

## CURRICULUM VITAE

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### **JOB EXPERIENCE:**

1. Working as Assistant Professor in B. Voc Department at Modern College of Arts, Science and Commerce, Ganeshkhind, Pune 16. (From 7<sup>th</sup> July, 2016) till date.  
Subject taught: Fundamentals of Microbiology, Food Chemistry and Nutrition, Applied Statistics, Waste Management in Food Industry.

### **EDUCATIONAL QUALIFICATION:**

SEMESTER	UNIVERSITY/ BOARD	YEAR	CLASS
M.Sc Biotechnology	SP Pune University	2015-2016	Distinction
B.Sc. Biotechnology	SP Pune University	2013-2014	First Class
H.S.C	Maharashtra State Board	2010-2011	Second Class
S.S.C	Maharashtra State Board	2008-2009	Distinction

### **RESEARCH PROJECTS:**

#### **1. MSc. Biotechnology part II Project:**

Title: Phytochemical, Antioxidant and Antibacterial activity of Crude *Moringa oleifera* extracts and Isolation of saponins from Fresh Pods extracts of *Moringa oleifera* and its *in vitro* studies.

Guide: Dr. Pooja Rana and Dr. Ayesha Khan.

Description: Phytochemical and antioxidant studies were carried out on crude extracts of *Moringa oleifera* leaves (dried) and pods (fresh) extracted in different solvents. Saponins were extracted from fresh pods (methanolic extract) and presence of saponins was confirmed by TLC and Foam Test. Saponins were isolated using Silica Gel Column Chromatography and types of saponins present were determined using LC-MS. The effect of saponin was checked on HepG2 cell Line. It was found that active fraction 1 was found to be more effective than 6.

#### **2. T.Y. Bsc. Biotechnology Project.**

Title: Bacterial Quorum sensing

Guide: Mrs. Vaishali Randive

Description: Growth Curve of *E. coli* and *Klebshiella pneumoniae* was taken. Bacteria were allowed to grow till stationary phase and then were centrifuged. Supernatant was mixed with fresh broth and growth curve was analyzed. It was found that bacteria keep themselves in lag

phase until 240 min on addition of supernatant indicating some presence of signal. On SDS PAGE analysis it was found that the signal may be protein in nature. Antibacterial assay of supernatant was performed indicating *E. coli* supernatant inhibiting *K. pneumoniae* growth.

**TRAINING:**

1. Attended Training Course on career advancement in collaboration with Pacemakerz, Pune. (13-15<sup>th</sup> Feb 2014)

**EXTRA CURRICULAR ACTIVITY:**

1. Participated in Anubhuti Science Exhibition conducted by Modern College, Ganeshkhind, and won
  - Second prize for poster presentation on HSP 90 (year 2015-2016)
  - Second prize for poster presentation on Immunotherapy in Cancer: BCG vaccine (year 2014-2015)
  - Third prize for project presentation Apoptosis in Cancer (year 2013-2014)
2. Participated in VIVIDHA, conducted by Modern College, Ganeshkhind, and won prize for Food stall. (year 2014-2015)
3. Volunteered a two-Days workshop on “Microscope: Handling & Trouble- shooting”
4. Participated in Biosynapse Inter-College Competition organized by RJSPM College Bhosari, Pune and won
  - First prize in poster competition: Apoptosis dance of death. (year 2013-2014)
  - First prize in Quiz. (year 2013-2014)
  - Prize Paper presentation Topic- Apoptosis & Carcinogenesis. (year 2013-2014)
5. Participated in poster competition conducted by Dept. of Zoology, Modern College, Ganeshkhind (year 2011-2012)

**SKILLS:**

1. Chromatographic Techniques
2. Isolation and Handling of DNA
3. Techniques in Biochemistry

**COMPUTER SKILLS:**

MS-CIT (MS Word, MS Excel, MS PowerPoint)