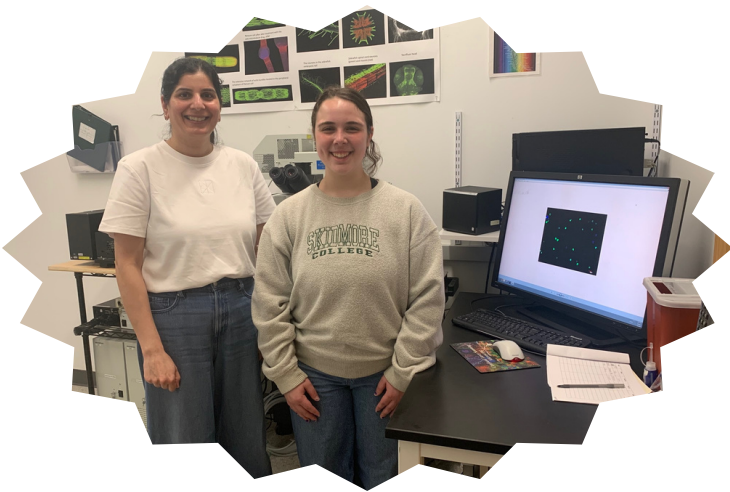




SKIDMORE MCGRAW MICROSCOPY IMAGING CENTER NEWSLETTER 2026 FALL

Skidmore McGraw Microscopy Imaging Center (SMMIC) is an institution-wide technology center opens to all members of the Skidmore community as well as external users. SMMIC supports advance microscopy-related research projects and scholarship application involving Skidmore faculty and students; Also provides micrscopy training and education by a variety of microscopy courses. The center also serves as a hub for collaborative research initiatives and community outreach programs.

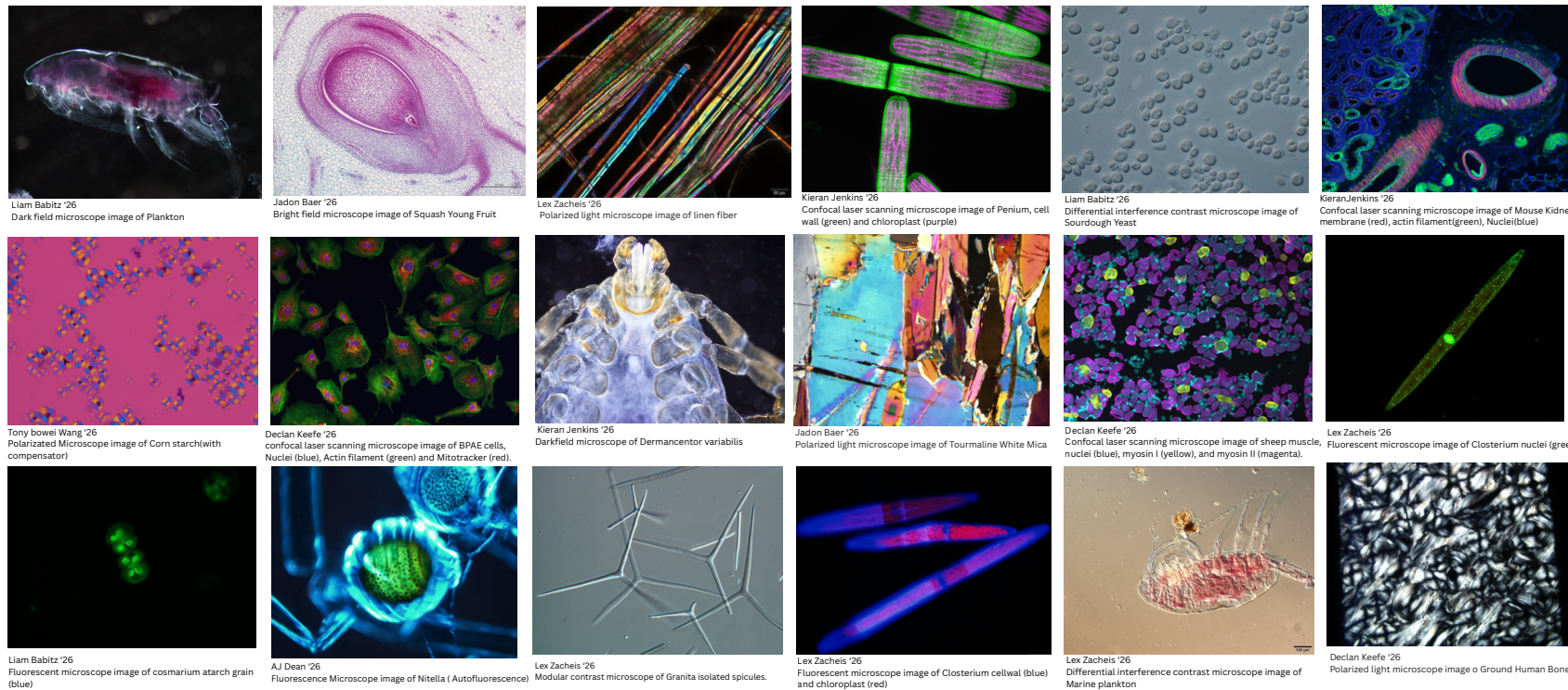


Student Research scholarship application supported by SMMIC

CONGRATULATIONS to Elizabeth Pyle '28, one of the nine recipients of the 2026 Microscopy Society of America (MSA) Undergraduate Research Scholarship! This scholarship is exclusively awarded to undergraduate students pursuing research involving microscopy and imaging techniques. Elizabeth conducts research under the mentorship of Professor Neha Arora, investigating algal architecture using confocal laser scanning microscopy and electron microscopy in SMMIC. This research provides an opportunity to apply advanced microscopy and imaging technologies to the study of biological structures while gaining valuable hands-on research experience as an undergraduate. Congratulations, Elizabeth, on this well-deserved recognition! 🎉

Advanced Light Microscopy Class in SMMIC

The BI368 Advanced Light Microscopy course was held at SMMIC during the 2026 spring semester. As one of the two most popular microscopy courses among Skidmore science majors, BI368 provides a unique opportunity for students to explore in-depth knowledge and comprehensive hands-on experience with seven major type of light microscopy techniques, including brightfield, phase contrast, darkfield, modular contrast, polarizing, fluorescence, and confocal laser scanning microscopy. Enjoy this showcase of standout images from students' digital portfolios, featuring their creativity, talent, and impressive final projects!



