

## Fall 2014 PMCB JOURNAL COLLOQUIUM TOPICS

### 1. PCB 7922 Professional Development in Plant Biology Section 199A

This class will develop critical thinking, writing and presentation skills necessary to evaluate, design, and propose research projects related to Plant Molecular and Cellular Biology. Students will read and discuss critical and creative thinking in science, writing grant proposals, and developing effective oral communication skills. Students will also have writing and presentation assignments to help develop their professional skills.

In this course students will learn how to:

- critically read, listen and write
- separate good information from bad information
- analyze arguments and construct well-designed arguments
- enhance presentation skills

**INSTRUCTORS:** Kevin Folta, Matias Kirst, Mark Settles, Thomas Colquhoun

**COURSE COORDINATOR:** Eliana Kampf

**REGULAR MEETING TIME:** Wednesdays, 3:00- 4:00 p.m., 2318 Fifield Hall

**CLASS SIZE LIMIT:** 14 students

**REGISTRATION:** Departmentally controlled, request registration with [elianak@ufl.edu](mailto:elianak@ufl.edu)

**CLASS SYLLABUS:** [click here](#)

### 2. PCB7922 New Frontiers in Plant Biotechnology Section 199E

This journal colloquium will explore some of the exciting concepts in modern molecular biology that have been recently implicated in the development of novel cutting-edge genetic tools for use in the field of plant biotechnology. Special emphasis will be given to small non-coding RNAs and their role in plant immunity along with RNA interference (RNAi)-based approaches in plant bioengineering, novel systems for targeted gene editing (such as CRISPR/Cas9 and others) and their practical applications.

**INSTRUCTORS:** Svetlana Folimonova

**REGULAR MEETING TIME:** Thursdays, 2:00-3:00 p.m., 2316 Fifield Hall

**CLASS SIZE LIMIT:** 14 students

**REGISTRATION:** Departmentally controlled, request registration with [elianak@ufl.edu](mailto:elianak@ufl.edu)

**CLASS SYLLABUS:** [click here](#)

### 3. PCB 7922 Reactive Oxygen Species in Programmed Cell Death, Plant Development and Stress

#### Section 1992

Plant processes relating to biotic and abiotic stress and several aspects of plant development are regulated by reactive oxygen species signaling. Reactive oxygen species have been recognized in programmed cell death and specific plant developmental processes. We will review recent studies on reactive oxygen species signaling and programmed cell death. Specific emphasis will be on how these processes relate to plant development and plant stress adaptation.

**INSTRUCTOR:** Bala Rathinasabapathi

**REGULAR MEETING TIME:** Tuesdays, 12:50 to 1:40 p.m. (6<sup>th</sup> period), 1302 Fifield Hall

**CLASS SIZE LIMIT:** 12 students

**REGISTRATION:** Departmentally controlled, request registration with [elianak@ufl.edu](mailto:elianak@ufl.edu)

**CLASS SYLLABUS:** [click here](#)