell Alandi Pune on 6th June 2020.
4. One Week Online International Faculty Development Programme on **Skilling Teachers for online Education**. UKA Tarsadia University during 2-6 June 2020.
5. One day national Online Seminar On **Research Writing Enhancing Visibility** organized by Ramnarain Ruia Autonomous College, Mumbai, held on 21st May 2020
6. One week International Online Faculty Development Programme “**Innovation, IPR and Entrepreneurship**” Organized by Pillai HOC College of Arts, Science and Commerce, Rasayani 04-10 May 2020
7. Attended two days State Level Seminar on, **Recent Advances in Separation Technology** organized Sinhgad College of Engineering Pune on 24th-25th January 2019.
8. Participated in the training on **Smart Board-enabled Teaching** workshop conducted by UCPEFD and SDC on 7th January 2019
9. Participated in training workshop on **Introduction to Swayam, Moocs ans Moodle**, organized by conducted by University Centre for Professional Education and faculty Development (UCPEFD) and software development cell 20 January 2018
10. Participated in workshop on Development and Training of E Content conducted by UCPE and FD and SDC on 12th January 2017.
11. Attained two day workshop on **Nomenclature of Archaea and Bacteria** Held in Microbial culture collection Pune held during 9th -10th September 2016.
12. Participated in training conducted by Software Development Cell On **Use of Advanced Features of Campus ERP** in Academics 8 January 2016
13. Participated in training workshop on How to make effective Power Point Presentation. Conducted by Software Development Cell. N 8th January 2015
14. Delegate **Biotech Prospects** 17th Sept 2011 MITCON Institute of Management, Pune
15. Participated in Sixty-sixty **Annual Session of the National Academy of Science, India (31st Oct – 2nd Nov. 1996)** held at Dr. B.A.M. University, Aurangabad

Positions Held

1. Alumni and Placement In-charge from 2016 till date
2. Member, Academic Council member of Dr. D. Y. Patil Vidyapeeth Pimpri (2010-2016)
2. Member, Board of Studies Dr. D. Y. Patil Vidyapeeth Pimpri (2016-2020)
3. Member, Board of faculty Dr. D. Y. Patil Vidyapeeth Pimpri from (2016-2020)
4. Chairman of different committee: Examination, Academic Time Table and Extra-Curricular activity.
5. Treasurer: International Conference on Advances in Biotechnology and Bioinformatics ICABB 2013



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Examination Duties

1. Center observer: State Eligibility Test (SET) conducted on 6/09/2015, 29/05/2016 and 16/04/2017
2. Invited as external examiner for M. Tech Biotechnology project presentation KIT College Kolhapur
3. External examiner for practices and moderator setter for BE biotechnology Sinhgad College of Engineering
4. Deputed for participate seminar on Indian medicinal plants update 2000 organized by Marathwada Development Board, Aurangabad (23rd –24th Sept. 2000) at Latur.

Events organized/coordinated

Chairman for extra-circular activity

1. Different actives for year 2011-2012 and organized for students **Cytosoul 2012** at Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Pune
2. Different actives for year 2012-2013 and organized **Cytosoul 2013** at Acharya Atre Rang Mandir. Pimpri
3. Different actives for year 2013-2014 and organized **Cytosoul 2014** at Acharya Atre Rang Mandir. Pimpri.