

# CAMB 700: Topics in Microbiology

**Directors:** Drs. Jim Riley and Michael Betts

**Class Time and Location:**

Smilow 8-100

Tuesdays and Fridays, 3:30-5:00 PM January 18-March 22

**Course Description:** This course is designed for second year students in the MVP program, and focuses on grant writing and presentation in the scientific area of pathogen-host interactions. Students make a presentation designed for ~45 minutes on a topic related their research project or interests and how that project would be envisioned as an NIH style grant. They are requested to provide sufficient background, discuss what is known and what is not known about the topic, frame two to three Specific Aims for a potential grant application, and design and develop potential experimental strategies to address the central hypothesis of the grant proposal. The discussions are deliberately wide-ranging, and review recent literature, techniques, and how to construct a grant. One or both course directors will be present for each class, in addition to an external expert chosen to evaluate the specific topic being discussed. The students will learn how to prepare, present, and defend a research topic, as well as to open-mindedly integrate positive and negative criticism into the development of a strong research direction.

**Course Evaluation:** The success of the course rests entirely upon the discussion quality and engagement of the faculty and students involved. Class participation is 100% of grade.

**Schedule:**

Jan 18: Course introduction; 2 minute elevator pitch, discussion. MB, JR

Jan 22: Grant writing strategies, discussion. MB, JR, special guest star Matt Weitzman

Jan 25: Joshua Hatterschide (White) presentation. MB, JR, Jian You

Jan 29: Rina Matsuda (Abt) presentation. MB, JR, Joe Zackular

Feb 1: James Gesualdi (Alvarez) presentation. MB, JR, Dennis Kolson

Feb 5: Chris Gu (Bushman) presentation. MB, JR, Dan Beiting

Feb 8: Lavinia Gonzalez (Lopez) presentation. MB, JR, Paul Bates

Feb 12: Marcus Bolton (Hensley) presentation. MB, JR, David Allman

Feb 15: Katie Streleau (Striepen) presentation. MB, JR, Matt Weitzman

Feb 19: Nina Montoya (St. Geme) presentation. JR, Sunny Shin

Feb 22: NO CLASS

Feb 26: Vincent Wu (Betts) presentation. JR, Jorge Henao-Meija, (Andy Minn, TBC)

Mar 1: Katie Marquis (Bushman) presentation. JR, Mike Silverman, Maayan Levy

Mar 5: NO CLASS

Mar 8: Trevor Griesman (Cherry) presentation. JR, Paul Bates

Mar 12: Emily Cribas (Abt) presentation. MB, JR, Joe Zackular

Mar 15: Daniel Akuma (Brodsky) presentation. MB, JR, Jorge Henao-Meija

Mar 19: Philip Hicks (Bates) presentation. MB, JR, Matt Weitzman

Mar 22: Ariel Shepley-McTaggart (Harty) presentation. MB, JR, Paul Bates