

## RESUME



**Malvika Shahurao Salve**

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### **Permanent**

34/1, Gawademala, Pipeline road  
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Maharashtra State, India.

### **Corresponding Address**

A-201, Mount Unique Residency, Pashan -Sus  
Road, Baner, Pune- 411045  
Maharashtra State, India.

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**Summary:** A firm believer of hard work, involvement at work places, enthusiastic, practical team player, Self-motivated. A highly adaptable person with fast learning capacity and believe in importance of deadlines. Currently pursuing PGDM in Business Management from NMIMS, Mumbai.

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### **Objective:**

To work in a challenging and dynamic environment towards a successful career in Business management especially in Finance/HR field by making the best out of my abilities and interpersonal skills. I want to see myself as an active contributor to a team of ambitious people and thereby enhance my knowledge and personality.

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### **I} PROFESSIONAL EXPERIENCE:**

#### **1. National Institute of Virology, Microbial Containment Complex (NIV-MCC), Pune**

**Tenure:** From November – 2019 to October- 2020

**Post held:** Project Technical Assistant, Biosafety Level-4 Laboratory

- a) Involved in planning and development of Serological assay i.e., Human IgM & IgG ELISA for SARS-CoV-2.
- b) Responsible for performing Serological assays for various viruses such as CCHF (Human and animals), KFD, Nipah Virus (Humans and Bats), Ebola, Hantaan. (Using both in-house and CDC Kits).

- c) Calibrating pipettes as well as maintain, update and procure data for NABL accreditation.
- d) Coating of ELISA plates (IgG & IgM) and Preparation of reagent stocks in the Serology lab.
- e) Preparation of lyophilized virus stocks for future requirements.
- f) Responsible for QC of reagents such as Antigen, Positive & Negative Controls and of ELISA plates.
- g) Maintaining inventories of Viral samples and Antigens of BSL-4 laboratories.

## **2. Springer Nature Technology and Publishing Solutions**

**Tenure:** From 9' Sept 2019 to 25' October 2019

**Post held:** Jr. Editorial Advisor (Biomedical Cluster)

- a) Responsible for Journal selection for Manuscript, Manuscript screening for English Language check, Plagiarism check, Duplication of experiments, etc.
- b) Transferring manuscripts to appropriate journals within Springer - Nature cluster for Publication.

## **3. Project Undertaken**

**Title:** Studies on association of Pattern Recognition Receptor (PRRs) genes polymorphisms (*TLR 3, TLR 8, MBL 2, DDX58, MXA1*) with Influenza disease severity (H1N1 patient samples; Sample size= 374).

- Place of Research: ICMR- National Institute of Virology, Pune, India.
- Guide: Dr. M. L. Choudhary, Scientist D, Human Influenza Department.

- a) Responsible for performing various laboratory techniques such as PBMC separation from clinical blood samples, DNA Extraction, PCR Standardization and routine PCR.
- b) Genotyping Assay: PCR-RFLP, Agarose gel electrophoresis
- c) Statistical analysis of different SNPs using SNP STATS, STAT CALC and R programming software.

## **II} Technical Skills:**

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### **I. Instrumental skills:**

1. Thermal cycler (Applied Biosystems)
2. Veriti Thermal cycler
3. Gel electrophoresis.
4. ELISA Plate reader (Biorad)
5. Lyophilizer

### **II. Experimental Skills:**

1. Techniques for DNA/RNA extraction by kit-based methods.
2. Protein estimation using Folin Lowry assay
3. Chromatographic techniques: Column & Paper chromatography

4. Serological assay: Coating and post coating of ELISA Plates, IgM captured ELISA , Direct & indirect ELISA.
5. Virus detection & propagation assays: Hemagglutination, Hemagglutination inhibition assay and Routes of inoculations in embryonated eggs.
6. Bioinformatics: Pairwise sequence alignments- BLAST, FASTA; Molecular Evolutionary Genetics Analysis (MEGA), Primer designing.
7. PCR-RFLP, Gel electrophoresis.
8. Preparation of media- LB-Agar, DMEM.

