CURRICULUM VITAE

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BIRTH DATE:- 14/06/1997

LANGUAGE KNOWN:- GUJARATI, HINDI, ENGLISH

EDUCATION CREDENTIALS

QUALIFICATION	BOARD / UNIVERSITY	NAME OF THE INSTITUTE	PERCENTAGE/ CGPA	YEAR OF PASSING	REMARKS
M.sc Biotechnology	SPU	B. R. Doshi School of Biosciences	7.25	2019	First class
B.Sc. Biotechnology	SDAU	College of Basic Science and Humanities	7.59	2017	Distinction
H.S.C	Gujarat Secondary & Higher Secondary Education Board	H. H. Patel High School	71.33%	2014	First class
S.S.C	Gujarat Secondary & Higher Secondary Education Board	H.H. Patel High School	81.4%	2012	Distinction

RESEARCH AREAS OF INTEREST

MOLECULAR BIOTECHNOLOGY, CROP IMPROVEMENT TECHNIQUES BASED ON PLANT BIOTECHNOLOGY AND PLANT TISSUE CULTURE

TECHNIQUES KNOWN

- BIOCHEMICAL ANALYSIS AND TECHNIQUES (PH METER, AUTOCLAVE, WEIGHT MACHINE, CENTRIFUGE, SPECTROPHOTOMETER, CHROMATOGRAPHY BASED EXPERIMENT, ELECTROPHORESIS.)
- MOLECULAR BIOLOGY (THERMO CYCLER, DNA AND RNA ISOLATION AND QUANTIFICATION).

PRACTICALLY KNOWN SUBJECTS

MOLECULAR BIOLOGY, IMMUNOLOGY, PLANT TISSUE CULTURE, GENETIC ENGINEERING, ENZYMOLOGY, ENVIRONMENTAL BIOTECHNOLOGY, MICROBIAL GENETICS, IMMUNOLOGY, BIOINFORMATICS, BASIC COMPUTER SKILLS.

DISSERTATION TOPIC

EVALUATION OF DIFFERENT STERILIZATION TREATMENTS FOR ESTABLISHMENT OF ASEPTIC CULTURES FOR IN VITRO PROPAGATION.

ACHIEVEMENTS

1] UNIVERSITY FELLOWSHIP IN SDAU

2] COMPLETED INDUSTRIAL TRAINING AT AMUL DAIRY DURING THE YEAR 2018

DECLARATION

I HERE BY DECLARE THAT THE ABOVE MENTIONED DETAILS ARE TRUE AND CORRECT TO MY UTMOST KNOWLEDGE.

REGARDS

PRAJAPATI PRAGATI

Work Experience:-

During my M.Sc I had taken a 15 days training at **AMUL** dairy (anand and mogar) on **PRODUCTION, QC and QA.** I was selected through the application. In amul I got introduced to production plants, production labs, quality control department, how the quality of product was managed and how the industries get GLP certified, difference between QA and QC. I also got the idea about how SOPs are made and formatted and many other things related to food industrial work related to preclinical lab testing.

Apart from that as a part of my M.sc thesis work, I worked on the topic "**EVALUATION OF DIFFERENT STERILIZATION TREATMENTS FOR ESTABLISHMENT OF ASEPTIC CULTURES FOR IN VITRO PROPAGATION**." I chose this topic as at Microbial contamination is one of the most serious problems in plant tissue culture and various techniques are being employed to reduce it. The nutrient medium used for the cultivation of plant tissue is also a good energy source for microorganisms to grow. These microbes compete with explants for utilising the nutrients present in the medium. Now a days, nanomaterials especially AgNPs are frequently being used as an antimicrobial agent in different fields of sciences including *in vitro* propagation of plants. This study was carried out to assay the antimicrobial activities of different sterilants [$HgCl_2$, Bavistin, AgNPs] and their combinations in controlling microbial contamination in establishment of healthy cultures.

From the present study we can conclude that the silver nanoparticles can be used as the potential sterilizing agent for wide range of explants raising the healthy cultures for micropropagation studies. The combination of silver nanoparticles with other commercial sterilants used in plant tissue culture may probably give the synergistic effect and inhibits the growth of microorganisms. Along with antibiotic properties the silver nanoparticles may also help in *in vitro* growth and development of plant.
So, my thesis work helped me in gaining some skills and experience related to silver nanoparticles which will help me in future.

Why I am interested in this project

As a student I always had interested in biology. I was fascinated towards life science always. I was curious about various life forms, plant biotechnology, environmental biotechnology, nanotechnology, genetics, microbial biotechnology, bioinformatics, enzymology in B.Sc. Recombinant DNA technology, nanotechnology, plant biotechnology fascinated me a lot. I learned and gained in depth knowledge in RDNA technology, DNA sequencing, DNA fingerprinting and their applications, plant tissue culture, and animal tissue culture. I read about a lot of research works going on in biotechnology and nanotechnology during my M.Sc and dissertation work which help in betterment of mankind.

Apart from that I had other compulsory papers like biochemistry, molecular genetics, microbial genetics, bioinstrumentation, bioinformatics, microbial and environmental biotechnology, cell biology and immunology. So I was happy with my decision of taking different areas of biology but also helped me deciding my special paper to pursue my career. Now that interaction of nanotechnology and biology has recently emerged in different applications like nanomedicines, nanobiotechnology, bionanotechnology etc. I would like to use my skills and knowledge in this project to uplift and widespread my experience on different field that will help me in my bright future endeavors.