

# MasterS Connection

Jefferson College of Graduate Studies MS Student eNEWS

## Spring and Summer MS Thesis Presentations



Donna Brennan



Joshua Walker



Kimberly Roland



Stephen Soltys

### Biomedical Sciences

**Daryl Barkhouse:** The role of IFN- $\gamma$  receptor signaling in attenuated rabies virus clearance

**Donna Brennan:** Adhesion molecules as mediators of cell signaling—proteolytic processing of desmoglein 2 in cell growth and survival.

**Christopher Lechnou:** Capillary electrophoresis used as an alternative to HPLC for pharmaceutical analysis of antifungal agents.

**Vanessa Mitchell:** Analysis of FGF23, GALNT3, SAMD9, and KL genes in scleroderma patients with cutaneous calcinosis.

**Paulina Oca:** TGF $\beta$  regulation of ANKH (*Progressive Ankylosis*) expression in ATDC5 cells.

**Joshua Walker:** Characterization of K-Cl isoform, KCC2, and the effects of phosphorylation on protein localization.

### Pharmacology

**Francisco Almeida:** Fas ligand neutralization prolongs IgE-mediated airway inflammation in a murine challenge model.

**Erica Diehl:** Anatomical specificity and changes of select TRP channels as a function of bladder overactivity.

**Kimberly Roland:** The role of shear stress in SK&F-82526-J (Fenoldopam) induced mesenteric vascular injury of rats.

**Nancy Diaz-Granados:** A comparison of methods for the ascertainment of adverse drug reactions of antidepressant medications.

### Microbiology

**Stephen Soltys:** Purification of adeno-associated virus serotypes 1-9 through ion-exchange chromatography; a direct comparison to cesium chloride purification.

**Elizabeth Cunningham:** A media and advocacy analysis to gain knowledge and formulate educational strategies for the current pharmaceutical and patient support environments regarding soft tissue sarcoma, renal cell carcinoma, ovarian cancer and breast cancer.



Vanessa Mitchell

## Information Sessions

*Tell your friends!*

**Saturday 4 October**  
**10.00 AM—11.00 AM**  
**OR**

**Wednesday, 12 November**  
**5.30 PM – 7.00 PM**

**Jefferson Alumni Hall,  
The Jefferson Club**

**RSVP: Ella Henderson**  
**+1.215.503.0154 or**



[msbasicsciences@jefferson.edu](mailto:msbasicsciences@jefferson.edu)



## Graduation 2009

*Tell your friends!*  
**Don't forget!!**

\* All students must complete a graduation form in the Fall prior to graduation. This form is sent to students from the Registrar's *via* their Jefferson email account. Copies of this form may also be obtained from the office in M-46 JAH.

# CAPSTONE (Non-laboratory thesis) OPTION FOR COLLEGE OF GRADUATE STUDIES MASTER'S DEGREE PROGRAMS: *Guidance*

TJU College of Graduate Studies is inaugurating a new capstone (non-lab thesis) option leading to the granting of a Master of Science (MS) degree in the respective program areas of: Biomedical Sciences; Cell & Developmental Biology; Microbiology; and Pharmacology. This new option is designed to benefit individuals with current positions or career goals in secondary education, regulatory affairs, clinical research, industry, government, and other professions who desire the didactic classroom exposure afforded by advanced graduate studies in the biomedical sciences but for whom a traditional lab research-based MS thesis may not be the most appropriate option to advance their career. The new option will still require 40 credits for completion.

The traditional lab research-based MS option requires 6 credits of laboratory research resulting in a thesis. Instead of the traditional master's research path, the new option will offer a 3 credit independent study that will lead to a 3 credit capstone project. The independent study and the culminating capstone project will represent an activity targeted at the integration of, in a formal scholarly work, the knowledge and skills learned in the program through didactic course work and focused in an area chosen jointly by the student and the Capstone Advisor with the approval of their Program Director. The project will result in a scholarly paper that can represent a scientific policy discussion, analysis and solution of a real life problem at the student's place of employment, or a detailed discussion of a specific research topic of particular interest to the student. This scholarly paper or capstone project would be presented formally in a public forum in a manner similar to the defense of a traditional laboratory research-based thesis.

The student will:

- Identify a Capstone Advisor in collaboration with their Program Advisor;
- Develop an independent study project in consultation with their Capstone Advisor;
- Propose a capstone project based upon their independent study;
- Identify members of the Capstone Committee in collaboration with their Capstone Advisor. Membership of the Capstone Committee should consist of at least two members, *e.g.*, a Capstone Advisor and other members one of whom could be the Program Director. One member of the committee must be of faculty rank at TJU and;
- Follow-through on the development of the capstone project in exactly the same manner as outlined in the current Master's Degree Thesis Manual with appropriate review meetings and the Milestone Stage Contract & Checklist and;
- Provide a final written document that will be submitted to the Capstone Committee. The student will present this final scholarly work in a public forum and the final copy of the Capstone Project plus the Capstone Committee signature page will be submitted for the record to the Office of Graduate Studies in JAH M-46.

**NOTE:** A comprehensive procedure manual specifically for the Capstone Project Option will be available soon in hardcopy in JAH M-46 as well as being posted on the JCGS Web Site.

## November Thesis Presentations

Please make every effort to attend the November presentations. Your presence will not only provide peer support for your fellow students, but also provide you with an excellent opportunity to become familiar with what will be expected when you have completed your research. If you have not yet selected a thesis topic, you may get some ideas from your peers! If you are planning on presenting in November, please contact Eleanor Gorman @ 503.5799 about the date.