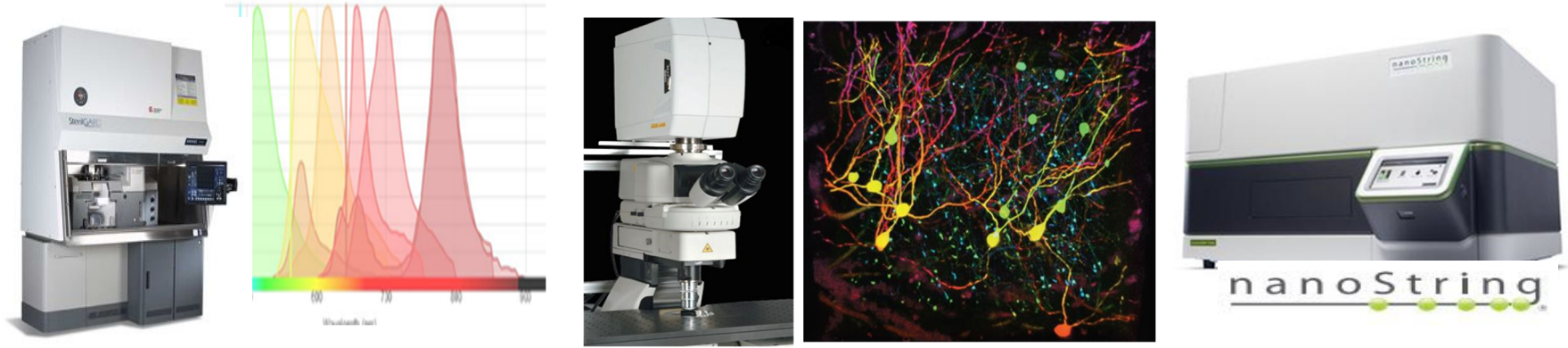


# UCR SCHOOL OF MEDICINE RESEARCH CORE



**ASTRIOS CELL SORTER**                      **NIKON A1R MP PLUS MULTIPHOTON**                      **NANOSTRING**

## CORE INSTRUMENTS AVAILABLE TO ALL!

SOM RESEARCH INSTRUMENTS ARE AVAILABLE FOR USE TO ALL RESEARCHERS

### NovoCyte Quanteon Flow Cytometer



#### ARRIVING SOON!

SOM is proud to announce the addition of NovoCyte to the Flow Cytometry Core.

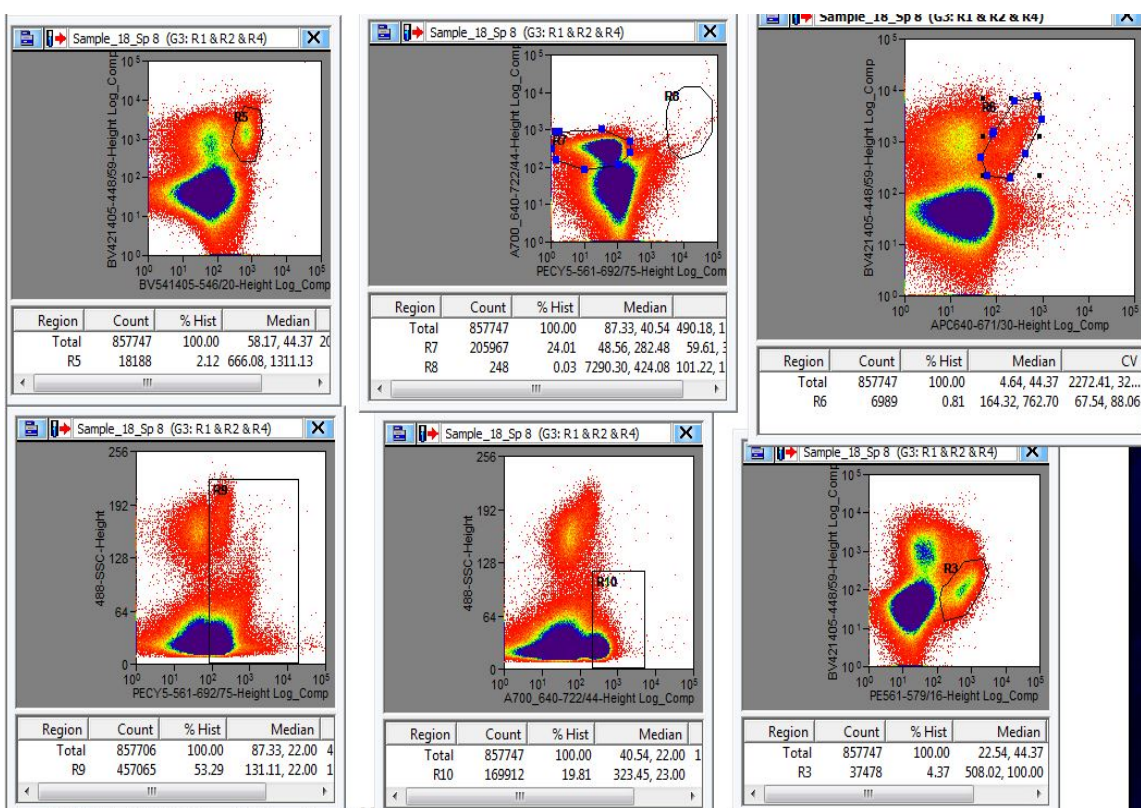
This is a user based cytometer offering 25 fluorescent channels and four lasers. State of the art sensitivity and resolution with user friendly software for data acquisition, analysis and reporting.

