



BADGERCONNECT RESEARCH SERVICES FAIR

Thursday, October 26 • 11:30 am – 4:30 pm

UW Biotechnology Center Atrium – 425 Henry Mall

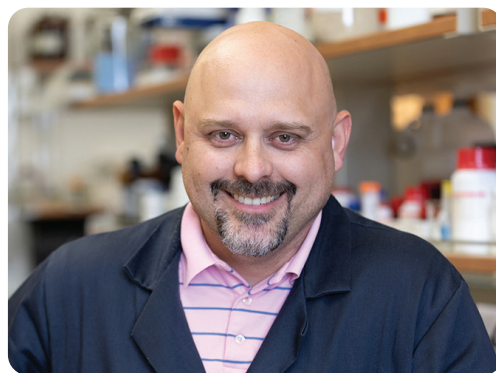
Designed for all life science researchers across the UW-Madison campus

Invited Research Talk

1:30 – 2:15 pm, Biotechnology Center – Auditorium

Development of Radiopharmaceutical Agents for Cancer Theranostics

Reinier Hernandez, PhD, Assistant Professor,
Medical Physics
UW School of Medicine and Public Health



Panel Discussion

2:25 – 3:15 pm, Biotechnology Center – Auditorium

Seeing the Unseeable: Image and Image Analysis Resources for Investigators

Participating cores include:

- Small Animal Imaging & Radiotherapy Facility
- Translational Research Initiatives in Pathology
- Experimental Animal Pathology Lab
- Clinical Research Imaging Core
- Flow Cytometry Laboratory
- Vision Research Core

Workshop Sessions

**12 – 12:30 pm &
12:45 – 1:15 pm**

Room numbers will be posted at the event

Networking Reception

3:15 – 4:30 pm, Biotechnology Center – Atrium

Light refreshments and drinks provided

Hosted by:

UW Carbone Cancer Center,
UW School of Medicine and Public Health and UW Biotech Center

To learn more and to register for FREE:
cancer.wisc.edu/research/badgerconnect

Questions?
badgerconnect@cancer.wisc.edu



BadgerConnect 2023 Research Services Fair

October 26th, 2023



11:30 AM – 4:30 PM, UWBC Atrium

Agenda

11:30a – 12:00p Registration/Networking



Registration table and networking at Booths open at 11:30am.

12:00 – 12:30pm Workshop Session I

Topic	UW Research Service & Industry Partner	Room #
Analyzing SAIRF Multi-modal Imaging data Using Imalytics Preclinical Software	Small Animal Imaging & Radiotherapy Facility with Gremse-IT GmbH 	1111
Intelligent Panel Design in Flow Cytometry Using Machine Learning	Flow Cytometry Laboratory	1360
X Marks the Spot: Unearthing New Insights with the NovaSeq X	DNA Sequencing Core with Illumina 	2116

15 Minute Break and Networking

12:45 – 1:15pm Workshop Session II

Topic	UW Research Service & Industry Partner	Room #
Limit your Genomic 'Screen Time': Pooled lentiCRISPR Screening for Target Identification	Advanced Genome Editing Laboratory with Millipore-Sigma 	1111
How Can We CytAssist You with Spatial Transcriptomic?	Gene Expression Center with 10X Genomics 	1360

15 Minute Break and Networking

1:30 – 3:15pm Invited Research Talk + Panel Discussion in Auditorium (Rm 1111)

1:30 - 1:35pm Welcome – Charles (Chuck) Konsitzke, UW Biotech Center Administrative Director

1:35 – 2:15pm Invited Research Talk - Dr. Reinier Hernandez presents "Development of Radiopharmaceutical Agents for Cancer Theranostics"

10 Minute Break

2:25 – 3:15pm Panel Discussion – Join a panel of six research services to discuss "Seeing the Unseeable: Image and Image Analysis Resources for Investigators"

3:15 – 4:30pm Networking Reception

Networking at Booths in the Atrium, with light appetizers (GF and VEG options) and soda/beer/wine

Visit our [BadgerConnect webpage](#) to view pre-recorded Core Flashtalk videos and Tutorial videos!

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Presentation and Workshop Descriptions

INVITED TALK – “development of Radiopharmaceutical Agents for Cancer Theranostics”

Presented by Dr. Reinier Hernandez

Radiopharmaceutical agents are a systemic radiation therapy modality with incredible potential for treating advanced cancers. Our laboratory leads several efforts to develop radiopharmaceuticals as single agents or in treatment combinations for multiple cancers, including prostate, renal, melanoma, and pediatric cancers. These collaborative efforts are supported by a multidisciplinary team of scientists and physician-scientists and enabled by key resources available through several core facilities.

PANEL DISCUSSION – “Seeing the Unseeable: Image and Image Analysis Resources for Investigators” In this panel session comprised of multiple UW imaging experts, we will discuss multimodality imaging and image analysis applications available at UW-Madison. Each shared resource lab will present their services followed by a Q&A session. Please feel free to pose your questions and challenges to the panel.

WORKSHOPS:

Analyzing SAIRF Multi-modal Imaging Data Using ImaLytics Preclinical Software

Presented by Small Animal Imaging & Radiotherapy Facility with Industry Partner Gremse-IT GmbH

In this workshop, Felix Gremse, of Gremse-IT will illustrate the powerful capabilities and diverse applications of multi-modal, high-resolution, and non-invasive imaging in the UWCCC Small Animal Imaging & Radiotherapy Facility (SAIRF) that can enhance your research through the use of ImaLytics Preclinical software.

