

Instrumental

A Rogel Cancer Center Shared Resources Newsletter

JUNE 2021

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News and information
about Shared Resources
for Rogel Cancer Center
members



SERVICE SPOTLIGHT

Health Communications Shared Resource

The Rogel Cancer Center Health Communications (HC) Shared Resource (SR) is comprised of an interdisciplinary team of behavioral and communications scientists, designers and graphic artists, as well as technologists and programmers who work collaboratively to create user-centered interventions. The HC SR is physically and administratively located within the Center for Health Communications Research (CHCR).

CHCR focuses on intervention content development (writing, scripting, survey development, etc.) as well as coding and tailoring logic. Interventions are designed with the experience of the user (study participant) in mind and include all aspects of system development you would expect including



Center for
Health
Communications
Research

databases, networks and system security.

Having developed more than 200 health communication intervention systems over the past 25 years, exclusively in the grant-based medical research space, CHCR is especially knowledgeable when it comes to the constraints and purpose of medical research and how grant-based studies work. They have helped beginning researchers create small prototypes with seed funding or K awards to help them get started to move on to larger sized grant projects.

[To read more about working with CHCR, click here.](#)

To get started on a project, please [reach out to Elizabeth Hershey](#) or use [CHCR's contact form](#).

[View some of CHCR's featured work in more detail by clicking here.](#)

NEWS AND UPDATES

Changes to Preclinical Imaging and Computational Analysis Shared Resource; new leadership announced



We are pleased to welcome [Brian Ross, Ph.D.](#), as director of our newly named Preclinical Molecular Imaging (PMI) Shared Resource. Dr. Ross is the long-standing director of the Center for Molecular Imaging in the Department of Radiology. His research focuses on the use of molecular imaging instrumentation to allow for investigations of cancer growth and response to therapy. We are delighted to have Dr. Ross join our leadership team and welcome his experience and vision as we usher this shared resource into its next chapter.

We also wish to recognize and thank outgoing director Craig Galban, Ph.D., for his leadership and engagement. We are grateful for his outstanding service and wish him the best in his continuing research endeavors.

Recently funded S10 Grants

S10OD028456

Notting Hill Devices Permetium Multimodal Imaging System
PI: Brian Ross

An NIH S10 Instrumentation grant application was recently awarded for the PMI SR to purchase a Notting Hill Devices Preclinical Scanner.

Applications include assessment of radiation

therapy effects on lung parenchyma injury in form of acute radiation pneumonitis or late fibrosis in lung carcinoma and other primary lesions where the lung might be irradiated, such as breast carcinomas or lymphomas.



Additional applications include for example, assessment of acute or chronic pulmonary graft versus host disease (GVHD) following hematopoietic stem cell transplantation.

The 4DX instrument, which is one of only four installed world-wide, will allow Rogel investigators to perform unprecedented quantitative imaging of lung function and vascular changes in small animals. It is anticipated that this equipment will be available to investigators through the PMI SR beginning Q4 2021. We are excited to provide Rogel investigators with a paradigm change in lung injury research and diagnostics.

S100D030275

Compute cluster for in vitro and in situ analysis of molecular machines

PI: Melanie Ohi

The Cryo-EM facility, housed at the Life Sciences Institute, uses automated data acquisition and streamlined image processing protocols for high-throughput structural determination of biological molecules using both single-particle and cryo-electron tomography (cryo-ET) strategies. An S10 grant was recently awarded to replace the aging computational systems, and develop a robust computing infrastructure that will enable rapid structure determination on a range of projects that span single particle analysis to cryo-electron tomography.

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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