

Plant Molecular Biology with Dr. Brian Ham (Department of Biology)
Winter Term January 2022

The plant vascular system, comprised of xylem and phloem, plays a central role in distribution of resources required for both development and metabolism. And many potential signaling molecules (RNA, proteins) can be transported through the plant vascular system; shoot-root communication is mediated by plant vasculature and plays a role in mineral nutrient homeostasis. Students will learn practical molecular biology techniques and analyze the data which they obtain from experiments. Students will examine various plant response of genetic materials (e.g. Arabidopsis, cucumber) under Pi-starvation stress conditions. Prerequisites: Completion of 12 credit units of senior BIOL courses (students should complete BIOL 222 and BIOL 226 courses). Contact Dr. Ham at byungkook-brian.ham@usask.ca