# ISHAN PANDE

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Seeking a position to pursue a career in research. I am skilled in both experimental and computational lab. I would like to work in an environment where I can utilize my skills and adapt in different fields.

**Key skills:** Hard working, Adaptability, Opportunistic, Determined.

#### **EXPERIENCE**

#### FEBRUARY 2021 - PRESENT

#### SENIOR RESEARCH ASSOCIATE, SYNGENE INTERNATIONAL

- Performing biochemical assays like ALS assay, Thiol assay, PSII inhibition assay, Fungal mitochondrial electron transport assay, PDO assay, HPLC.
- Expression and purification of different enzymes.
- Isolation of thylakoids and mitochondria corn leaves and Septoria tritici respectively.
- Cell culture techniques, viability assays, other molecular and immune techniques include RNA isolation, cDNA library preparation, PCR, qRT PCR, Western blot, In-cell western, WES, AlphaLISA

#### **DECEMBER 2020 - TO - FEBRUARY 2021**

## Jr. SCIENTIST, CANARY HEALTH TECHNOLOGIES

- Member of the R&D team. Working on development of electrochemical biosensor for detection of different diseases.
- Grasping the knowledge of CRISPR/Cas system and aptamers and designing protocol for the development of biosensors for different disease detection.
- Optimization of the electrodes with our samples.
- Cross-reactivity, stability studies for validation of modified electrodes.

#### SEPTEMBER 2017 - TO - SEPTEMBER 2020

#### RESEARCH SCIENTIST, OCT THERAPIES AND RESEARCH PVT LTD

- Responsible for isolation, extraction, expansion and cryopreservation of Wharton jelly's mesenchymal stem cells. And perform experiments on other cell lines like 3T3 and HaCaT.
- Conducted cytotoxicity and potential assay (protein/antioxidant activity estimation, skin irritation assay, etc) on outsourced unknown products. And prepared reports for the same.
- Other experiments like ELISA, Flow cytometry CFU assay, Soft Agar assay were also performed, related to the projects.
- I was also responsible for processing and preservation of Human Cadaver Skin at Masina Hospital Skin Bank, Mumbai

 Preparing SOPs, IQ/OQ/PQ, Project's proposals, and other documents. Update myself with the company related regulatory affairs.

### **Key Achievements:**

- Created file and standardized method for calculating the cell size from microscope image and prepared SOP for the same.
- Appointed in Research & Development department, I gradually helped in preparing scientific documents as well.

Standardized procedure for calculating Specific Gravity using inhouse Pycnometer and prepared SOP for the same.

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### **EDUCATION**

**JUNE 2017** 

# M.Sc in Bioinformatics and biotechnology, INSTITUTE OF BIOINFORMATICS AND APPLIED BIOTECHNOLOGY (IBAB)

[GPA = 6.51 (A\*)]. Learned different computational languages along with different kinds of lab experiments. Worked on a oncology project for 6 months and presented the poster of the same.

**JUNE 2015** 

# B.Sc IN ZOOLOGY, WILSON COLLEGE

[GPA = 5.3 (B\*)]. Studied microbiology, chemistry and zoology over 3 years course. Major in zoology I learned different techniques and concepts related to human body and animals. Also acquired skills in neuronal and gastrointestinal dissection of fishes, squid, cockroaches etc.

# **SKILLS**

Microbiology techniques	Bacterial screening and isolation, media optimization, growth and reproduction studies (Conjugation and transformation studies)				
Molecular biology techniques	Electrophoresis, DNA, RNA, plasmid isolation, PCR, RT PCR, spectrophotometry				
Genetic engineering techniques	Competent cell preparation, transformation, ligation, restriction digestion, cDNA library preparation				
Immunology techniques	ELISA, immunofluorescence, ODD, blotting, chromatography, Western blotting, In cell western, WES				
Cell culture technique	Transfection, cell viability tests like LDH, MTT and CTG assay, maintenance of cell lines (HeLa, CEM, K29),				
Statistical Data Analysis	R Statistical Language: Frequency distributions, significance tests, Hypothesis testing				

Genome analysis	RNA-Seq,	DNA-Seq,	SNP	analysis,	Gene	prediction,	Differential	Gene
	Expression and Alternative Splicing							

#### **PROJECTS**

Title	Duration	Guide
Production and purification of arsenic repressors	Jan - June, 2017	Dr. Bibha Choudhary, IBAB
Evaluation of anticancer properties of methanolic extracts Tinospora cordifolia and Vitex negundo leaves on cervical cancer cells and studying it in mouse as model organism	Jan - June, 2017	Dr. Bibha Choudhary, IBAB

## **ACTIVITES**

- O Completed certified course of "Good Lab Practices" by NIDA Clinical Trials Network
- "Illuminating the Brain" by Prof. Karl Deisseroth at IISc, Bangalore (2016)
- "Understanding Inherited Breast and Ovarian Cancer: From Gene Discovery to Precision Medicine and Public Health" by Prof. Mary-Claire King, IISc, Bangalore (2017)
- "Innovation and Intellectual Property Rights" by Dr. Samir Kulkarni, Mrudula Bele, Dr Shivanand Teli, Dr. Smita Sahu.
- "Stem cells in Health Management" by Dr. Pradeep Mahajan, DR. Chandan Sem, Dr. Mgopinath, Dr. deepa Bhartiya

## **DECLARATION**

I hereby declare that all the information provided above is correct to my knowledge and I bear the responsibility for the reliability of the same.

Place: Mumbai

Date: May 2022 Ishan O. Pande