

Kien (Kyle) Ngo

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EDUCATION

Dickinson College, Carlisle, PA

Major: Biochemistry & Molecular Biology (B.S.)

GPA: 3.62 / 4.00 – Expected May 15, 2024

Honors: Dean's List, 1884 Scholarship for Academic Excellence

Related Courses: Introductory & Organic Chemistry, Introductory Biology, Genetics, Cell Biology, Biochemistry, Metabolism, Molecular Pathophysiology, Precision Medicine, Data Science, Computer Science

RESEARCH

Autoinflammation Research Assistant, Dickinson College, Carlisle, PA

Research Assistant for Dr. Tiffany Frey – January 2023 – Present

Explored the relationship between mevalonate pathway products and the inflammatory signaling pathway in a cellular model of Mevalonate Kinase Deficiency, an autoinflammatory disease. Performed cell culture and viability assays to identify the optimal dosage for Lovastatin to inhibit the mevalonate pathway and Lipopolysaccharide to induce inflammation. Conducted gene expression assays to quantify inflammation levels.

Pharmacokinetics Research Assistant, University of Southern California, Los Angeles, CA

Research Assistant for Dr. Hovik Gukasyan – July 2023 – Present

Utilized computer software to redesign Sorafenib, enhancing its pharmacokinetic properties, and potentially improving its efficacy for kidney cancer treatment. Executed thorough examinations of pharmacokinetics data to assess the correlation between the drug's binding infinities and IC_{50} values.

Epigenetics Research Assistant, Dickinson College, Carlisle, PA

Research Assistant for Dr. Thomas Arnold, Dr. Dana Somers, Dr. David Kushner – Summer 2022

Conducted experiments to investigate the epigenetic effects of sulforaphane on garden worms, contributing to the understanding of epigenetic regulation. Collaborated with the research team, utilized R-Programming Language to analyze experimental data and build upon previously collected data from prior experiments, enhancing the depth and breadth of research insights.

Drug Repurposing Bioentrepreneurship, Keck Graduate Institute, Los Angeles, CA

Intern with Dr. Steven Casper – Summer 2023

Assessed the potential of Maraviroc and Triclosan as treatment options for Alzheimer's disease and stage 2 prostate cancer, leveraging existing preclinical data. Designed a clinical trial based on the research findings. Conducted a comprehensive analysis to calculate the likelihood of success and probable long-term profitability. Presented the clinical trial proposal and business analysis to a panel of scientific and business experts, showcasing the feasibility of the repurposing drugs.

PRESENTATION

Biology Research Symposium, Dickinson College, Carlisle, PA

Fall 2021

Summer Research Symposium, Dickinson College, Carlisle, PA

Summer 2022

Science Symposium, Dickinson College, Carlisle, PA

Spring 2023

Drug Repurposing Proposal, Keck Graduate Institute, Los Angeles, CA

Summer 2023

WORK EXPERIENCE

Teaching Assistant for Genetics Class

Dickinson College, Carlisle, PA – August 2023 – Present

Prepared necessary equipment and reagents for laboratory experiments, ensuring a smooth learning experience for students. Collaborated closely with the professor to support lecture delivery, including preparing materials and providing additional explanations to students when needed. Offered dedicated office hours to assist students with course materials and homework assignments, fostering a positive learning environment.

Quantitative & Reasoning Tutor

Dickinson College, Carlisle, PA – August 2023 – Present

Provided individualized tutoring sessions to students in the subjects of Biology, Chemistry, and Environmental Science, helping them improve their understanding and performance. Maintained open lines of communication with professors by consistently preparing detailed reports after each tutoring session, documenting student progress, and suggesting strategies for improvement.

Library Service Consultant

Dickinson College, Carlisle, PA – 2023 – 2024 Academic Year

Provided clear, meaningful, and efficient assistance to diverse groups of people. Understood library classification structure, followed proper shelving techniques, & organized collections within various library areas. Utilized specialized library software to process library collection, guide visitors with using library hardware and software in building

College Fund Donation Caller

Dickinson College, Carlisle, PA - September 2021 – Present

Successfully contacted over 2,000 alumni and parents, effectively conveying the importance of supporting the college's mission through fiscal gifts. Played a pivotal role in raising over \$100,000 in donations, contributing to critical areas of need within the college, including financial aid, housing, and dining services.

SKILLS

Lab Skills:

PCR, DNA Extraction, Gel Electrophoresis, Immunofluorescence Microscopy, Protein Purification, Cell Culture

Computer:

R-Program, Python, Microsoft Excel, PowerPoint, Adobe Photoshop, Illustrator, Enzyme-Substrate Docking

Language:

English & Vietnamese (Native); Japanese (Advanced); Spanish & French (Upper-Intermediate)