**PlantSEED Workshop**

**Location:** University of Florida, Gainesville, Fl

**Date:** 17-18 August, 2017

**Website:** http://140.221.65.31

Presentations

Hands-on

**Day 1:** **Flux Balance Analysis in PlantSEED**

Session A: Overview (9am):

1. Introductions

(30 minutes)

1. Introduction to PlantSEED

(15-30 minutes)

Coffee Break (10am)

Session B: Plastidial Sandbox Model

1. Overview of sandbox model

(30 minutes)

1. Exploration and simulation of sandbox model

(60 minutes)

Lunch (Group Photo; 12pm)

Session C: Flux Balance Analysis (1pm):

1. Overview of Flux Balance Analysis (FBA)

(45 minutes)

1. Exploration of FBA and transcript-constrained FBA (tFBA)

(45 minutes)

Break (2:30pm)

Session D: Transcript-constrained FBA (3pm):

1. Integration of Transcript data with FBA

(45 minutes)

1. Uploading, Editing, and Exploring tFBA results

(45 minutes)

Finish (4pm)

**Day 2: Annotation and Reconstruction in PlantSEED**

Session E: Overview and Q&A (9am):

1. Answer questions about FBA and tackle any problems

(30 minutes)

1. Participation goals

(30 minutes)

Coffee Break (10am)

Session F: Annotation and Metabolic Reconstruction (10:30am):

1. Tour of PlantSEED Subsystems, Protein Families, and K-mers

(40 minutes)

1. Upload and Edit Annotation, Reconstruct Model

(50 minutes)

Lunch (12pm)

Session G: Future of PlantSEED and KBase (1pm)

1. Future Plans for PlantSEED and Tour of KBase Narrative

(90 minutes)