**CSB 349H1F - EUKARYOTIC GENE EXPRESSION**

30L, 18T

**Lecturers:**

Prof. J. Calarco john.calarco@utoronto.ca

TBA

**Course Coordinator:**

Prof. W. Moeder wolfgang.moeder@utoronto.ca

**CSB 349 Office:**

Nyla Maharaj RW 206A 416-978-6442  csb349.csb@utoronto.ca

**Exclusion**: MGY311Y1, MGY420H1

**Prerequisite**: BIO230H1/255H1, BIO260H1/HMB 265H1

**Recommended Preparation**: BCH210H1

The content of this course covers genome organization and the regulation of gene expression building on material covered in BIO 130H1 and 230H1. An understanding of genetics is essential to read primary papers in molecular biology; students must take BIO 260H1 or HMB 265H1 **prior** to CSB 349H1. In addition, students in CSB 349H1 are expected to have a background in organic chemistry (to the level of CHM 247H1) and biochemistry (BCH 210H1).

Students will attend lectures and tutorials. The lectures will provide a framework of background information, while the tutorials will emphasize reading and analyzing primary literature. A big part of the tutorial will be a team-based project.

The emphasis in this course is on self-directed learning and critical thinking; the process of science will be stressed more than the content of the discipline. All students should be able to use the library resources by the end of the course. In addition, students will need to become proficient at interpreting data from original papers, writing analyses of data and designing simple experiments.

*Tutorials begin the first week of classes*, so be sure to attend your first tutorial since the PBL groups will be formed in the first tutorial. After ROSI closes for tutorial enrolment, all tutorial requests or changes must be made in person at the CSB349 office no later than Sep. 10th, 2018.

**Required Text**: CSB 349H Manual available at Scholar House Productions, 100 Harbord Street.

**Recommended Text** (optional): TA Brown, Genomes, 3rd edition or Alberts *et al., Molecular Biology of the* Cell, 5th or 6th edition or H. Lodish *et al*. *Molecular Cell Biology* 6th Edition.

**Evaluation**: 2 term tests worth at least 40% and tutorials including a major group project. Term tests will take place during the lecture period.