

**Program:** Physiology

**Course Name:** Experimental Physiology

**Course Number:** 509

**Course Director:** Satya P. Kunapuli, Ph.D. Room 220 MRB. Tel. 2-4615 email. [spk@temple.edu](mailto:spk@temple.edu)

**Credits:** 2

**Semester:** Spring, every year

**Times:** Meets once weekly for 2 hours

**Location:** MRB 215

**Prerequisites:** None

**Description:** The objective of this course is to make familiar with on going research work in various laboratories in the department. Students will be learning the important criteria for choosing a laboratory for their project work through interactive discussion. Following this, they will attend the research presentations by various members of the faculty in the department and choose three laboratories for rotations of 4 weeks each. During rotation the students will be familiarized with various research projects and experimental techniques in the laboratory. At the end of the three rotations students will choose a laboratory for dissertation work. The Ph.D. students are advised to complete all the three rotations even if they decide on the laboratory for the dissertation work after the first or second rotation. However, they are expected to do at least two rotations before choosing their lab. The Masters Students need to complete only one rotation after which they may continue in that lab or do subsequent rotations until they find the laboratory for dissertation. In addition the students will also attend the journal club and research presentations in the Department.

Students are expected to participate in class by contributing to discussion. The students are expected to meet the minimum criteria set forth by the faculty member during rotation, including attendance, demonstration of skills, and enthusiasm to learn. There are no tests for this course. The Grade in this course will be based on the successful completion of the rotations and attendance at the research and journal club presentations. Two timely reports are due from students. First report is due 2 weeks after the final presentation of the faculty members, which should list the three labs the student has chosen to rotate and the rationale. The second report is due on or before August 30, which should list the lab the student wishes to join for the dissertation work and the rationale.

**Textbook & Readings:** There is no prescribed text book for this course. The student is expected to take notes during the presentation of the faculty member. The students are expected to learn to research the publications and grant support of the investigators using the strategies presented in the first class.

Office Hours – The Course Director is available during the normal work day hours. Other instructors are available on the same terms.

Participating faculty members:  
Introduction

1. Michael Autieri, Ph.D.
2. Raul A. Delacadena M. D.
3. Marla R. Wolfson, Ph.D.
4. Ronald F. Tuma, Ph.D.
5. Steven R. Houser, Ph.D.
6. Satoru Eguchi, Ph.D.
7. Doina Ganea, Ph.D
8. Satya P. Kunapuli, Ph.D.

First Rotation: Fall 2005 (between classes Sep-Dec 2005)

Second Rotation: June 5- June 30, 2006

Third Rotation: July 3- July 29, 2006.

Make-up Rotation: July 31- August 25, 2006.