Yumna Zahid

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Objective:

Seeking a full time position that will lead to opportunities in biotechnology, healthcare and pharmaceutical industry

Education:

May 2016 — **Masters in Biology**
TEXAS A&M UNIVERSITY, College Station, Texas
Cell and Molecular Biology
Immunology
Relevant Courses: Entrepreneurial issues in Biomedical Engineering, Biotechnology Writing, Statistics

May 2013 — **Bachelors in Biology**
LAHORE UNIVERSITY OF MANAGEMENT SCIENCES (LUMS), Lahore, PAKISTAN
Cell and Molecular Biology
Stem Cell Biology

Relevant Experience:

August 2014 – To Date — **Project Assistant, Texas A&M University**
DETERMINING THE ROLE OF LUNG EPITHELIAL CELLS IN WOUNG HEALING AND FIBROSIS

- Worked with a team of 3 senior researchers to investigate various ways in which human lung epithelial cells respond to factors that inhibit fibrosis
- Demonstrated that lung epithelial cells actively partake in the process of wound healing by interacting with immune cells and fibroblasts

August 2014- To Date — **Project Assistant, Texas A&M University**
IDENTIFICATION OF FACTORS THAT REGULATE CELL DENSITY IN EUKARYOTES

- Assisted a team of 2 researchers in using *Dictyostelium Discoideum* as a model organism to identify components of signal transduction pathway regulating cell density

July 2013 - June 2014 — **Project Assistant, LUMS**
PREPARATION OF CONDITIONED MEDIA FROM IMMORTALIZED MOUSE EMBRYONIC FIBROBLASTS TO SUPPORT TROPHOBLAST STEM CELL CULTURE

- Derived immortalized primary mouse embryonic fibroblasts
- Prepared conditioned media from them to show they support culture of trophoblast stem cells

June 2012 – May 2013 — **Undergraduate Thesis, LUMS**
GENERATION OF HUMAN INDUCED PLURIPOTENT STEM CELLS FROM PATIENT BIOPSIES – Grade: A

- Collaborated with local hospitals to obtain patient biopsies for derivation of primary fibroblasts
- Induced pluripotency in human adult fibroblasts to use it for personalized regenerative medicine

Summer 2012 — **Internship, LUMS**
PREDICTION OF MODIFIED HISTONE TAIL PEPTIDE BINDING TO HISTONE BINDING PROTEINS

- Project aimed at using empirical docking and scoring approaches to predict binding of histone tail peptides, containing modified lysines and flanking residues to histone-binding proteins
- Had an opportunity to learn computational biology methods

Work Experience:

Research Assistant

- Department of Biology, Texas A&M University (2014 – To Date)
- Department of Biology, LUMS (2013-2014)

Teaching Assistant

- Introductory Biology lab, Texas A&M University (2014 - To Date)
- Introduction to Biology, LUMS (2012)

Relevant skills:

- Protein Assays
- Proteomics
- PCR
- Cell Culture
- Microscopy
- ELISA
- Western Blot
- Immunohistochemistry
- Immunofluorescence
- Flow Cytometry
- Bioinformatics
- Gel Electrophoresis
- Python (Basic)
- Molecular Cloning
- Pipetting
- Histological staining
- Plasmid preparation
- Genomics
- Isolation of PBMC and other white blood cells from blood
- Maintenance of digital records of protocols and data
- Derivation of primary cells (adult fibroblasts) from biopsy samples

Work Authorization: Eligible to work in US without sponsorship for 29 months on OPT