### III} **Non-Technical Skills**

Proficient in using MS-Word, MS-Office Power Point and MS-Excel

### **Educational Qualification:**

Degree		College/ University	CGPA/ Percentage	Year of Passing
PGDM Business Management	Semester I	NMIMS, Mumbai	N.A. (Presently Pursuing)	2022
M.Sc. Virology	Semester IV	ICMR- National Institute of Virology	8.51 CGPA/ 71.15%	2019
	Semester III		8.08 CGPA/ 67.08%	2019
	Semester II		7.59 CGPA/ 65.19%	2018
	Semester I		7.96 CGPA/ 65.61%	2018
B.Sc. Microbiology		Fergusson College	69.94%	2016
HSC 12 <sup>th</sup>		Maharashtra State Board	74.33%	2013
SSC 10 <sup>th</sup>		Maharashtra State Board	89.64%	2011

### **Papers Published:**

1. Detection of coronaviruses in *Pteropus & Rousettus* species of bats from different states of India.  
DOI: 10.4103/ijmr.IJMR\_795\_20 <http://www.ijmr.org.in/text.asp?2020/151/2/226/282433>
2. Development of indigenous IgG ELISA for the detection of anti-SARS-CoV-2 IgG.  
DOI: 10.4103/ijmr.IJMR\_2232\_20 <http://www.ijmr.org.in/preprintarticle.asp?id=286007>
3. Evaluation of the susceptibility of mice & hamsters to SARS-CoV-2 infection.  
DOI: 10.4103/ijmr.IJMR\_2235\_20 <http://www.ijmr.org.in/preprintarticle.asp?id=286096>

### **Conference attended:**

- State level workshop on Beekeeping and its role in Cottage Industry under Quality Improvement Program, SPPU (2015).
- 16<sup>th</sup> Indian association of Applied Microbiologists Conference on 'Human Microbiome in Personal medicine – Bridging human and microbes for future sustainability (2018).

**Certificates/ Courses:**

- Certificate course on Beekeeping at Central Bee Research and Training Institute, India (2016).
- Worked as **Climate Counsellor** at International Centre for Culture and Education; supported by United Nations Framework Convention on Climate change (2017)
- Introduction to Good Clinical Laboratory Practice, The Global Healthcare Network (e-learning course, 2019).
- Advanced MS-Excel (2019).
- WHO Health Emergencies programme:
  1. COVID-19: Operational Planning Guidelines and COVID-19 Partners Platform to support country preparedness and response
  2. Infection Prevention and Control (IPC) for Novel Coronavirus (COVID-19)
  3. Emerging respiratory viruses, including COVID-19: methods for detection, prevention, response and control

**Personal Data:**

1. Hobbies: Bird photography, Butterfly watching and Photography, Jungle trails/ treks.
2. Languages: English, Spanish. Regional Languages: Marathi, Hindi.
3. DOB: 18<sup>th</sup> July, 1995
4. Marital Status: Unmarried

**References:**

- Dr. Anita Aich , Scientist D , Maximum Containment Laboratory, ICMR-NIV, Pune  
Contact: [anitaach2008@gmail.com](mailto:anitaach2008@gmail.com)
- Dr. M. L. Choudhary, Scientist D, Human Influenza department, ICMR-NIV, Camp, Pune  
Contact: [mlchoudhary@gmail.com](mailto:mlchoudhary@gmail.com)
- Dr. V.S. Ghole, PhD., Coordinator, Academic Cell, ICMR-NIV, Pashan, Pune  
Contact: [gholevs@gmail.com](mailto:gholevs@gmail.com)
- Dr. Mangesh Gokhale, Scientist D, Entomology Department, ICMR-NIV, Pashan, Pune  
Contact: [gokhale40@gmail.com](mailto:gokhale40@gmail.com)

## **Declaration**

I hereby declare that the particulars furnished above are true and correct to the best of my knowledge.

Date: 29/11/2021

Place: Pune.



**Malvika Shahurao Salve**