Fall & Spring Course Announcement: AMS-532

Journal Club in Computational Biology

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Class schedule and syllabus: http://www.ams.sunysb.edu/~rizzo (go to Teaching)

GENERAL INFORMATION: AMS-532 is a two semester course in which students attend and actively participate in research discussions at weekly Journal Club meetings on topics from the current literature using the skills and knowledge acquired during laboratory rotations (AMS-531), or, if they have already joined a research lab, on topics relevant to their own research projects. In the Spring, a new component is added which is devoted to Responsible Conduct of Research (RCR) training as mandated by the University and Federal funding agencies (e.g. NIH, NSF, DOE, DOD). Note that Journal Club and Responsible Conduct of Research are required of all PhD and Masters students. All students (in other tracks, graduate programs, or already in a research group) are fully welcome to participate in Journal Club.

Journal Club: The goal of the "Journal Club" portion of AMS-532 is for students to hone critical reading and analytic skills through group discussion of literature related to lab rotation research programs. Participants take turn being "discussion leader" who informally guides the group through a manuscript for which all Journal Club members will have read in advance of the meeting. Normally, research papers are suggested by the PI of the laboratory hosting the student in laboratory rotations (AMS-531). An interactive WIKI page is maintained at http://ringo.ams.sunysb.edu/index.php which list papers covered to date in Journal Club along with a Course Schedule listing each week's discussion leader.

JC Guidelines:
Please email a pdf to the group by Friday for the upcoming Wed meeting.
Print out a hard copy of the paper, make notes, and bring to class.
Become engaged in the discussion.
Discussion leaders please update the WIKI with the complete reference of your paper covered in class.

Responsible Conduct of Research (RCR): The first ten Journal Club meetings in the Spring are devoted to training in "Responsible Conduct of Research" arranged in the following sections: (1) Course Overview: Fulfilling Responsible Conduct in Research Training, (2) Integrity in Scholarship, (3) Scientific Misconduct, (4) Mentoring, (5) Ownership and Authorship, (6) Plagiarism, (7) Data Management, (8) Journalism and Science, (9) Responsible Conduct of Research Involving Human Subjects, and (10) Responsible Conduct of Research Involving Laboratory Animals. Prior to each meeting, students will view online lectures by Stony Brook faculty and read additional relevant materials, which often include case studies. The RCR meetings will be run as small group breakout sessions followed by group discussion. To fully fulfill RCR training, students must also complete a relevant RCR module, and achieve a passing grade of at least 80% on subsequent quizzes, within the web-based Collaborative Institutional Training Initiative (CITI) located at www.citiprogram.org. See Course Schedule at the bottom of the WIKI page ( http://ringo.ams.sunysb.edu/index.php ) for more information including relevant links, topics, and dates for RCR meetings.

RCR Guidelines:
Attendance/participation is mandatory.
View online lecture prior to each RCR meeting.
Read relevant materials prior to each RCR meeting.
Come prepared discuss the questions listed for each RCR meeting.