Faculty Research Publications Supported by SMMIC

Through the use of state-of-the-art microscopy and imaging technologies in SMMIC, Researches conducted by Skidmore science faculty result in advacned scientific discovery and impactful scholarly publications. These accomplishments demonstrate the critical role of SMMIC in enabling innovative research, fostering interdisciplinary collaboration, and providing researchers with access to sophisticated imaging and characterization capabilities. The following are some highlighted faculty publications in 2026 supported by SMMIC.



Professor Jason Breves

Jason P. Breves Ming-Wen Hu, Mayu Inokuchi, Lucia A. Seale, Andre P. Seale (2026) Prolactin, cortisol, and extracellular osmolality regulate cftr, ostf1, and sgk1 in tilapia ionocytes. *Frontiers in Endocrinology* 17: 1802254
***SMMIC instrument mainly used in the study: Confcal laser scanning microscope**



Professor Juan G. Navea and Professor Maryuri Roca

Lyra Flinn, Rachel K. Hambuchen, Olivia Kazanjian, Nicole A. Wilson, Natalie O'Neill, Meiirzhan Karataikyzy, Hugo Van Dis, Maryuri Roca and Juan G. Navea (2026) Photocatalytic iron dissolution and speciation in Cu-modified TiO2 aerosol proxies. *The Royal Society of Chemistry*, <https://doi.org/10.1039/d6ea00087h>
***SMMIC instruments mainly used in the study: Scanning electron microscope, Transmission electron microscope**



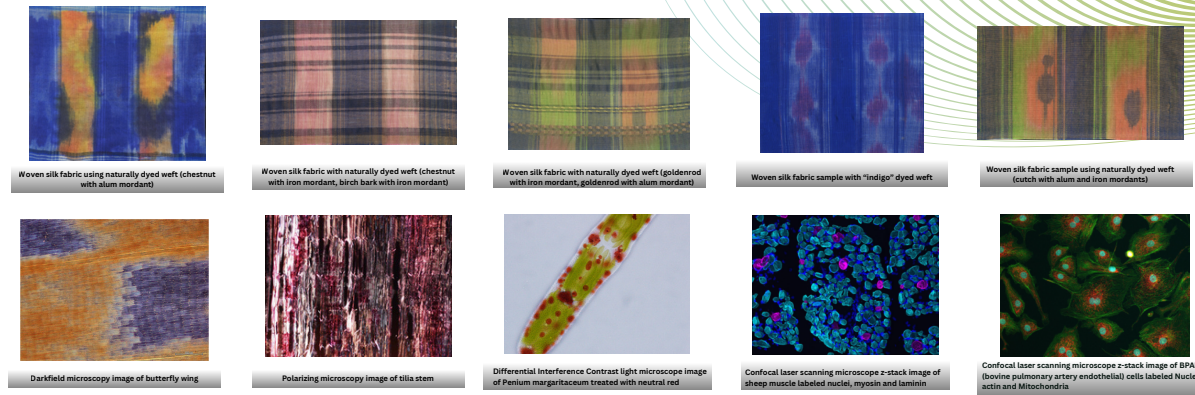
Professor Emeritus David Domozych

- David S Domozych, Josephine G LoRicco, Li Kozel, Kaylee Bagdan, Stuart Malone, Michael Becker, Lindsay Bauer, Ashley Buick, (2026) Managing pectin: maintenance of cell wall integrity in the streptophyte alga Penium margaritaceum, *Annals of Botany*, <https://doi.org/10.1093/aob/mcag107>
 - David S Domozych, (2026) Streptophyte algae and terrestrialization: breaking down the fundamental challenges from an ECM perspective, *Plant Physiology*, <https://doi.org/10.1093/plphys/kiag307>
- *SMMIC instruments mainly used in the study: Research light microscope, Confocal laser scanning microscope, Scanning electron microscope, Transmission electron microscope**

Microscopy Images Inspired Fibric Art

This fabric art piece is the result of a collaboration between two Skidmore students from different disciplines—Biology and Studio Art. Drawing inspiration from the remarkable colors and patterns of biotic materials observed under various microscopes, the artists used these microscopic visuals as central references in their creative process. The result is a fusion of scientific observation and artistic expression, demonstrating how interdisciplinary collaboration can shed new light on both fields.

***The art pieces are displayed on second floor CIS west wing.**



Isabella Ballon '26

Fiber Art | Textile Design | Sustainable Practices
Isabella Ballon is a studio art student in the Class of 2026, concentrating in fiber arts with a strong focus on textile sustainability. She designed and handwoven all the fabric art pieces in this collection during her semester abroad in London in spring 2025, where she studied textile design and deepened her commitment to sustainable materials and practices.

Stuart Malone '26

Microscopy | Mycology | Biological Imaging
Stuart Malone is a Biology major in the Class of 2026 with a deep interest in mycology and microscopy. As the microscopist behind the inspiring images featured here, he captures the intricate beauty of the microscopic world, offering a unique lens into the unseen structures of life.

