

# Instrumental

OCTOBER 2024

*A Message from Dr. Keller*



Dear Rogel Cancer Center Members,

With each quarterly distribution of this newsletter, we strive to bring you exciting updates and information about our Shared Resources. While we enjoy sending you these communications, it's time we heard back from you!

In order to establish touchpoints with all our users in the quickest way possible, we have created a Single Answer Survey.

One question, one answer, once per quarter.

[What is a single technology, service, or piece of instrumentation that you need for your research, but do not have access to?](#)

*Let us know!*

**Evan T. Keller, D.V.M., Ph.D.**

*Associate Director for Shared Resources*

SERVICE SPOTLIGHT



The Cell and Tissue Imaging Shared Resource (CTI-SR), also known as the [BRCF Microscopy Core](#), has provided consistent support for Rogel members seeking access to cutting-edge light and electron microscopy equipment and expertise. CTI-SR operates eight high-end imaging systems across three campus locations (BSRB, Med Sci II, NCRC) providing convenient access to our researchers.

The SR recently [announced](#) the addition of [Gary Luker, M.D.](#) as Faculty Director effective July 1, 2024. He joins Managing Director, [Jennifer Peters, Ph.D.](#), as part of the leadership team. Together, they seek to add new instrumentation, technical expertise, services, and educational opportunities to increase the number of investigators integrating imaging and image analysis into their research. Dr. Luker's experience and expertise utilizing model systems for cancer biology and molecular imaging will undoubtedly benefit Rogel members who use advanced imaging tools in their cancer investigations.

In August, Dr. Luker and Dr. Peters hosted an Open House of the newly renovated NCRC facility (pictured). Users were able to tour the location and learn about available Nikon technologies including the W1-SoRa, an inverted spinning disk confocal system for imaging of live samples and the A1si inverted confocal microscope with a spectral detector for imaging dyes with highly overlapping emission profiles.

## NEWS & UPDATES



### Flow Cytometry adds Aurora and retires Fortessa

The **Flow Cytometry Shared Resource (FLOW-SR)** has added a [Cytex Aurora CS Spectral Cell Sorter](#) to the NCRC location (B20-134WD). This cell sorter utilizes the same 5-laser optical bench and SpectroFlo software for ease in transferring assays from analyzer to sorter

The BD Fortessa analyzer in BSRB is being removed from service as of November 1st. The final day to run samples is October 31st. FLOW-SR staff are available to help you transfer assays from the Fortessa to [another platform](#).

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### Former Transgenic Animal Models director to present at workshop

The **NIH Office of Research Infrastructure Programs (ORIP)** invites you to register for an upcoming virtual, free workshop on “Cryopreservation and Other Preservation Approaches for Animal Models.” The workshop will be a series of virtual sessions beginning September 6, 2024, and continuing into 2025.

Thomas Saunders, Ph.D., founding director of the [Transgenic Animal Models Shared Resource](#), will present at Session IV, from 1:00 pm - 5:00 pm, on Wednesday, October 16.

[Register for specific sessions or the entire series.](#)

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### **Flow-SR holds lunch & learn**

Join **Dave Adams**, FLOW-SR managing director, as he speaks on the principles of flow cytometry as well as spectral vs. conventional cytometry.

This seminar will be offered on two separate dates:

- October 21, Noon - 1 p.m., NCRC B300-376
- November 1, Noon - 1 p.m., Med Sci 2, room 3695, North Lecture Hall

Everyone is welcome, and lunch will be provided so be sure to [register](#).

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### **Pharmacokinetics hosts MALDI imaging applications event**

The Pharmacokinetics Shared Resource (PK-SR) is hosting representatives from Bruker Scientific and the University of Michigan to discuss MALDI approaches and their utility in Cancer, Regenerative Medicine, and Drug Discovery & Localization.

This meeting will be held on:

November 12, 9 a.m. - 11:30 a.m.

NCRC B520, Room 1122

Additional information and registration [here](#).



**CDS MEET THE EXPERT**

## CDS meet the expert

[Allison Furgal, Ph.D.](#)

**Statistician Senior, Biostatistics Department**

### What is your area of expertise?

Longitudinal and survival data analysis, joint models, multistate data.

### What types of analyses do you run most frequently?

Logistic regression, factor analysis, mixed models.

### What is your favorite place in Ann Arbor?

The Arb.

### What's your greatest accomplishment at the CDS-SR?

Learning about and implementing multiple imputation in two longitudinal surveys.

### What do you like best about working in the SR?

Working with so many different researchers in different areas of cancer, so I keep learning about both statistics and cancer research.

## Genetic Counseling, Testing, and Family Communication after Breast Cancer

Cancer Data Science Shared Resource (CDS-SR) analysts [Paul Abrahamse, M.S.](#), and **Allison Furgal, Ph.D.** were instrumental members of the multidisciplinary team spearheading a recent publication in the Journal of Clinical Oncology.

Read the full manuscript: [Genetic Counseling, Testing, and Family Communication Into Survivorship After Diagnosis of Breast Cancer](#)

See also:

<https://www.michiganmedicine.org/health-lab/many-breast-cancer-survivors-dont-receive-genetic-testing-despite-being-eligible>

**M-LINE** 800-962-3555 | **BLOG** michiganhealthlab.org

**INTRANET** med.umich.edu/i/cancer/index.html

