

# Kavita Khobragade

## Assistant Professor (Microbiology)

### Mahatma Gandhi Arts, Science & Late N. P. Commerce College, Armori (September-2021)

An enthusiastic, adaptive, and fast-learning person with a broad and acute interest in discovering new innovative drugs by enjoying experimental work. The sound teaching & administrative experience of mine strengthens the work efficiency of any sort.

## EXPERIENCE

### Sardar Patel, Mahavidyalaya Chandrapur Gondwana University, Gadchiroli *Ph.D. Research Scholar*

Thesis Submitted

- Play a key role in the drug design, develop and in-vitro examination of EOs against the virulent factor of pathogenic *S. aureus*.
- Communicate new concepts to reduce multidrug-resistant bacteria.
- Presentation and Publication of scientific data, and co-ordinate of interdisciplinary projects

### Mahatma Gandhi Arts, Science & Late N. P. Commerce College, Armori *Assistant Professor* July 2012 – April 2018

- Head of Microbiology Department
- Prepared and delivered lectures and laboratory sessions for the student by adapting new teaching-learning methods as per university curriculum to UG student.
- Familiar in working at college and university department.
- Monitored and provided specific information and documentation of student reading needs and their respective progress.
- Served in many academic and administrative committees as assigned.

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## SKILLS

- Microbiology: Isolation, Identification, cultivation and maintenance of bacteria.
- Immunology: ELISA, Agglutination, Complement Fixation, TLC Blood counts, and western blot test.
- Molecular Biology: PCR, Gel-electrophoresis, DNA and RNA extraction.
- Instrumentation (used in Microbiology Study)
- Teaching
- Software: MS-Office, Adobe acrobat, Zotero, Mendeley, R-programming, and Arithmetic.

## Research Interest

- Bacterial diversity and microbial ecology.
- Antimicrobial activity
- Environmental and Soil Microbiology.
- Molecular Biology
- Biotechnology.
- Waste water Microbiology
- Industrial Microbiology

## AWARDS AND FELLOWSHIP

- Fellowship from Dr. Babasaheb Ambedkar Research & Training Institute, Pune (M. S.) From April, 18- 2017 to April, 17-2020.
- Senior Research Fellowship (BANSRF) award- April-2019 to April-2020
- Junior Research Fellowship (BANJRF) awarded - April-2017 to April-2019.
- Chatrapati Shahu Maharaj SSC merit Fellowship- July 2005 to June 2007
- Chhatrapati Rajashri Shahu Maharaj SSC Merit Award in 2005.
- SAMATA SSC Merit Award in 2005.

## EDUCATION

### **Gondwana University, Gadchiroli – Ph.D. (Microbiology)**

Thesis Submitted

**Thesis: “Inhibition of Staphyloxanthin Virulent Factor Biosynthesis In Staphylococcus aureus By Various Essential oil.”**

Supervisor: **Prof. Dr. Vaishali U Thool**

### **RTM Nagpur University, Nagpur – Master of Science (Microbiology)**

June 2012

Final percentage – 63.60% (First class)

Dissertation: “Microbiology of Indian Chutneys”

Supervisor: **Dr. V. S. Wadhai**

### **RTM Nagpur University, Nagpur — Bachelor of Science (Microbiology, Botany, Chemistry)**

June 2010

Final percentage - 58% (Second class)

### **Nagpur Board, Nagpur — Higher Secondary Certificate (Science)**

June 2007

Final percentage – 64.66% (First class)

### **Nagpur Board, Nagpur — Secondary School Certificate**

June 2005

Final percentage – 82.40% (First class with distinction)

## PUBLICATION

Khobragade, K. D., Thool, V. U. and Thool, U. (2021). ESSENTIAL OILS HAVE GREAT POTENTIAL IN MOUNTING AN OXIDATIVE STRESS RESPONSE IN STAPHYLOXANTHIN PRODUCING STAPHYLOCOCCUS AUREUS. *Journal Of Advanced Scientific Research, ICITNAS-2021*, 91-99.

Khobragade, K. D., & Thool, V. U. (2020). “A Comparative Study of Essential Oils as Antimicrobial Agents against STX Producing Staphylococcus Aureus.” *Parishodh Journal*, Volume IX, Issue III: 4342-4351.

Khobragade, K. D., & Thool, V. U. (2018). “ESSENTIAL OILS A PROMISING THERAPY FOR STAPHYLOCOCCAL INFECTIONS.” *Int. J. of Pharmacy and Biological Sciences* vol 8, Special Issue 1:103-107.

Khobragade, K. D., & Thool, V. U. (2018). “Effect of antistaphylococcal activity of various essential oils against STX pigment producing Staphylococcus aureus.” *Int. J. of. Life Sciences*, Special Issue, A12: 110-112.

