**CSB 340H1F - PLANT DEVELOPMENT**

24L

**Lecturer:**

 Prof. T. Berleth thomas.berleth@utoronto.ca

**Prerequisite:** BIO 230H1/255H1/, BIO 260H1/(HMB 265H1 with a minimum grade of 73%)

Understanding of Plant Development is crucial for satisfying the world’s demand for food and bioenergy in a sustainable way. This course explores plant development at the genetic, molecular, cellular and organismal levels and deals with the generation and use of genomic resources in plant model organisms. Focus areas: plant embryo and meristem/stem cell development, plant growth and patterning. The course will introduce into, but also crucially depend on the reading of original research publications and on the use of genomic resources applicable to plant biotechnology.

**Required Text**: current literature will be available from online resources.

**Evaluation**: The total mark of the course is comprised of the marks: 15% take home assignment, 35% midterm, 50% final exam.