

OBJECTIVE

Seek to work in an environment that will challenge me further; while allowing me to contribute to the continued growth and success of the organization. Obtain a position that will provide me the ability to apply research experience. Look forward to working with an institute that promotes and helps me to enhance my research work; and provides me with the opportunity to meet and exceed assigned research goals. Research approach coupled with the energy and drive as an individual contributor with supervision or team working environment.

EDUCATION

• CAREER COLLEGE, BHOPAL	2024
Master of science Biotechnology	
• CAREER COLLEGE, BHOPAL	2022
Bachelor of science Biotechnology	
• DIPLOMA IN DAIRY AND AGRICULTURAL PROCESSING	2022
NSQF	
• BETHEL HIGHER SECONDARY SCHOOL	2019
Higher Secondary	
• ST. JOSEPH SCHOOL	2017
High School	

LAB/ RESEARCH EQUIPMENTS

• Worked with several types of hazardous chemicals and became experienced in handling lab equipment such as glassware and field equipment. Assisted with research projects: performed library research, interpreted experimental test data, sterilized lab equipment. PCR, RT-PCR, SDS-PAGE, blotting techniques. Cell and tissue culture, preparation of media, inoculation, culture transfer, maintenance and purification. Electrophoresis, chromatography, microscopy, immunohistology , extraction of RNA, DNA, Protein analysis and quantification, pH meter, incubator, centrifuge, laminar airflow. Staining techniques, Antibody analysis through ELISA test, Blood group determination, CBC. Sample preparation for TEM, SEM. Spectroscopy, cytometry analysis, Biosensor fabrications, nanomaterial synthesis, electrochemical analysis, immunostaining, atomic force microscopy, TFM, Rheology, FACS, FTIR.

PROJECTS

• **People's biodiversity register (PBR) by MADHYA PRADESH BIODIVERSITY BOARD**
In the collaboration of Biodiversity Board of Madhya Pradesh. Me and my team prepared a People's Biodiversity Register for Bhopal district which included all the information regarding the biodiversity of area. This project was made possible under the guidance of Mrs Anjali choudhary and Mrs Nidhi tripathi, my project investigators. I worked on the post of project assistant for one year with the government of Bhopal for the same.This project was from June 2021 - June 2022

INTERNSHIP

• IIT Bombay, IRCC Intern- Dissertation project on - "ATCN4 and MMP9 crosstalk - unravelling their synergetic impact on Triple negative breast cancer cell line migration in viscoelastic matrix"
· Culturing MDA-MB-231 TNBC cells on PAA gels with varying stiffness.
· Assessing CSC properties, including self-renewal, sphere formation, migration, and spread area.
· Examining ACTN4 expression levels and MMP9 activity in CSC-like spheroids

• CSIR - AMPRI, BHOPAL "SKILL DEVELOPMENT INTERNSHIP PROGRAM ON ANALYTICAL AND BIO-ANALYTICAL CHEMISTRY"
1) Nanomaterials based electrochemical biosensors
2) Morphological investigation of materials used in biomedical applications
3) Shape memory polymer based antimicrobial and suture applications
4) Advanced antimicrobial materials and coatings
5) Carbon nanofibers-based electrochemical sensors for simultaneous detection of antibiotics, heavy metals and pesticides

SKILLS

- Eagerness to learn
- Adaptability
- Team work
- Leadership
- Data Handling
- Work ethics
- Analytical skills
- Problem solving
- Project management
- Time management

EXPERIENCE

• Madhya Pradesh Biodiversity Board Project Assistant	June 2021 - June 2022
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Worked as field data collector for people's biodiversity register regarding the biodiversity of Bhopal city. Managed and analyzed the data and compiled it in a form of book record for the government of Madhya Pradesh.

- **Edushala edtech company**

Home tutor and public speaking expert

Helped students to understand the basic concept of their curriculum and build their confidence and core knowledge.

Assisted students of younger age for public speaking skills.

