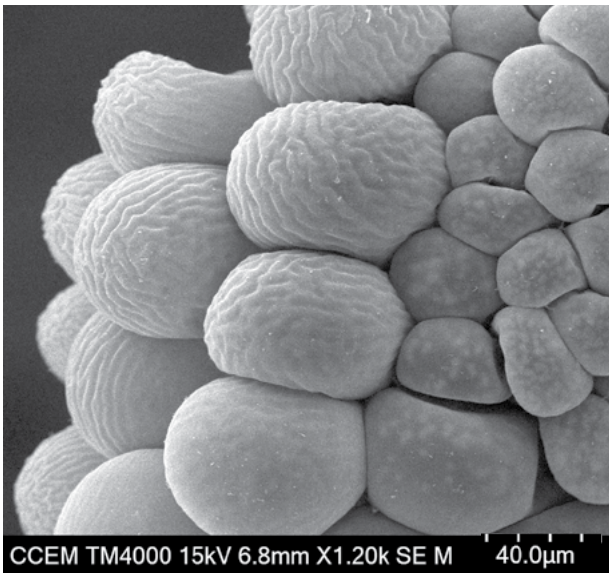
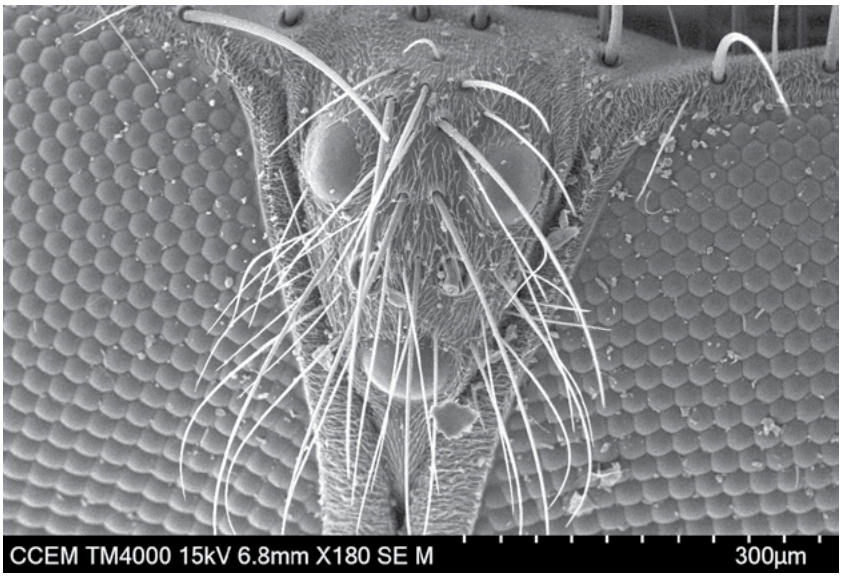
NEXTGEN MICROSCOPIST



Plant stigma



Fly eyes and ocelli

Educational and inspirational

FREE hands-on learning experience

The purpose of the **NextGen Microscopist** program is to increase student exposure and accessibility to the world of electron microscopy. Its goal is to educate and inspire youth to enter the science and engineering fields, through a free, hands-on learning experience with a scanning electron microscope (SEM).

A SEM uses a focused beam of electrons to create a magnified image of a sample at much higher magnifications and resolutions than a light microscope. Using the SEM, students will follow a provided lesson plan, or custom plan on request. The Hitachi TM4000Plus portable SEM is a user-friendly device that is great for beginners of all ages. The SEM has the capability to travel throughout Canada. It can also be operated remotely. This provides a unique experience for users.

What we supply

- Free loan of the portable SEM for up to a month
- Full transport, setup, training & support
- Materials to assist with teaching and training (samples of your choosing from a predefined inventory, or customized through individual consultation)

Benefits of the program

- Insight into science and engineering
- Increased diversity and inclusivity within the science and engineering fields
- Develop and advance communication and leadership skills through engagement, exploration and learning

Established in 2004, the **Canadian Centre for Electron Microscopy** (CCEM) is located at McMaster University and is funded by the Canada Foundation for Innovation (CFI) Major Science Initiatives (MSI) program.

APPLY HERE for the NextGen Microscopist program
ccem.mcmaster.ca/ccem-academy/nextgen-microscopist-program