

UPASANA TANVIR

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Leverage analytical, scientific, & technical background in a challenging yet stimulating biology research environment

EXPERIENCE

SEPTEMBER 2018 – DECEMBER 2018

RESEARCH ASSISTANT, MOLECULAR BIOLOGY LAB OF DR. RICHARD BECKWITT AT FRAMINGHAM STATE UNIVERSITY

Researched genetic variation of white-tailed deer in New England

Identified geographical origin of deer based on mitochondrial DNA sequencing

Extracted DNA from muscle tissue

Ran Gel Electrophoresis

Purified the PCR product

Analyzed the sequenced DNA

Performed experimental data analysis to reach conclusions

January 2019-May 2019

Created a human leukemia cell line that expressed GFP and glowed green

Visualized GFP expression in Bacteria

Subclone the GFP gene into the expression vector

Transformed bacteria with newly created GFP-expressing plasmid

Isolated plasmids from bacteria

Delivered the plasmid to K562 cells.

EDUCATION

DEC 2019

WEB DEVELOPMENT CERTIFICATION, FRAMINGHAM STATE UNIVERSITY

Learned the fundamentals of coding.

Developed Amazon Alexa Skill.

Used in-demand technologies like JavaScript, Node.js, SQL, APIs.

MAY 2019

B.S. BIOTECHNOLOGY, FRAMINGHAM STATE UNIVERSITY

Microbiology, Cell Biology, Genetics, Molecular Biology

Organic Chemistry, Biochemistry, Organic Evolution

Computer Science with Java, Calculus, Statistics, Discrete Math

SKILLS

- Molecular Cloning
- Bacterial Cell Culture
- Enzyme Kinetics
- DNA Manipulation
- Western Blotting
- Protein Assay
- Java & Javascript
- MEGA
- Microsoft Office
- Multilingual: Bengali, Hindi, Nepali