CERTIFICATES

- Certificate of Best Student from Microbiologist Society of India ,2022
- Coursera certification in Bioinformatics methods -1 from University of Toronto on September 21, 2020
- Coursera certification in Bioinformatics methods -2 from University of Toronto on September 27, 2020
- Coursera certification in DNA decode from McMaster University September 28, 2020
- Coursera certification in Drug Discovery from University of California San Diego on September 29, 2020
- Coursera certification in Fundamentals of immunology - innate immunity and functions of b-cells from Rice University on September 22, 2020
- Coursera certification in The Science of stem cell from American museum of natural history on September 26, 2020
- Coursera certification in self awareness and leadership from Rice University on 28 September, 2020
- Coursera certification in Industrial biotechnology from University of Manchester on September 30, 2020
- Certificate from training and placement cell on completion of comprehensive training program on November, 2019
- National webinar Certificate in insight of e-yuva scheme of BIRAC by E-YUVA centers in association with BIRAC on March 25, 2022
- Certificate of interpersonal skills to unlock your success on 24 August, 2020
- Certificate of National ideathon 1.0 - Mind to Market an initiative towards aatm nirbhar Bharat on 28 June, 2021
- Certificate in entrepreneurship and innovation as career opportunities on 11 December, 2021
- Coursera certificate in mind health from University of Toronto on October 13, 2020
- Coursera certificate in social work and practice from University of Michigan on October 7, 2020
- Coursera certificate in human physiology from Duke University on October 6, 2020
- Coursera certificate in epidemics and pandemic from University of Pittsburgh on October 3, 2020
- Coursera certificate in behavioral finance from Duke University on September 30, 2020.
- Coursera certificate in guidance to keep new born safe from University of Colorado System on September 28, 2020
- Coursera certificate in supporting parents of new born from University of Colorado System on September 28, 2020
- Coursera certificate in preventive healthcare of new born from University of Colorado System on September 28, 2020
- Coursera certificate in psychological first aid from John Hopkins University on September 28, 2020
- Coursera certificate in cancer prevention from University of Virginia on 28 September, 2020
- Coursera certificate in dinosaur paleontology that is Dino: 101 from University of Alberta on September 27, 2020
- Coursera certificate in extra vesicular health disease from University of California on September 27, 2020
- Coursera certificate on new born assessment from University of Colorado System on September 27, 2020
- Coursera certificate in introduction to psychology from Yale University on September 26, 2020
- Coursera certificate in addicted brain from Emory University on September 26, 2020
- Coursera certificate in Fundamentals of immunology - T-cell and signalling on 3rd October, 2020
- Certificate of all rounder performance in Higher secondary School in 2019

WEBINAR/ WORKSHOPS AND TRAININGS

- **TRAINING AT CENTRE FOR MOLECULAR BIOLOGY AND RESEARCH**
Mainly worked on RNA extraction, cDNA preparation, PCR, RT-PCR handling, Real time data analysis on ALIGENT software, SDS-PAGE, Bioinformatics tools handling, etc. on 13 May, 2021
- **FERMENTATION TECHNOLOGY AT CAREER COLLEGE**
It was a short term training programme on the topic Fermentation Technology under guidance of Ms. Tanuja Murab on 23 February, 2022 to 2 March, 2022. I dealt with different methods of fermentation. Focused mainly on wine fermentation and bread fermentation.
- **WEBINAR ON PATENTING: A LEGAL PROCESS OF FILING A PATENT IN INDIA**
Department of Biotechnology and Biochemistry organized a Webinar on "Patenting: A Legal Process of Filing a Patent in India" by Respected Resource Person Miss. Pooja Kumar (Founder, Director of Innove Intellects LLP) conducted on 15 March, 2021
- **NATIONAL WEBINAR CUM WORKSHOP ON WORLD'S FOOD DAY**
I studied and practiced safe food for healthy tomorrow on world food safety day on 30 October, 2021.
- **NEXT - GENERATION SEQUENCING**
Department of Biotechnology and Biochemistry conducted a beneficial Workshop on "Next Generation Sequencing" by admired Resource Person Dr. Rahul Solanki Premas Lifesciences on 6 February, 2021
- **SEED BALLS PREPARATION**
At career college, I learnt to prepare seed balls and distributed it and supported in a plantation drive on 19 February, 2021 as being a active member of NSS and student member of green cluster cell at Bhopal.
- **FOLDSCOPE**
National seminar cum workshop related on foldscope exploring the folds of miniature world, sponsored by DBT government of India on 16 September, 2019.
- **SAMBHAVNA TRUST, BHOPAL**
10 days training where I studied theoretical and practical knowledge of organic farming of medicinal plants on 12 December, 2021
- **OPPORTUNITIES IN BIOLOGICAL SCIENCES**
National webinar Certificate on Recent research opportunities and challenges in Biological Sciences on 17 May, 2021
- **BIO-ENTREPRENEURSHIP TRAINING**
National webinar cum Workshop on bio-entrepreneurship Training research to innovation organised by department of biotechnology in association with Biotechnology Industry Research Assistance Council (BIRAC) empowering youth for understanding value added innovative research and research innovative incubation design laboratories on 14 March, 2022
- **ENTREPRENEURSHIP AND INNOVATION**
One day workshop on entrepreneurship and innovation as career opportunity on 11 December, 2021
- **WORLD'S DIABETES DAY**
Online webinar and quiz competition on ACCESS TO DIABETES CARE- if not now, when? on the world's diabetes day on 14 November, 2021

