

U.S. Army Institute of Surgical Research

2021 Virtual Summer Undergrad Research Program - Request for Intern ISR-BCRD-01

Department: Blood Coagulation Research (BCRD)

What are your expectations for the student?

Our objective is to determine if NAD/NADH ratios, all mitochondrial intermediates in platelets change after trauma.

How would the student benefit from working on your project?

Students will observe Isolating platelets from traumatized rats, measuring NAD, NADH and all mitochondrial intermediates.

Brief project description (please list the skills and techniques they will learn):

Trauma leads to platelet dysfunction, and a fall in ATP. A fall in ATP is indicative of mitochondrial dysfunction. We hypothesize that trauma leads to mitochondrial dysfunction. We will take platelets from traumatized rats to determine if mitochondrial intermediates change compared to controls.

Would you be interested in advising the intern for writing an abstract for a conference proceedings publication (example at the link below)? Yes, always.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5773900/>