## SDB Bootcamp 2012 - Arabidopsis thaliana - T. Western, Biology Dept., McGill University

## Topics:

- 1. Arabidopsis lifecycle, morphology and crossing
  - a. Handout basic Arabidopsis growth & handling
  - b. Demo (& practise?) crossing
- 2. Genetics of floral development in Arabidopsis sample undergraduate developmental biology lab
  - a. Handout genetics of floral organ identity lab building of a genetic model from phenotypes ABC model of floral organ identity (developed for BIOL 263 Developmental Biology UBC-Okanagan [formerly Okanagan University College])
  - b. Demo pared down version of lab
- 3. Use of GUS (*B-GLUCURONIDASE*) reporter gene for spatial/temporal study of gene expression have designed a plant gene expression lab at transcript level using promoter-reporter gene paired with qualitative RT-PCR for use in a Cell & Molecular Biology lab course at McGill University (BIOL 301)
  - a. Handout GUS staining
  - b. Demo (time allowing) observation of stained tissue (no time to do staining)