



**NCI Virtual Meeting via WebEx Event | June 16-17, 2021**

**June 16, 2021, Day 1, EDT**

- 10:00 am Introduction**  
Huiming Zhang, PhD, DCTD, NCI
- 10:05 am Welcome**  
Janet Eary, MD, Associate Director, DCTD, NCI

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**Part I CIRP Program**  
**Moderator:** Huiming Zhang, PhD, NCI

**10:10 am Session I CIRP Program and Individual Teams**

- CIRP Status Update**  
Huiming Zhang, PhD, DCTD, NCI
- 10:20 am New CIRP Team Presentation**  
  
**CO-CLINICAL QUANTITATIVE IMAGING OF SMALL CELL NEUROENDOCRINE PROSTATE CANCER USING HYPERPOLYZED 13C MRI**  
John Kurhanewicz, PhD, University of California at San Francisco
- 10:45 am New Associate Member Presentation**  
  
**DEVELOPMENT OF AN OPEN-SOURCE PRECLINICAL IMAGING INFORMATICS PLATFORM FOR CANCER RESEARCH**  
Kooresh Shoghi, PhD, Washington University at St Louis
- 11:10 am Established CIRP Team Progress**  
  
**UNIVERSITY OF MICHIGAN QUANTITATIVE CO-CLINICAL IMAGING RESEARCH RESOURCE**  
Brian Ross, PhD, University of Michigan
- 11:35 am INTEGRATING OMICS AND QUANTITATIVE IMAGING DATA IN CO-CLINICAL TRIALS TO PREDICT TREATMENT RESPONSE IN TRIPLE NEGATIVE BREAST CANCER**  
Mike Lewis, PhD, Baylor College of Medicine

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**12:00 pm Lunch Break**

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**12:40 pm Established CIRP Team Progress**

**12:40 pm MDACC PREDICT**  
Charles Manning, PhD, MD Anderson Cancer Center

**1:05 pm PENN QUANTITATIVE MRI RESOURCE FOR PANCREATIC CANCER**  
Rong Zhou, PhD, University of Pennsylvania

**1:30 pm THE DUKE PRECLINICAL RESEARCH RESOURCES FOR QUANTITATIVE IMAGING BIOMARKERS**  
Cristian Badea, PhD, Duke University

**1:55 pm WASHINGTON UNIVERSITY CO-CLINICAL IMAGING RESEARCH RESOURCE**  
Kooresh Shoghi, PhD, Washington University at St Louis

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**2:20 pm Break**

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**2:35 pm Session II Demonstration of Web-Accessible Research Resources**  
**Moderator:** Huiming Zhang, PhD, NCI

**2:35 pm WU-C2IR2 Web-Resource Demo**  
Kooresh Shoghi, PhD, Washington University at St Louis

**3:00 pm Voxport- A Multimodal Image Repository for Preclinical Imaging Research**  
G Allan Johnson, PhD, Duke University

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**3:25 pm Session III CIRP Power Pitch (Poster Briefing)**  
**Moderator:** Charles Manning, PhD, MD Anderson Cancer Center  
Rong Zhou, PhD, University of Pennsylvania

Please preview pre-recorded videos at **NIH Box** two weeks prior.  
In this live session, present 1 slide overview ~2 mins.  
Discussions 60 mins.

**5:05 pm End of the 1<sup>st</sup> day**

# **June 17, 2021, Day 2, EDT**

## **Part II CIRP Network and Working Groups**

- 10:00 am**    **Session IV CIRP Network, Status and Progress**  
**Moderator:** Charles Manning, PhD, MD Anderson Cancer Center
- 10:00am**    **CIRP Network Update**  
Charles Manning, PhD, MD Anderson Cancer Center
- 10:10 am**    **Session V Animal Model & Co-Clinical Trial (AMCT) Working Group**  
**Moderator:** Mike Lewis, PhD, Baylor College of Medicine
- 10:10 am**    **Presentation**  
**Emerging Models of Humanized Mice for Biomedical Research**  
Leonard Shultz, PhD, Jackson Laboratory
- 10:40 am**    **Short Team-Centric Update**  
Mike Lewis, PhD, Baylor College of Medicine
- 11:05 pm**    **Round Table Discussions**  
Mike Lewis, PhD, Baylor College of Medicine  
Gary Luker, MD, University of Michigan
- 11:40 am**    **Session VI Imaging Acquisition & Data Process (IADP) Working Group**  
**Moderators:** Tom Chenevert, PhD, University of Michigan  
Seth Gammon PhD, MD Anderson Cancer Center
- 11:40 am**    **IADP Working Group Activities Review**  
Tom Chenevert, PhD, University of Michigan
- 12:10 pm**    **Presentations**  
**Methods to Lower Dose in Preclinical/Clinical CT**  
Darin Clark, PhD, Cristian Badea, PhD, Duke University
- 12:30 pm**    **Acquisition Acceleration Technologies in Preclinical/Clinical MRI**  
Stephen Pickup, PhD. University of Pennsylvania
- 12:50 pm**    **Advances in Quantification of Photoacoustic Imaging *in Vivo***  
Richard Bouchard, PhD, MD Anderson Cancer Center
- 1:00 pm**    **Photoacoustic Imaging Applications**  
Marty Pagel, PhD, MD Anderson Cancer Center

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## **1:10 pm    Lunch Break**

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**1:50 pm**      **Session VII Informatics & Outreach (IMOR) Working Group**  
**Moderators:** Kooresh Shoghi, PhD, Washington University at St Louis  
Daniel Rubin, MD, Stanford University