Thool, V. U., & Khobragade, K. D. (2018). “Inhibition of STX Virulence Factor Biosynthesis in Staphylococcus aureus by Thyme EO.” *Int. J.*

## Extracurricular Activities

- First Prize “Avishkar 2019-20” Inter-University Research Convention
- Participated in “Avishkar 2019-20” 14<sup>th</sup> Maharashtra State Inter-University Research Convention

## PRESENTATION

- International Conference on Microbial Technology for Better Tomorrow ICMTBT at D.Y. Patil College of Arts, Commerce and Science, Pimpri, Pune, 17-19 February 2018
- Poster topic: “ESSENTIAL OILS A PROMISING THERAPY FOR STAPHYLOCOCCAL INFECTIONS.”
- National Seminar on Modern Perspectives in Life Sciences (MPLS-2018) at Gramgeeta College, Chimur Dist. Chandrapur (M. S.)
- Poster topic: “Effect of antistaphylococcal activity of various essential oils against STX pigment producing Staphylococcus aureus.”
- International Conference on Materials and Environmental Science (ICMES-2018) 7th -8th December, 2018 at Shivaji University, Kolhapur (M. S.)
- Poster topic: “The Evaluation of Essential Oils for Antimicrobial Activity against Staphyloxanthin producing S. aureus.”
- National Seminar on Technological options for Sustainable Solid Waste Management, 3<sup>rd</sup> Jan 2012. at Dhote Bandhu Science College Gondia (M. S)
- Poster topic: “Microbiology of Indian chutneys.”
- National Conference on Biodiversity Conservation For a Better Biosphere, 2<sup>nd</sup> Feb 2012 at Anand Niketan College of

of. Life Sciences, Special Issue, A12: 107-109

Khobragade, K. D., & Thool, V. U. (2017), "Evaluation and Production of Staphyloxanthin Virulence Factor Biosynthesis in Staphylococcus aureus." SPM Student Research Magazine, Vol-7 (1):272-275.

Wadhai, V.S., & Khobragade, K.D. (2012). "Evaluation of Microbiological Safety of Indian Chutneys: A Case Study of Chandrapur City (India)" Science Research Reporter 2(1):56-58.

## CONFERENCES & WORKSHOPS

International Conference on Innovative Trends in Natural and Applied Sciences-2021, on 17<sup>th</sup> -18<sup>th</sup> August 2021 organized by, MAHATMA GANDHI COLLEGE OF SCIENCE, Gadchandur.

International Conference on Microbial Technology for Better Tomorrow (ICMTBT-2018) on 17<sup>th</sup> -19<sup>th</sup> February 2018 at Dr. D. Y. Patil Arts, Commerce & Science College, Pimpri, Pune.

Modern Perspectives in Life Sciences (MPLS-2018) on 9<sup>th</sup> - 10<sup>th</sup> March-2018 at Gramgeeta College, Chimur, Dist. Chandrapur.

International Conference on Materials and Environmental Science (ICMES-2018) on 7<sup>th</sup> -8<sup>th</sup> Dec 2018 at Shivaji University, Kolhapur.

Intellectual Property Rights (IPR) on 22<sup>nd</sup> Feb 2019 at M. G. College, Armori. Gadchiroli Maharashtra.

Tissue Culture workshop on 18<sup>th</sup> -19<sup>th</sup> March 2019 at Sardar Patel Mahavidyalaya, Chandrapur Maharashtra.

Research Data and Statistical Analysis Using R Programming. 6<sup>th</sup> -11<sup>th</sup> May 2019 at INFLIBNET Centre, Gandhinagar, Gujarat.

Research Methodology and Ethics: Anti-Plagiarism, Reference Management Tools, and Altmetrics 23<sup>rd</sup> - 28<sup>th</sup> September 2019 at INFLIBNET Centre, Gandhinagar, Gujarat.

Intellectual Property Right (IPR) on 12<sup>th</sup> Sep 2019 at SHRI DHYANESH MAHAVIDYALAYA, NAWARGAON Tah. Sindewahi, Dist. Chandrapur.

National e-Conference On INNOVATIVE SCIENCE AND TECHNOLOGY FOR SUSTAINABLE FUTURE on 31<sup>st</sup> May 2020 at Sardar Patel Mahavidyalay, Chandrapur (M.S.)

Workshop on Practical Aspects of Biotechnology held on 4 & 5 September 2010 at Department of Microbiology, Sardar Patel Mahavidyalaya Chandrapur- 442401.

Workshop on Molecular Biology (X-pert Teaching Kit on 20<sup>th</sup> Aug 2011, organized by Hi-media Laboratories Pvt. Ltd.

National Level Seminar on Recent Advances In Medical Microbiology and Immunology on 18<sup>th</sup> Oct 2011 at Department of Microbiology, Arts Commerce & Science College Koradi , Dist. Nagpur.

National Seminar on Technological options for Sustainable Solid Waste Management on 3<sup>rd</sup> Jan 2012 at Dhote Bandhu Science College Gondia (M. S).

National Conference on Biodiversity Conservation For a Better Biosphere on 2<sup>nd</sup> Feb 2012 at Anand Niketan College of Science, Arts & Commerce Anandwan, Warora Chandrapur (M.S.).

Science, Arts & Commerce Anandwan, Warora Chandrapur (M.S.).

- Poster topic: "Microbiology of Indian chutneys."
- Gondwana University Level Science Exhibition "INNOVO-2011 & Electronics Expo-2011"
- Poster topic: "Microbiology of Indian chutneys."