Intelligent Panel Design in Flow Cytometry Using Machine Learning

Presented by Flow Cytometry Laboratory

This workshop will walk through the use of artificial intelligence (AI) to assist in designing multi- and high-parameter Flow cytometry panels.

Limit your Genomic ‘Screen Time’: Pooled lentiCRISPR Screening for Target Identification

Presented by Advanced Genome Editing Laboratory with Industry Partner Millipore-Sigma

This workshop will discuss how you can use pooled lentiCRISPR screening to drive your research forward, how pooled lentiCRISPR screening works, and the resources available to you. We will also briefly discuss following up with target validation.

How Can We CytAssist You with Spatial Transcriptomic?

Presented by Gene Expression Center with 10X Genomics

The UWBC just added a new Service: Spatial Transcriptomic. Assessing gene expression with morphological context is critical to our understanding of biology and the progression of disease. The Visium platform has enabled researchers to map the whole transcriptome for entire H&E- or immunofluorescently stained fresh frozen or FFPE tissue sections with morphological context. Don’t miss out on important biology—analyze entire tissue sections rather than predefined regions of interest. Please come join us to learn how Spatial Transcriptomic performed by the Biotech Center can advance your research.

X Marks the Spot: Unearthing New Insights with the NovaSeq X

Presented by DNA Sequencing Core with Illumina

This workshop will talk about the newest NGS instrument, the NovaSeq X-Plus, and its capabilities and cost savings for NGS. We will also share the UW Core offerings as it brings on this new technology at the UWBC DNA Sequencing Core.

Participating UW-Madison Research Services	Pre-recorded Core Flashtalk	Networking Reception	Panel Discussion
Advanced Genome Editing Laboratory https://genomeediting.biotech.wisc.edu/service/	✓	✓	
Analytical Instrumentation Mass Spec. Facility https://aic.sop.pharmacy.wisc.edu/	✓	✓	
Animals Model Core https://animalmodels.biotech.wisc.edu/		✓	
BioBank https://cancer.wisc.edu/research/resources/tsb/biobank/		✓	
Bioinformatics Resource Center https://bioinformatics.biotech.wisc.edu/	✓	✓	
Cancer Metabolomics and Proteomics https://cancer.wisc.edu/research/resources/camp/		✓	
Cancer Pharmacology Lab https://cancer.wisc.edu/research/resources/ddc/cancer-pharmacology/	✓	✓	
Circulating Biomarker Core https://cancer.wisc.edu/research/resources/cbc/		✓	
Clinical Research Imaging Core https://cancer.wisc.edu/research/resources/imaging/		✓	✓
Data Science Hub http://datascience.wisc.edu/hub		✓	
DNA Sequencing Core http://dnaseq.biotech.wisc.edu/	✓	✓	
DoS Histology Core https://uwmadison.ilabsolutions.com/service_center/show_external/449	✓	✓	
Experimental Animal Pathology Laboratory https://cancer.wisc.edu/research/resources/tsb/epl/	✓	✓	✓
Flow Cytometry Laboratory https://cancer.wisc.edu/research/resources/flow/		✓	✓
Gene Expression Center https://gec.biotech.wisc.edu/	✓	✓	
Mass Spectrometry Facility https://massspec.biotech.wisc.edu/		✓	
Research Data Services https://researchdata.wisc.edu/	✓	✓	
Small Animal Imaging and Radiotherapy Facility http://cancer.wisc.edu/sairf	✓	✓	✓
Small Molecule Screening Facility https://cancer.wisc.edu/research/resources/ddc/smsf/	✓	✓	
Stable Isotope Energy Metabolism Analysis https://irms.biotech.wisc.edu/	✓	✓	
Survey of the Health of Wisconsin https://show.wisc.edu/		✓	
Translational Research Initiatives in Pathology https://research.pathology.wisc.edu/trip-home/	✓	✓	✓
UWBC BioGarage https://biogarage.biotech.wisc.edu	✓	✓	
UW-Madison Public Access Service https://pas.wisc.edu		✓	
Vision Research Core https://core.opth.wisc.edu/	✓	✓	✓

BadgerConnect 2023 Research Services Fair Booths

Booth #	Participating Research Service or Industry Partner
1	Research Data Services
2	UW-Madison Public Access Service
3	Bioinformatics Resource Center
4	Survey of the Health of Wisconsin
5	Stable Isotope Energy Metabolism Analysis
6	Data Science Hub
7	Illumina, Inc
8	DNA Sequencing Core
9	Qiagen
10	Gene Expression Center
11	10x Genomics
12	MilliporeSigma
13	Advanced Genome Editing Laboratory
14	Integrated DNA Technologies, Inc
15	Animal Models Core
16	BioBank
17	Circulating Biomarker Core
18	UWBC BioGarage
19	Mass Spectrometry Facility
20	Cancer Metabolomics and Proteomics
21	Thermo Fisher Scientific
22	Analytical Instrumentation Center - Mass Spectrometry
23	Cancer Pharmacology Lab
24	Small Molecule Screening Facility
25	BioLegend
26	Flow Cytometry Lab
27	Leinco Technologies, Inc
28	Vision Research Core
29	Translational Research Initiatives in Pathology Lab
30	Akoya Biosciences
31	Experimental Animal Pathology Lab
32	Newcomer Supply
33	DoS Histology Resource Core
34	Clinical Research Imaging Core
35	Small Animal Imaging & Radiotherapy Facility
36	Gremse-IT GmbH

2023 BadgerConnect Venue
UW-Madison
Biotechnology Center
425 Henry Mall*

Registration, Booths, Reception – Atrium
Talk, Panel – Rm 1111
Workshops – Rms 1111, 1360, 2116

* [Link here for directions to UWBC](#)