**1:50 pm**      **Working Group Activity Updates**  
**Update on Web-Accessible Research Resource**  
Kooresh Shoghi, PhD, Washington University at St Louis

**2:00 pm**      **Update on Small Animal DICOM & Metadata**  
Kooresh Shoghi, PhD, Washington University at St Louis

**2:10 pm**      **Presentation and Discussion re Interoperability & AIMS**  
Daniel Rubin, MD, Stanford University

**2:40 pm**      **Presentations**  
**Moderator:** Kooresh Shoghi, PhD, Washington University at St Louis

**2:40 pm**      **ePAD**  
Daniel Rubin, MD, Stanford University

**2:53 pm**      **Integrative Imaging Informatics for Cancer Research**  
Daniel Marcus, PhD, Washington University at St Louis

**3:06 pm**      **RadxTools for Assessing Tumor Treatment Response on Imaging**  
Satish Viswanath, PhD, Case Western Reserve University

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**3:20 pm**      **Session VIII CIRP Network: Integration Issues from Working Groups**  
**Chair & Moderators:** Charles Manning, PhD, MD Anderson Cancer Center  
Rong Zhou, PhD, University of Pennsylvania

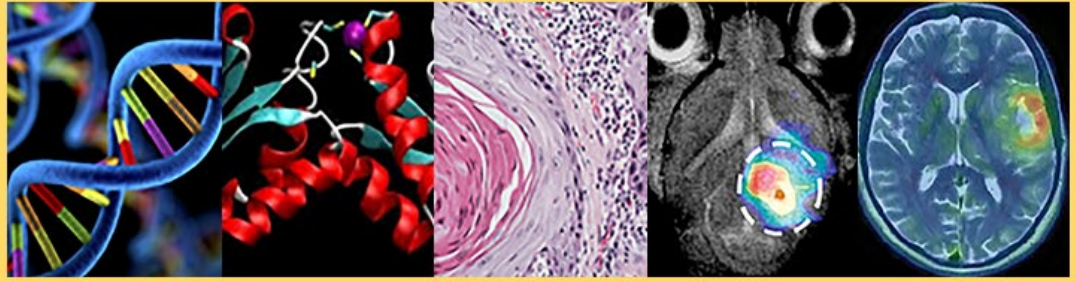
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**Part III**      **CIRP Management and Business**

**3:30 pm**      **Session IX Business Meeting**

**All SC Members and NCI CIRP PDs**  
**Chair/moderator:** Charles Manning, PhD, MD Anderson Cancer Center  
Rong Zhou, PhD, University of Pennsylvania  
Huiming Zhang, PhD, NCI

**4:00 pm**      **End of the 2<sup>nd</sup> day.**



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### **Power Pitch for CIRP Posters, 3:25 - 5:05 pm, June 16, 2021**

1. **A co-clinical trial in an autochthonous mouse model of soft tissue sarcoma suggests no benefit from addition of anti-PD-1 therapy to standard of care radiotherapy and surgical resection**  
Rutul Kumar Patel, Yvonne M. Mowery, et al., Duke University
2. **Hyperpolarized <sup>13</sup>C MR imaging of metastatic prostate cancer murine models**  
Shubhangi Agarwal, Jinny Sun, et al., University of California at San Francisco
3. **MR Imaging of murine tibia for co-clinical studies of myelofibrosis**  
Ghoncheh Amouzandeh, Kevin Heist, et al., University of Michigan
4. **MRI metrics monitor bone marrow therapeutic response in a mouse myelofibrosis model**  
Tanner Robison, Manisha Solipuram, et al., University of Michigan
5. **Gene signature associated with ASCT2 inhibitor efficacy against colorectal cancer**  
Seong-Woo Bae, Allison S. Cohen, et al., MD Anderson Cancer Center, Vanderbilt University
6. **Imaging characterization of NCI Patient Derived Model Repository (PDMR) xenografts**  
Paula M. Jacobs, James L. Tatum, Joseph D. Kalen, et al., NCI, Frederick National Laboratory for Cancer Research
7. **Dynamic contrast enhanced MR imaging of the mouse abdomen using stack of stars Sampling**  
Stephen Pickup, Hee Kwon Song, et al., University of Pennsylvania
8. **Abdominal DWI by under-sampled radial acquisition and deep learning reconstruction**  
Yuemeng Li, Yong Fan, et al., University of Pennsylvania
9. **Correlating patterns in tumor cytoarchitecture with multiparametric MR signal in preclinical models of sarcoma**  
Stephanie J. Blocker, James Cook, et al., Duke University
10. **Murine lung nodule detection via deep learning in micro-CT**  
M. D. Holbrook, D. P. Clark, et al., Duke University
11. **Deep learning segmentation of Triple Negative Breast Cancer (TNBC) Patient Derived tumor Xenograft (PDX) and sensitivity of radiomic pipeline to tumor probability boundary**  
Kaushik Dutta, Sudipta Roy, et al., Washington University at St Louis
12. **Advances in pre-clinical and clinical MRI of cancer using experimental and computational models**  
John Virostko, David A. Hormuth, et al., University of Texas at Austin
13. **Integrating omics and quantitative imaging data in co-clinical trials: ePAD platform for extracting and analyzing cancer image features**  
Daniel Rubin, Mete Akdogan, et al., Stanford university, University of Texas at Austin, Baylor College of Medicine