The NovoCyte Q accommodates high out-put, sophisticated multi-color flow cytometry.

Data and samples can be applied towards the Astrios for more comprehensive sorting.

Contact Mary Hamer for training and details

Mary.hamer@medsch.ucr.edu



### Cell Sorter Core Facility and FlowJO software for use

**Beckman Coulter Astrios EQs MoFlo:** State-of-the-Art capabilities in Flow Cytometry and Cell Sorting:

- 4 laser, 14 channel detection
- 6 way 5ml, 15ml or 50ml collection
- 96 well single cell capable
- Biosafety cabinet (BSL2) containment
- Sterile sort capability

Flow Jo software available at a dedicated workstation for data analysis of cell sort raw data. No additional charge for software use for first 4 hours with every SOM Cell Sort.

Scheduling is provided through FACES.

Contact Mary Hamer for further info.

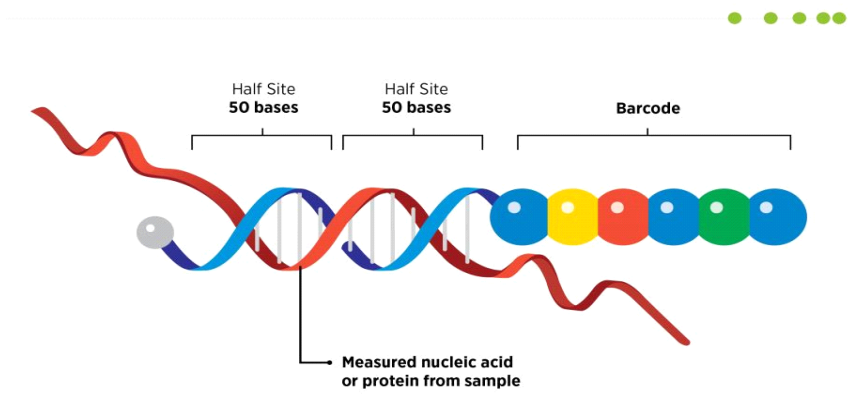
Mary.hamer@medsch.ucr.edu

<https://somresearch.ucr.edu/cell-sorter-core-facility>



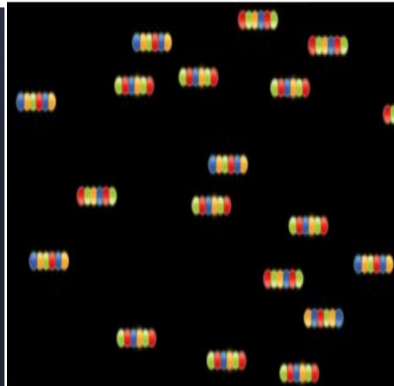
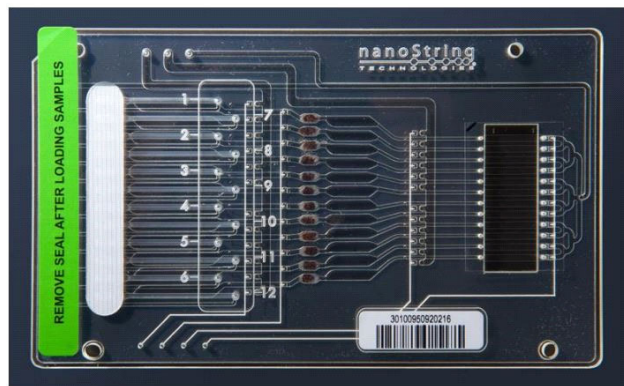
-THE DIGITAL NEWSPAPER-

Digital Counting using Barcoded Probes



Nanostring technologies offer the only direct digital counting technology with probes that detect up to 800 targets simultaneously. Applications include mRNA gene expression, non-coding RNA, DNA, protein expression. Pre-built Gene expression panels include: Oncology, immunology, neuroscience, autoimmunity, stem cell and custom panels can be made to your specifications.

