Yumna Zahid

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Objective

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

Key Skills

- Cell culture
- Proteomics
- Genomics
- Protein assays
- Immunohistochemistry
- Immunoflurorescence
- Western Blot
- ELISA
- Gel Electrophoresis
- Flow Cytometry
- Microscopy
- Pipetting
- Transformations
- Transfections
- PCR
- Molecular cloning
- Histological staining
- Bioinformatics
- Python (basic)
- MATLAB (basic)
- Microsoft Office
- Isolation of peripheral blood mononuclear cells (PBMC) and other white blood cells from blood
- Derivation of primary cells (adult fibroblasts) from biopsy samples
- Maintenance of digital records of protocols and data

Education

Master of Science : **Biology**, 2016
Texas A&M University (TAMU) – College Station, TX, USA

Bachelor of Science : **Biology**, 2013
Lahore University of Management Sciences (LUMS) – Lahore, Punjab, Pakistan
BS thesis title: "Conditioned medium prepared from immortalized mouse embryonic fibroblasts supports culture of trophoblast stem (TS) cells."

Work Experience

Research Assistant
-Department of Biology, TAMU (2014 – To Date)
-Department of Biology, LUMS (2013-2014)

Teaching Assistant
-Introductory Biology lab, TAMU (2014 - To Date)
-Introduction to Biology, LUMS (2012)

Publications

August 2014 - To Date - Research Assistant, TAMU:
DETERMINING THE ROLE OF LUNG EPITHELIAL CELLS IN WOUND HEALING AND FIBROSIS
•Determined various ways in which human lung epithelial cells respond to factors that inhibit fibrosis
•Showed that lung epithelial cells actively partake in the process of wound healing by interacting with immune cells and fibroblasts

August 2014 - To Date - Research Assistant, TAMU:
IDENTIFICATION OF FACTORS THAT REGULATE CELL DENSITY IN EUKARYOTES
•Used Dictyostelium discoideum as a model organism to identify components of signal transduction pathway regulating cell density
•Applying the findings to higher eukaryotes will provide great insight into cell cycle regulation

July 2013 - June 2014 - Research Assistant, LUMS:
PREPARATION OF CONDITONED 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 PATEINT BIOPSIES– Grade: A
•Obtained patient biopsies, derived primary fibroblasts from them
•Induced pluripotency in human adult fibroblasts to use it for personalized regenerative medicine

Summer 2011 : 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