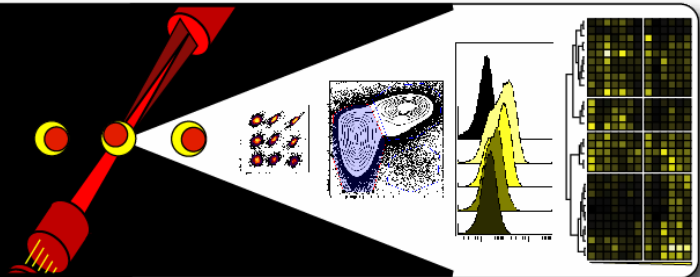




NSI Guest Lecture

Lymphoma Signaling Profiles



Title:

Lymphoma signaling profiles: subsets of cancer B cells with abnormal signaling are detected by flow cytometry in follicular lymphoma patients with poor clinical outcomes

Who:

Jonathan M. Irish, Ph.D.
Stanford University School of Medicine

When:

Friday, July 4th @ 9:30

Where:

Seminar room A3.3067

Abstract

Signal transduction plays a key role in cell survival, and changes in signaling might be expected to arise in cancer cell populations during tumor progression. We previously used single cell signaling profiles to identify differences in signaling mechanism between follicular lymphoma B cells and infiltrating non-malignant B cells within primary human lymphoma tumor samples obtained at diagnosis. We have since extended this approach and used barcoded phospho-specific flow cytometry to measure hundreds of signaling events in individual lymphoma B cells and tumor-infiltrating T cells. Presence of a B cell subset with abnormal B cell receptor signaling identified a group of patients with low overall survival. Taken together, patterns of signaling in lymphoma B and infiltrating T cells further stratified patients into three groups with significantly different overall survival and initial chemotherapy response. These results identify specific signaling features that could be used to track lymphoma cell subsets and monitor immune system activity during therapy. These results further support our hypothesis that altered signaling enables the emergence of therapy insensitive cancer cell subsets.

Refreshments will be served
Welcome all!