

Looking for a research project for course MCB\*4500 and 4510?

The Nassuth lab has several possible projects

1. Investigating transcription factor activities on both native and artificial promoters, using an agroinfiltration-based transactivation system (see Nassuth et al., 2014). Mutations can be made in either transcription factor encoding constructs or in promoter constructs to determine which sequence is important for transactivation.
2. Investigating the role several transcription factors, or combinations thereof, in stomatal development, using agroinfiltration of young, developing tobacco leaves. Using wild type or dominant-negative versions of the transcription factors should give opposite results and help pinpoint which step in stomatal development is affected. Mutations in the constructs will help identify important sequences.
3. Investigating interactions between transcription factors and other proteins, using BiFC and pull down assays.

Contact Dr. Nassuth ([anassuth@uoguelph.ca](mailto:anassuth@uoguelph.ca)) if you are interested and like to hear more about these projects.