- **AWARENESS OF HEPATITIS**

National webinar on awareness of hepatitis on world's hepatitis day and quiz competition on 28 July, 2020.

- **BOOST YOUR IMMUNITY**

Webinar on boost your immunity against pandemic on 5 September, 2020

- **WORLD'S LITERACY DAY**

National online webinar on world's literacy day on 8 September, 2020

- **IMMUNOTHERAPY AND IMMUNOMODULATION**

Webinar on COVID -19 nutrition in relation to immunotherapy and immunomodulation on 12 May, 2020

- **GREEN CHEMICAL TECHNOLOGY**

Webinar on green Chemical Technology organised by department of chemistry career college Bhopal on 3 May, 2020

- **NATIONAL SCIENCE DAY**

National webinar on National science day on role of Science and technologies and nutrition for sustainable future on 28 February, 2022

CO-CURRICULAR ACTIVITIES

- Inter district yuva utsav folk dance competition 2022

Certificate of utkarsh 2021 folk group dance competition

Certificate in poster making competition from microbiologist society of india on microbiome food festival on 24 January, 2020.

Certificate of jan aandolan and appropriate behaviour in covid19 on 10 October, 2020

Certificate of quiz on world environment day on 5 June , 2020

Certificate of patriotic song competition on 15 August, 2020

Certificate of quiz competition on international literacy day on 8 September, 2020

Certificate on mothers day poem writing competition by women empowerment cell 10 May, 2022

Certificate of quiz competition on hepatitis awareness on 28 July, 2020

Certificate on national science day by nutrition society of india 28 February, 2022

Certificate in quiz competition on world environment day by sant hirdaram college on 5 June , 2020

Certificate in quiz competition on world diabetes day on 14 November, 2021

Certificate in quiz competition on human right day on 10 December, 2021

Utkarsh folk dance competition in group certificate of first position in 2019

OTHER ACHIEVEMENTS

- Senior editor in BIONEX magazine at department of Biotechnology for 2022

Student representative of personality and development cell at Career College, Bhopal

Active Member of women empowerment cell at Career college, Bhopal

Student member of institution innovation council at Career college, Bhopal

Student head in green cluster cell 2019-2020 at Career college, Bhopal

Student member of institution innovation council.

Student member at Microbiologist's society of India

Worked with Madhya Pradesh biodiversity board for PBR development of Bhopal City under designation of project assistant.

Secured Rank as university topper of Barkatullah University, Bhopal in 2022

REFERENCE

- **Department of Biotechnology**

Bhopal

Career College

Dr. Anjali Choudhary

Biotechbiochem2002@gmail.com

Dr. Mohamad Ashiq

CSIR- AMPRI

modhashiq@gmail.com

Dr. Nidhi Tripathi

biochemistry@careercollegeindia@gmail.com