

# HSC Imaging Core Newsletter February 2021 (Vol 4.)

Happy New Year! Our Core appreciates the support from all of our users, faculty committee members, and HSC Administration that have helped our core run smoothly. Thank you for all of your suggestions and comments that we have used to continuously improve our services during these unprecedented times.



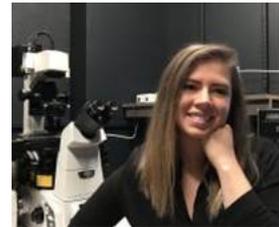
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Please subscribe to our Youtube Channel ( <https://www.youtube.com/channel/UCTSL-YmOYtIfz34zzNRrF5A> )

and Twitter ( @UofUMicroscopy ) for information and new event details from the core.

# Outlines

1. **Instrument update (removal and additions)**
2. **Update: One-on-one training on pause**
3. **Light Sheet Microscope Survey**
4. **Inscoper Software**

## 1. Instrument updates

Please read carefully to prepare for any instrument update that may affect you - please see the following table for a summary of those changes.

<b>Name</b>	<b>Location</b>	<b>Feature</b>	<b>Action</b>	<b>Schedule</b>	<b>Training</b>
Nikon Widefield	HSC 56	Widefield	Retire	Done (Oct 2020)	
Nikon A1	HSC 59	Confocal	Retire	Feb 2021	
Delta Vision	EEJ 5100	Widefield	Add	Done (Oct 2020)	Mike, Xiang
Zeiss 700	HSC 56	Confocal	Add	Feb 2021	Mike, Xiang
STEDYCON	CSC 032	Confocal+ Superresolution	Add	Mar 2021	Xiang, Mike

a). We retired our Nikon Widefield in HSC last Fall and replaced it with a Delta Vision Ultra widefield microscope. The Delta Vision is currently located in the EEJ building, RM 5100. For consultation and training, please contact Mike or Xiang.

b). We will retire the Nikon A1 confocal in HSC RM 59 and replace it with a Zeiss 700 confocal microscope. This Zeiss 700 is equipped with three lasers (488, 555, and 633 nm) and operated by Zen Black software. It has the basic functions as the Nikon A1, but much newer and less trouble. We will update the specification on our website once this system is installed and tested. It will be available to users by the middle of Feb 2021. For consultation and training, please contact Mike or Xiang.



c). A big thanks to Dr. Ofer Rog from the Department of Biology who offered to integrate his STEDYCON, a true Superresolution microscope from Abberior, into our core. STEDYCON is a confocal based superresolution microscope and it will be put in CSC 032 alongside our Zeiss 880 and Olympus FV1000. The tentative installation date is around March 2021, and it may be available to users around early April 2021. If users have any potential projects, please plan ahead. For consultation and training, please contact Xiang or Mike. For more information about STEDYCON, please check this website: <https://abberior-instruments.com/products/stedycon/>

## 2. Training and Consultation (Update)

Due to the elevated covid-19 cases around the Imaging Core, we have decided to pause our one-on-one training until the end of Jan 2021 to protect our users and core members. If you have an urgent need, please provide the latest COVID-19 negative report (less than two days) to us. For Zeiss Axio Slide Scanner portfolio setup, Mike is still available for assistance. Once the situation is under control, we will resume our training ASAP.

From Feb, we RESUMED the one to one training. Our core members constantly test ourselves. We highly suggest users run a COVID-19 test before the training.

## 3. Light Sheet Microscope Survey

The purchase process of a Light Sheet Microscope was interrupted due to covid-19. We would like to resume this process in the new year. Please finish the Light Sheet Microscope Survey that we recently sent out if you are interested and provide as much information as possible so we can arrange the demo to match your experiments accordingly.

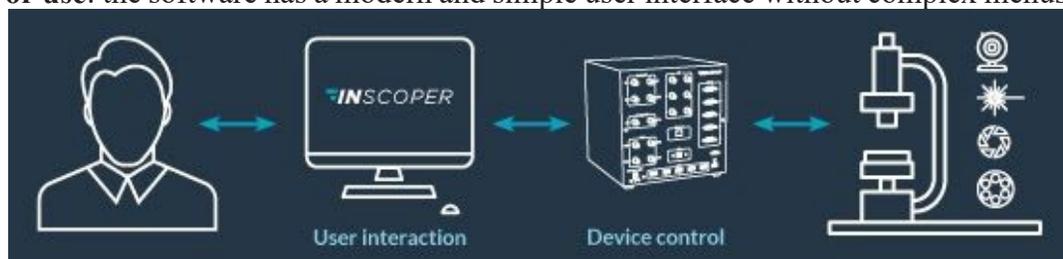
## 4. Inscoper Software

Inscoper is a software company located in France. It provides third-party software for operating widefield fluorescence microscope. Any lab owns an old/new microscope and would like to find a budget software solution to make it a workable widefield microscope, Inscoper could be a solution.

If you are interested, please contact either Xiang at [xiang.wang@cores.utah.edu](mailto:xiang.wang@cores.utah.edu) or Zafer Atik at [zafer.atik@inscoper.com](mailto:zafer.atik@inscoper.com). A free demo will be arranged.

INSCOPER is a full-featured control and image acquisition software solution for fluorescence microscopy. An integral element of the solution is a specially-designed electronic device for improved device control. The main benefits of this system are:

- **Universal device integration:** the solution can control and synchronize any third-party device or add-on with advanced video microscopes from Leica, Nikon, Olympus, and Zeiss. Even older devices whose software is no longer supported can be used.
- **Capability for complex manipulations:** the user can easily combine multiple microscopy techniques (multi-D, TIRF, FRAP, high-content screening, tiling, etc.).
- **Faster image acquisition:** all things being equal, a microscope controlled by Inscoper provides 3 times more images in the same time period than Metamorph/Zen/NIS/LasX and about 5 times more than Micromanager.
- **Consistent acquisition protocols:** all command signals are triggered and synchronized, ensuring stability and repeatability of the acquisition sequence.
- **Ease-of-use:** the software has a modern and simple user interface without complex menus.



The INSCOPER solution is compatible with new, old and home-made systems. Our support team will work with you to guarantee a fully operational microscope system. For more information, visit us at [www.inscoper.com](http://www.inscoper.com)