- \* New Panels for 2020: include **Glial panel**
  - \* **Web access to UCR Nanostring** instrument from any computer.
- Contact Mary Hamer for training and access.  
[mary.hamer@medsch.ucr.edu](mailto:mary.hamer@medsch.ucr.edu)

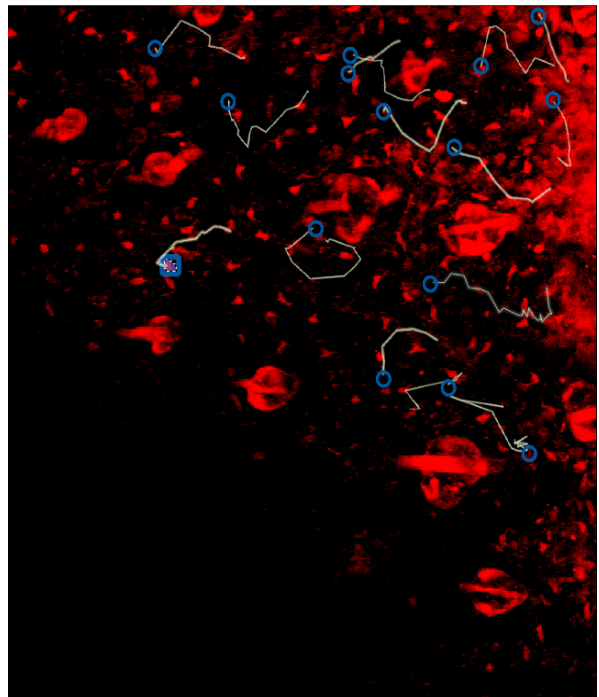
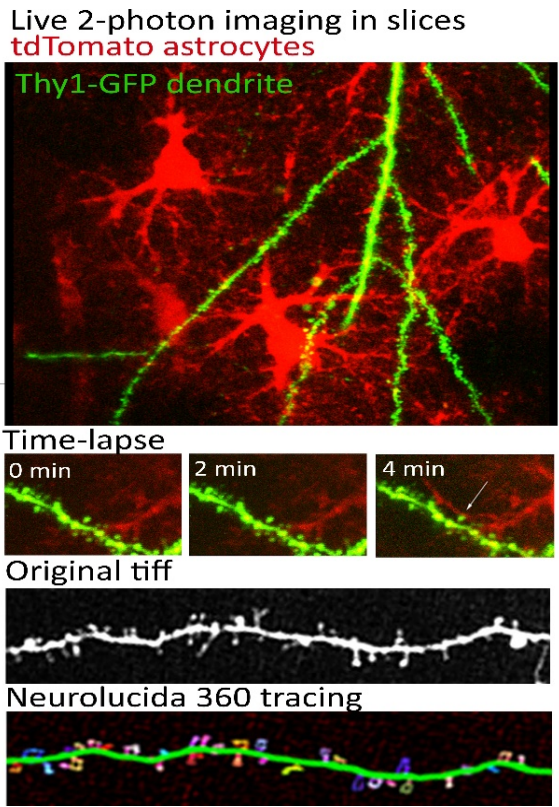
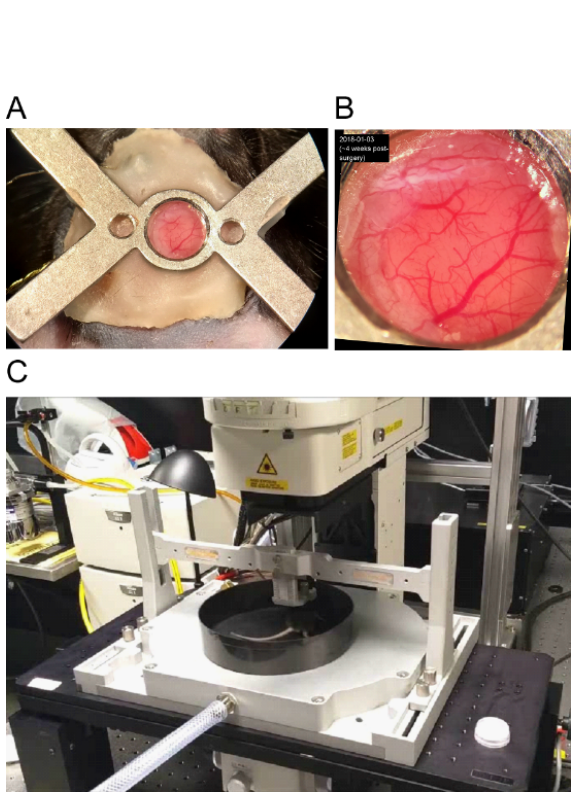


