

# Research In Progress Seminar

Tuesday, May 16, 2017 3:30PM

Location: CCBS Conference Room, 2622 Biological Sciences 3

## Speaker:

Leo Lagunes, Developmental and Cell Biology (Lee Bardwell and German Enciso Labs)

#### **Talk Title:**

Investigation of Multisite Protein Phosphorylation

#### **Abstract:**

phosphorylation Protein important mechanism that regulates activation. Phosphorylation protein can affect a protein's enzymatic location, stability, activity, interactions with other proteins and Interestingly, phosphorylated proteins are multisite proteins, meaning that they are phosphorylated on more than one However. why multisite phosphorylation in so widely used is not well understood. Furthermore, determining which particular sites or combination of sites downstream regulatory effects is a challenging task. This talk will focus on a combination of mathematical modeling and experimental analysis to better understand how multisite affects phosphorylation protein activation. We will discuss mathematical model, assuming variable phosphorylation dynamics at and experimental measurements of the kinetic parameters that determine the rate of phosphorylation and activation of cJun (a transcription factor in the JNK pathway).

### **Ouestions:**

Please contact Naomi Carreon at: <a href="mailto:ncarreon@uci.edu">ncarreon@uci.edu</a> or Kerrigan Blake at: <a href="mailto:kerrigab@uci.edu">kerrigab@uci.edu</a>