Dear Faculty, IGERT Fellows, IGERT Associates and Students,

You are cordially invited to attend a Seminar presented by Stephanie Coffman. Please plan to attend.

Stephanie Coffman

IGERT Fellow

Date: Friday, April 25, 2014
Location: Bourns A265
Time: 11:00am

An image analysis toolbox for high-throughput *C. elegans* assays

Abstract:

Large-scale RNA interference and chemical mutagenesis screens are common in the animal model, *C. elegans*. Due to the short life cycle, these screens can be carried out quickly and efficiently; however, the process is slowed down significantly by manual analysis of phenotypes, a process that is also plagued by subjectivity. We will discuss advancements being made to incorporate image analysis into large scale screens in order to objectify and streamline the process. In particular, we will consider an image analysis toolbox developed to analyze *C. elegans* assays (Wahlby et al. 2012). We will also consider future directions that could enable more widespread use of these recent advancements.

Reference:

Wahlby, C., Kamentsky, L., Liu, Z., Riklin-Raviv, T., Conery, A., O'Rourke, A., Sokolnicki, K., Visvikis, O., Ljosa, V., Irazoqui, J., Golland, P., Ruvkun, G., Ausubel, F., Carpenter, A. (2012). An image analysis toolbox for high-throughput *C. elegans assays*. *Nature Methods, 9*, 714-716.

UCR Center for Research in Intelligent Systems

NSF

VIDEO BIOINFORMATICS
UNIVERSITY OF CALIFORNIA, RIVERSIDE