

# CURRICULUM VITAE

**SHAH TEJAS KIRTIKUMAR**

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## PERSONAL PROFILE

**Nationality:** Indian

**Father's name:** Dr. Kirtikumar P. Shah

**Gender:** Male

**Languages known:** English, German, Hindi, Marathi and Gujrati.

**Hobbies:** Playing Cricket and Badminton, Adventures & Trekking.

**Date of birth:** 16/02/1989

**Mother's name:** Mrs. Anjali K. Shah

## OBJECTIVE

1. To pursue a challenging project in the field of research and excel in it.
2. To learn and gain expertise in skills and techniques required for the research project and to gain an upper hand in the other techniques of area of interest.
3. To serve the organization with my resourceful and innovative qualities and hard work.

## AREA OF INTEREST

1. Molecular and Cell Biology
2. Genetics & Epigenetics
3. Pharmacogenomics
4. Bio-analytical

## EDUCATIONAL QUALIFICATION

Degree	University/Board	Year	% Marks / GPA	Passing Class
MS (Biomedical Sciences)	Symbiosis International University	2011-2013	GPA – 2.97 on 4	First Class with Distinction
B.Tech ( Biotechnology)	Pune University	2007-2011	61.00 %	First Class
H.S.C	Maharashtra Board	2006-2007	61.00 %	First Class
S.S.C	Maharashtra Board	2004-2005	74.60 %	First Class

## COMPUTER SKILLS

1. Microsoft Word
2. Microsoft Excel
3. Microsoft PowerPoint
4. Paint Shop
5. Graphpad PRISM 6
6. SPSS

**RESEARCH WORK DETAILS:-****1. PhD Scholar, [BSRC] KLE University.****PhD Dissertation Work:**

**“To Study the Effect of Micronutrient Supplements During Pregnancy & its Effect In Birth-outcomes”.**

Principal Investigators – Dr. Sanjay Mishra (Duration: September’2014-Ongoing).

Objective of study :-

- To supplement VitB<sub>12</sub> alone (Methylcobalamin, Cyanocobalamin & Injectable Cyanocobalamin) and study their efficacy during pregnancy (trimester patterns) & its effect on birth outcomes.
- To supplement VitB<sub>12</sub> along with Folate to increase ratio of B12:Folate during pregnancy (trimester patterns) and its effect on birth outcome measures.
- Comparison of Gene Expression patterns of the offspring’s to explore genetic makeup.
- Metabolite Profiling (MMA, Methionine,  $\alpha$ -Aminoacidic Acid etc.) in Offspring's.

**2. Senior Research Fellow:**

**Classification of Human Population based on HLA Gene Polymorphism & the concept of Mizaj (Temperament) in Unani Medicine System.** Dept. of AYUSH (Duration: August 2013-Ongoing)

Principal Investigator - Dr.Ghazalla Mulla, Dr.Kalpana Joshi

Objective of study is to assess Human Leukocyte Antigen (HLA) DRB1 alleles & correlate Temperament to homologous HLA DRB1 alleles. The frequency & distribution of DRB1 alleles will be observed in four different temperaments as per Unani system literature claims that specific Mizaj types (DRB1 alleles) show proneness to specific diseases.

**3. Post-Graduation Dissertation Work:**

**“To Study Gestational Diabetes Mellitus (GDM) induced Epigenetic modifications in F1 Generation Offspring’s in IUGR and Wistar Rats models”.**

Principal Investigator - Dr. Kalpana Joshi. (Duration: 2011 - 2013)

Objective was to determine whether an adverse intrauterine environment leads to Epigenetic changes those have functional pathological consequences in Gestational Diabetes Mellitus (GDM) offspring’s (F1 generation) and matched controls.

Responsibilities was to develop and execution of project. Projects aimed for validating various Gestational Diabetic animal models and choose the best which would mimic human conditions.

**4. Graduation Dissertation Work:**

**“To Study the Effect of Ayurvedic Extract on Dyslipidemia induced Rats Model”.**

Principal Investigator - Dr.Kalpana Joshi. (Duration: 2010 - 2011)

Ayurveda represents the traditional medicine system of India. Since mechanistic details of therapy in terms of current biology are not available in Ayurvedic literature, modern scientific studies are necessary to understand its major concepts and procedures.

I was responsible for carrying out in vivo studies in animal model like insulin resistant rat model, Intra Uterine Growth Retarded (IUGR) rat model, Metabolic disorder rat model (high fat diet induced), Gene expression studies using PCR, Real Time PCR.

## 5. To Study Genetic Polymorphisms of FADS INDEL & FOXO3A gene in Asthma patients and their comparison with other ethnic populations.

Principal Investigator – Dr Kalpana Joshi. (Duration: 2013-Ongoing)

Objective is to elucidate role of FADS INDEL gene polymorphisms in understanding the ethnic differences in disease progression and to analyse role in between Asthma & Fatty acid desaturase. FOXO3A gene is related to longevity of a person. Also, genetic polymorphisms on a chromosome have the advantage of providing more useful information on phenotype – genotype links than individual polymorphisms.

### SKILLS ACQUIRED

1. Isolation of Plasma, DNA, PBMC's from Blood Samples
2. Isolation of RNA from tissues.
3. Primer Designing & Standardization.
4. PCR, PCR-RFLP (SNP Detection & Pharmacogenomics Studies).
5. Gene Expression studies using RT-PCR.
6. Pre-Clinical/In-vivo Model Development.
7. Biostatistics Analysis (GraphPad PRISM & SPSS).

### INTERNATIONAL CONFERENCE PRESENTATIONS

1. Oral Presentation entitled as “Effect of Terminalia arjuna on gene expression in high fat diet induced metabolic disorder in male Wistar rat model” [Abstract No. SNPS JU 0162]  
Traditional Medicine and Globalisation-The Future of Ancient Systems of Medicine, 12<sup>th</sup> International Congress of Ethnopharmacology, Kolkata on 17-19<sup>th</sup> Feb, 2012 (Abstract Book P. No. 61).

### REFERENCES

**Dr. Kalpana Joshi (PhD)**  
Professor and HOD (Biotechnology),  
Sinhgad College of Engineering, Pune.  
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**Dr. Sanjay Mishra (PhD)**  
Scientist II,  
Dr. Prabhakar Kore Basic Science  
Research Centre.  
KLE University, Belgaum.  
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I hereby declare that the information furnished above is true to the best of my knowledge.

Place: Pune

Date: 11/10/2014



**Shah Tejas Kirtikumar**