

## Undergraduate Category

### Poster Title:

ROR1 Biomarker for Chronic Lymphocytic Leukemia (CLL)

Nicholas Lewis

University of California, San Diego

ISPE San Diego Chapter

### Abstract

Chronic Lymphocytic Leukemia (CLL) is a type of blood cancer with little to no early symptoms, leaving scientists searching for an effective method of early detection. ROR1 is an attractive biomarker for CLL thanks to its relationship with various cancers and the main CLL activation pathway. Exosomes have become very appealing in the medical community as a diagnostic tool due to their presence in various eukaryotic fluids and the array of contents protected by their lipid bilayer. In this project, scientists from the Heller group establish a novel technique for exosomal isolation and detection of ROR1 in blood plasma using a Dielectrophoretic microfluidic chip.