

Instrumental

A Rogel Cancer Center Shared Resources Newsletter

OCTOBER 2020

[P30 Citation Language](#)

[MiCORES Services](#)

A message from associate
director for Shared
Resources, Evan Keller,
D.V.M., Ph.D.



Dear colleagues,

I am pleased to present the first edition of the Rogel Cancer Center Shared Resources newsletter.

In each of our quarterly installments, we will provide an overview of the services, expertise, and technologies available within our 13 Rogel Cancer Center-supported facilities and demonstrate how they are uniquely positioned to support the scientific endeavors of our cancer research community.

We will also use this as an opportunity to share information regarding specialized technologies elsewhere on campus, upcoming opportunities including training and seminars, internal and external funding mechanisms, and of course, the best way to acknowledge our Shared Resource in your publications and presentations.

Thank you,

SERVICE SPOTLIGHT

Pharmacokinetics Shared Resource

Transforming a molecule into a medicine requires a complete understanding of how a compound enters and leaves an organism. We have state of the art instruments to measure drugs and metabolite concentrations in any biologic and non-biologic matrix.



The Pharmacokinetics Shared Resource Team

Do you need to determine the half-life of your compound or stability in biological matrices, where it goes, and what dose, route and the administration frequency? If you need help with the design of a pharmacokinetic (PK) study or exposure-response study we are the people to consult.

Services:

Bio-analysis & LC-MS

- Mass spectrometry (LC-MS) analysis of drug/compound concentration in biological specimens.

Lead Optimization

- Drug metabolism studies, including enzyme identification, inhibition, and induction.

Pre-Clinical Studies

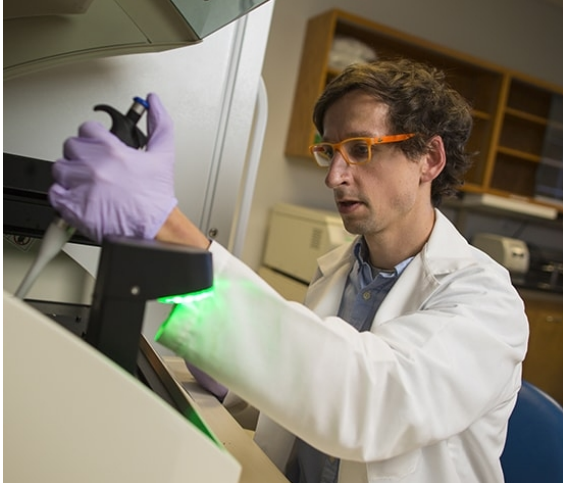
- We perform oral bioavailability, pharmacokinetic, and bio-distribution studies in animal models.

Clinical Studies

- We assist in designing early phase clinical trials that involve assessment of exposure-response relationships.

[View an informational flyer here.](#)

The Pharmacokinetics (PK) Shared Resource (SR) has helped design and implement our complex timed animal studies as well as measured concentration of compounds in clinical trial samples (plasma, CSF) with excellent quality and efficiency. Because of this, the PK resource was selected as the site for a multi-site international consortium trial for measurement of tissue penetration



in human brain tumor samples.
- [Carl Koschmann, M.D.](#), speaking on his experience with the PK SR

OTHER NEWS

Recent Awards

[Jeanne Stuckey, Ph.D.](#), Managing Director, Structure and Drug Screening Shared

Resource: NIHOD S10 (\$1.4M) “Acquisition of a High Flux Single Crystal X-ray Diffraction System”

New Leadership

[Nils Walter, Ph.D.](#), Francis S. Collins Collegiate Professor of Chemistry, Biophysics and Biological Chemistry, joined the Cell and Tissue Imaging (a.k.a. BRCF Microscopy Core) Shared Resource as Faculty Director, effective April 1, 2020.



[Read the full announcement here.](#)

Funding Opportunity - [Research Specialist Award \(R50\)](#)

The Research Specialist Award is designed to encourage the development of stable research career opportunities for exceptional scientists who want to continue to pursue research within the context of an existing NCI-funded basic, translational, clinical, or population science cancer research program, but not serve as independent investigators.

These scientists, such as researchers within a core/shared resource/central scientific support, are vital to sustaining the biomedical research enterprise. The Research Specialist Award is intended to provide salary support and sufficient autonomy so that individuals are not solely dependent on NCI grants held by others for career continuity.

[Applications are due January 4, 2021.](#)

NEW EQUIPMENT

Zeiss Lattice Light Sheet Microscope – Cell and Tissue Imaging

Lattice light sheet uses a thin sheet of light to rapidly and gently collect high-resolution fluorescence images with exquisite sub-cellular detail. This system is designed for high-resolution, high speed imaging of cell cultures and the superficial layers of small embryos with virtually no photobleaching or phototoxicity.



This device is free to use until 2021.

[Read the full announcement here.](#)

We want to hear your feedback!

[Please submit your thoughts about our new internal emails here.](#)

Please forward this message to your fellow cancer center colleagues.

[They can subscribe to these messages here.](#)



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