1. Course Information

Anatomy and Cell Biology 4429a
“Advanced Medical Cell Biology”

Fall Term 2017 Session – Information and Schedule

Course description

The study of the molecules and functions common to mammalian cells, the specializations that make differentiated cells distinct, and the diseases that result from the dysregulation or loss of these cellular functions. The lectures will cover cellular organization, biogenesis of organelles, growth and differentiation from an experimental perspective. The tutorials will consist of seminars by invited speakers on topics in cell biology with a medical relevance. These tutorials will demonstrate the approaches used to answer questions in the field of experimental cell biology.

Place and Time: Lectures: Monday 9:30 – 10:30, room DSB 2016
Wednesday 9:30 – 10:30, room DSB 2016
Seminars: Friday 9:30 – 10:30, DSB 2016 (DSB 3008 until Oct 6th)

Antirequisite: The former A/CB 329b.
Prerequisite: Biology 3316a or Physiol 3140a, with a minimum mark of 70%.

Senate regulation regarding the student’s responsibility regarding requisites:
"Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you will be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites."

2. Instructor Information

Course Director: Dr. Paul Walton Room 474 Medical Sciences
Telephone x86825 (pwalton@uwo.ca)

3. Course Materials

Scientific review articles, seminar articles and class notes (to be placed in WebCT):
Students are expected to have read the relevant course-material before coming to classes.

Optional textbooks:

4. Evaluation:

An assignment, due Wednesday, October 25th, will act as a midterm mark and be worth 30% of the final course mark.

The final examination will consist of a short answer component, and will cover all of the material contained in the lectures and tutorials. The final exam will be held in the scheduled examination period and will constitute 70% of the final course mark. The schedule for this final examination is TBA.

Assignment:

Each student will be required to write a report on a topic to be selected from one of the general topics presented as one of the lectures (e.g. Gene Therapy). The topic selected, with a few introductory notes, should be submitted and approved by the instructor during the week of September 18th.

The report should consist of:

1) a summary of the particular area of medically related cell biology
2) an important, unresolved question that is derived from the previous work
3) an experiment or experiments designed to answer that question.

The report is limited to five standard pages (not including references) of double-spaced, 12 point type, contained within 1 inch margins. This restriction is designed to promote a clear and concise description of the topic, question, and experiment. Reports that do not conform to these standards will be assigned a mark of zero.

In addition to the paper-copy of the final report, students must submit an electronic-version of the report, as an uncompressed Microsoft Word (or equivalent) file. This material will be used for plagiarism checking and in case a question of authenticity should arise; it will not be used in the marking of the assignment.

The report should be handed in by, 2:00 pm, Wednesday, October 25th 2017. Late submissions will be accepted, but will be penalized at a rate of 20% per day. No submissions will be accepted after 2:00 pm, Wednesday, November 1st 2017.