Course title: LMP408H1 – Genetic Modelling of Human Development and Disease

Lectures dates, instructors and topics (To be updated):

1  Sept 5   David Irwin – Introduction
2  Sept 12  David Irwin – Model species used in biology
3  Sept 19  David Irwin – Bioinformatic analysis of data from model species
4  Sept 26  David Irwin & TA – Scientific debate of genetic model papers
                      (group activity) (10%)
5  Oct 3    Jixuan Wang & TA – Phenotate biomedical crowdsourcing
                      database (group activity) (5%)
6  Oct 10   Midterm (35%)
7  Oct 17   Jason Fish – Zebrafish in vascular development
8  Oct 24   Jeehye Park – Flies in neurodegeneration
9  Oct 31   Ian Rogers – Stem/iPS cells in modeling human development and
disease
10 Nov 7    no lecture, reading week Nov 4-8
11 Nov 14   Razq Hakem – Mouse modeling of human diseases
12 Nov 21   TBA
12 Nov 28   Student project presentations (individual/group activity 10%)
TBA        Final Exam (40%)

Recommended Readings/Text book:
None. Students will be expected to read assigned papers from scientific journals.

Academic Integrity: Academic integrity is essential to the pursuit of learning and
scholarship in a university, and to ensuring that a degree from the University of Toronto
is a strong signal of each student’s individual academic achievement. As a result, the
University treats cases of cheating and plagiarism very seriously. The University of
Toronto’s Code of Behaviour on Academic Matters
(www.governingcouncil.utoronto.ca/policies/behaveac.htm) outlines the behaviours that
constitute academic dishonesty and the processes for addressing academic
offences. Potential offences include, but are not limited to:

In papers and assignments:
1. Using someone else’s ideas or words without appropriate acknowledgement.
2. Submitting your own work in more than one course without the permission of the
   instructor.
3. Making up sources or facts.
4. Obtaining or providing unauthorized assistance on any assignment.
On tests and exams:
   1. Using or possessing unauthorized aids.
   2. Looking at someone else’s answers during an exam or test.
   3. Misrepresenting your identity.

In academic work:
   1. Falsifying institutional documents or grades.
   2. Falsifying or altering any documentation required by the University.

All suspected cases of academic dishonesty will be investigated following procedures outlined in the Code of Behaviour on Academic Matters. If you have questions or concerns about what constitutes appropriate academic behaviour or appropriate research and citation methods, you are expected to seek out additional information on academic integrity from your instructor or from other institutional resources (see www.utoronto.ca/academicintegrity/resourcesforstudents.html).