Bio-image analysis working group

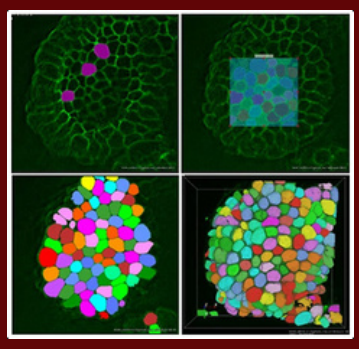
We want to organize a group where people can share and brainstorm their image analysis projects. How this is mediated is where we need your opinion! **Fill out the survey with the QR code below to let us know what you would find useful and to get a free MIC t-shirt.**

Let us know what you think!

RESOURCE SPOTLIGHT
Visit Image.sc Forum for more discussions of image analysis and related topics.

MIC image analysis software

Imaris: Spot and surface detection, filament tracing
AIVIA: Deep learning-enabled software for 3D image segmentation

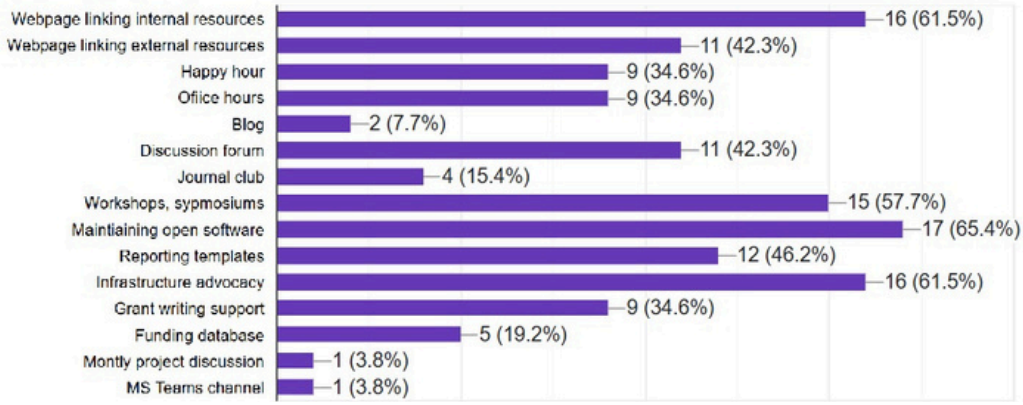


AIVIA's Segment-by-example

WE WANT YOUR OPINION!

On our biological image analysis working group

Which functions of such a group would be useful to you? Fill out our survey **here** or with the QR code on the left. See below for a summary of the received responses so far. Thank you to everyone who has already filled out the survey!



MIC NEWSLETTER

January 2026 **ILSB 1143** **microscopy.tamu.edu**

Every month the MIC will send out a newsletter with up-to-date announcements, instrument highlights, and upcoming events. See previous newsletters on our website, here.

LEARN MORE ABOUT AIVIA

The MIC hosted a lunch-and-learn workshop in December on AIVIA, an AI-enabled software for 3D image segmentation **available to users in our analysis lab**. Application specialist Cody Keating shared some of the most recent additional functionality provided in AIVIA 15, including the **ability to deploy and fine-tune a variety of deep-learning models** for preprocessing and segmentation, as well as the ability to **train custom object classifiers with a paint-by-example interactive interface**. These segmentation tools complement the pixel classifier and more traditional surface segmentation tools available through our Imaris license.

So, if you have been struggling to get a good segmentation with Imaris, or if you are just curious to see results of the deep learning segmentation tools would look like on your data, please contact Holly Gibbs or Anindito Sen to find out how to access the software and workstation here at MIC. With our DevMode license we also have **full-time support from AIVIA's staff** to help train individuals who want to use the software virtually and to implement existing deep-learning models in AIVIA's environment.

Also, we have to thank AIVIA's Scott Benton for providing pizza and some holiday jazz to our 11 lunch-and-learn participants!

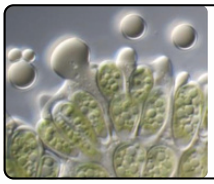
Using the MIC? Please cite us by our Research Resource ID in your paper - RRID:SCR_022128.

MIC NEWSLETTER - EVENTS

January 2026 ILSB 1143 microscopy.tamu.edu

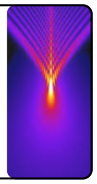
Spring 2026

Jan. 12 - Apr. 28



TAMU Microscopy Courses

Learn more about microscopy by taking a course co-taught by MIC staff.



BIOL 430

Biological Imaging

Theory and principles of light and electron microscopy and non-light imaging (MRI, CT scans, X-ray); digital image analysis and processing.

Taught by Dr. Larry Griffing (MIC, Biology) and Dr. Matthias Koch (Biology)

BIOL 608

Light Microscopy

Theory and principles of light microscopy; practical experience; sample preparation, image acquisition, and image processing.

Taught by Dr. Stan Vitha (MIC) and Dr. Beiyan Nan (Biology)

Contact: Dr. Larry Griffing, Dr. Stan Vitha

Picture of the Month

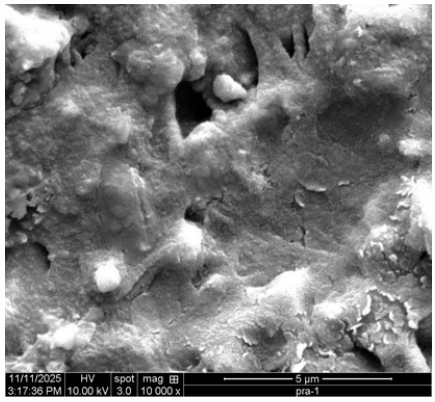
Submit an image taken with an MIC instrument to be displayed on our website and to win a **free MIC t-shirt!**

Submit on our website, here, or with the QR code above by **January 31, 2026** for a chance to become February's picture of the month winner!

December POM by **SK Hossain**

"Infiltrated ceramics"

Freeze caste Lunar regolith monolith filled by the Na2SiO3 solution to improve the mechanical properties. Taken with FEI Quanta 600 SEM at 10000X. Sample and image courtesy of SK Hossain, member of Dr. Jeff Bullard's lab, Civil Engineering, TAMU.



Contact: Dr. Sara Maynard

Feb. 19 & 20

University of Texas, Austin

Texas Society for Microscopy Meeting

"This annual event brings together **experts and enthusiasts in microscopy** to share knowledge, showcase the **latest advancements**, and network with peers. The meeting features hands-on **workshops, a scientific conference, and a vendor fair**, along with platform and poster presentations." - TSM website

Rigister here: https://texas.microscopy.org/Meeting-Registration