



## CURRICULUM VITAE

### **Miss. Nilofar Yakub Nadaf**

Assistant Professor in Biology,  
Indian Institute of Information  
Technology, Pune, India.  
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### **VISION & OBJECTIVE**

I would like to excel simultaneously in the fields of research and education as both are my passions.

### **EDUCATION**

**Doctor of Philosophy, Microbiology,** (Thesis submitted)  
Department of Microbiology (07.2011 – 05.2017)  
Y.C Institute of Science, Satara  
**Title - 'Biosynthesis and applications of Metal Nanoparticles (gold, silver & zinc) by bacteria.'**

**Master of science, Microbiology,** (72.46 % Distinction) June 2007  
Department of Microbiology  
Y.C. College of Science, Karad, Shivaji University, Kolhapur.

**Bachelor of Science, Microbiology,** (64.40% First class) June, 2005  
Department of Microbiology  
Y.C. College of Science, Karad, Shivaji University, Kolhapur

### **TEACHING EXPERIENCE (TOTAL EXPERIENCE – 6 YEARS)**

#### **Assistant professor (2008-2013)**

*Department of Food & Industrial Microbiology, Mokashi College of Food technology, Affiliated to Mahatma Phule Agricultural University, Rahuri.*

#### **Lecturer (2007-2008)**

*Department of Microbiology, Y.C College of Science, Karad.*  
Taught Microbiology to F.Y. B.Sc. students.

#### **Lecturer (2007-2008)**

*Department of Microbiology, Balasaheb Desai College, Patan.*  
Taught Microbiology to S.Y.B.Sc. students.

## AWARDS AND ACHEIVEMENTS

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- 2016**      **ASRB-NET**  
National Eligibility Test (NET) is a qualifying examination for determining eligibility for the position of Lecturer/Assistant Professor in the State Agricultural Universities (SAUs) and other Universities (AUs).
- 2016**      **Best Poster Award** for poster presentation in International conference.
- 2015**      **Senior Research Fellow** at Y.C. Institute of Science, Satara.
- 2013**      **Junior Research Fellow** at Y.C. Institute of Science, Satara.
- 2012**      **Resource Person** in Lead College Activity on 'Recent Trends In Food Science' organized by Balasaheb Desai College, Patan.
- 2010**      **Second prize winner** for poster presentation in national conference.

## RESEARCH AREAS OF INTERESTS

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Microbiology, nanoparticles synthesis, physico-chemical characterization and applications, enzymology, antimicrobial compounds.

## COMPETENCE IN RESEARCH

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### Research

- Biological synthesis of metal nanoparticles like gold, silver and zinc oxide using bacteriogenic route.
- Physico-chemical characterization techniques like X-ray diffraction (XRD), electron microscopy techniques (SEM, TEM), spectroscopy (UV-visible, FTIR) etc.
- Catalytic degradation of organic dyes.
- Characterization of bacteria
- PCR, RAPD, SNP.
- Electrophoresis (SDS, PAGE, Agarose), TLC.
- Animal experimentation (Rat) excision wound model and paw edema method.
- Microtomy, microscopy.
- Microbiological Techniques: Isolation and characterization and cultivation of a broad range of different bacteria.
- Antimicrobial activity of nanoparticles by well diffusion method.
- MIC, Enzymatic Assays
- Statistical analysis and data interpretation, MS office, Origin.

## COMPLETED PROJECTS

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### Projects Completed (As a part of educational curriculum):

- 'Screening of and studies on lipase producing bacteria from oily soil samples with respect to lipase production' at M.Sc. level under the guidance of Dr. N.R. Shaikh, Y.C. college of Science, Karad. The project involved isolation of lipase producing bacteria, lipase assay and optimization of lipase activity.

## **TRAININGS AND WORKSHOPS**

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**Participant: Hands on Workshop on 'Molecular Biology'** at Dept. of Biotechnology and bioinformatics, MGM's college of Computer science and IT, Nanded. May 2017

**Participant: Training program on 'Microbial identification and preservation'** at Microbial Culture Collection (MCC), NCCS, Pune. January 2015.

**Participant: Internal Auditor Training for ISO 22000:2005 & HACCP based FSMS**, Food Safety Training and Research Centre, Parbhani, Maharashtra. August 2011.

**Participant: Industrial Quality Control Microbiology (IQCM)** at Y. C. College of science, Karad. 2007.

## **RESEARCH OUTPUT**

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### **Publications in Peer reviewed Journals**

International/National Journals (Accepted and Published): **03**

**Nilofar Nadaf**, Shivangi Kanase, "Biosynthesis of gold nanoparticles by *Bacillus marisflavi* and its potential in catalytic dye degradation", *Arabian Journal of Chemistry*, 1-9, 2016. **(IF: 3.6)** (*Thomson reuters*).

**Nadaf N.Y.**, Kanase S.S., (2015). Antibacterial activity of Silver Nanoparticles singly and in combination with third generation antibiotics against bacteria causing hospital acquired infections biosynthesized by isolated *Bacillus marisflavi* YCIS MN 5, *Digest Journal of Nanomaterials and Biostructures*, 10 (4), 1189-99, 2015. **(IF: 0.9)** (*Thomson reuters*).

**Nadaf N.Y.**, Patil. R.S., Zanzurne C.S., (2012). Effect of addition of gulkand and rose petal powder on chemical composition and organoleptic properties of Shrikhand, *Recent Research in Science and Technology*, 4 (10), 52-55, 2012.

I hereby declare that the above information is true to my knowledge.

**Nilofar Y. Nadaf.**