## Multiphoton Microscopy

Exciting research using Multiphoton Microscopy here at UCR

The SOM Research core is making it easier to include multiphoton microscopy in your next study. We are: setting up demos by Nikon and UCR researchers on a 4-6 month schedule, making IACUC protocol templates available, establishing a training video and personnel to assist in training.

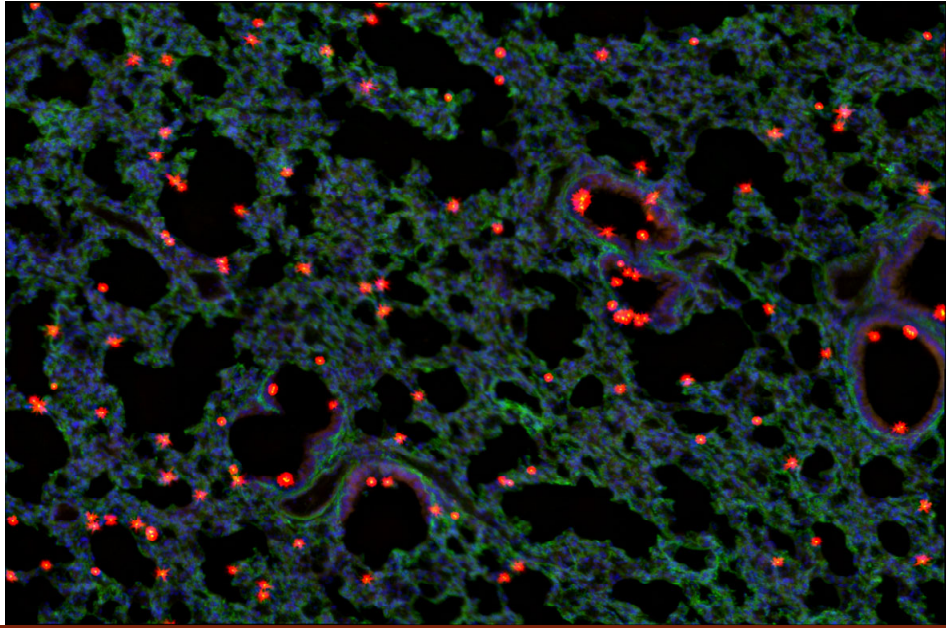
Please consult our website <https://somresearch.ucr.edu/multiphoton-core-facility> for more information  
Contact Mary Hamer for more details. [mary.hamer@medsch.ucr.edu](mailto:mary.hamer@medsch.ucr.edu)



**Mobile Home Cage:** preparation set up for 2-photon imaging in live animal study. Dr D. Binder lab, UCR.

**Time lapse** imaging study of astrocytes and dendrite spine formation. Dr I. Ethell lab, UCR.

Track of neutrophils showing swarm behavior. Dr D. Lo lab, UCR.



# HISTOLOGY CORE

Located in Webber Hall, room 1140

## INSTRUMENTS FOR USE BY UCR STUDENTS AND STAFF

**Cryostat:** Leica CM1950 is available for use to cut frozen tissue embedded in OCT compound. The Cryostat is kept at a constant -20°C for ready to use availability. Adjustable sectioning for precision slice thickness and positioning. User must provide their own cutting blades and ethanol for clean-up.

Contact Mary Hamer for training: [mary.hamer@medsch.ucr.edu](mailto:mary.hamer@medsch.ucr.edu)



**Tissue Processing station:** Available for use to process tissue of any type through a series of Ethanol, Citrisolv and Wax embedding steps. Users are able to use established processing protocols or determine their own unique protocol.

**Tissue Tek:** Available to complete the embedding process of tissue into molds appropriate for tissue size. Paraffin wax used to embed tissue followed by a cooling station to solidify wax.



Leica CM1950  
Cryostat



**Microtome tissue cutting station:** Available for use to section paraffin embedded tissue to precise section thickness. Users are to provide their own cutting blades.

Contact Mary Hamer for training for all instruments.  
[mary.hamer@medsch.ucr.edu](mailto:mary.hamer@medsch.ucr.edu)