

# Co-Clinical Imaging Research Resources Program (CIRP) 2018 Meeting

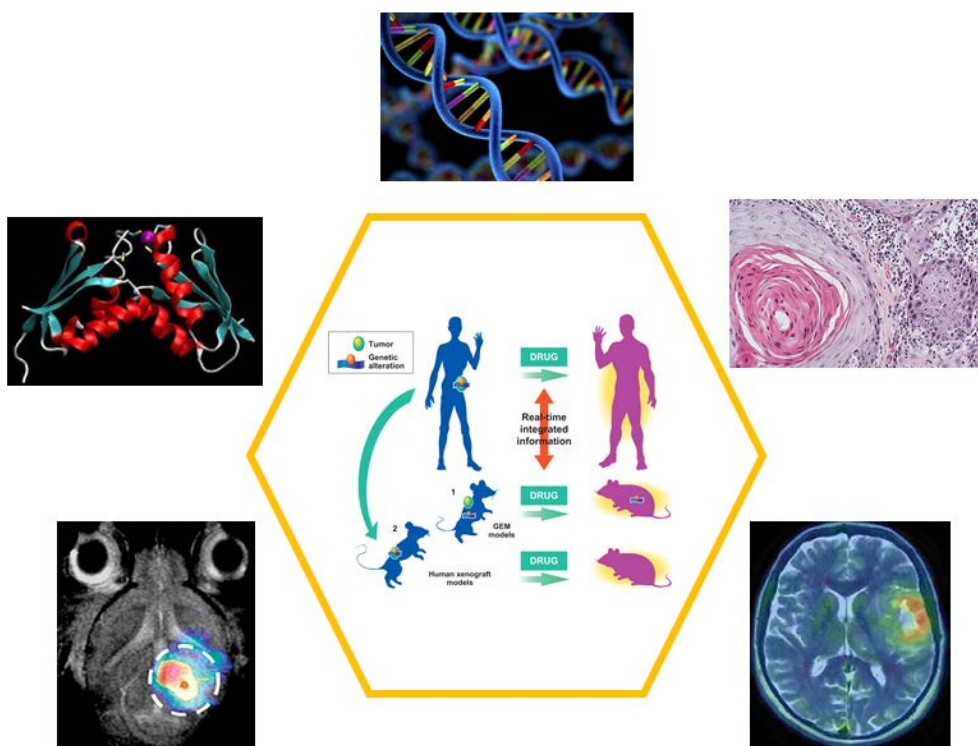
9609 Medical Center Dr., Rockville, MD

NCI Shady Grove Campus

Rm 2-W910/912

12:00 pm – 5:30 pm

May 16, 2018



# Final Agenda

## Annual Meeting

### **Co-clinical Imaging Research Program Network (CIRP)**

May 16, 2018, NCI SG 2-W910/912

**12:00 Introduction to CIRP meeting**

Huiming Zhang, Ph.D.

**12:05 Welcome**

Paula Jacobs, Ph.D.

Associate Director DCTD

NCI

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**Session 1: CIRP program**

Huiming Zhang, Ph.D., Chair

**12:10 Emerging role of CIRP in cancer research**

Huiming Zhang, Ph.D.

**12:30 New CIRP investigator Presentation**

Koresh Shoghi, Ph.D.

Washington University at St. Louis

**1:00 New CIRP investigator Presentation**

Cristian Badea, Ph.D.

Duke University

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**Session 2: CIRP related NCI programs and resources**

Huiming Zhang, Ph.D., Chair

**1:30 Opportunities with the Oncology Models Forum, Nancy Boudreau, Ph.D.**

- 1:45 Research Success Through Team Networking**, Robert Nordstrom, Ph.D., QIN
- 2:00 The Cancer Imaging Archive – exploration of support for archiving and sharing of co-clinical imaging data**, John Freymann, Ph.D.
- 2:15 EDRN and the CIB: Structure, Goals, Network and Resources**, Richard Mazurchuk, Ph.D.,
- 2:30 NCI’s Patient-Derived Models Repository (PDMR)**, Yvonne A. Evrard, Ph.D.

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## **2:45 Break & Posters**

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## **Session 3: Discussions**

Cristian Badea, Ph.D. and Kooresh Shoghi, Ph.D., Chairs

- 3:15 Animal models and co-clinical trials**
- 3:40 Imaging acquisition and data process**
- 4:05 Informatics and outreach**

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## **Session 4: Planning & Business Meeting**

Cristian Badea, Ph.D. and Kooresh Shoghi, Ph.D., Chairs

- 4:30 Business meeting**, CIRP PDs and grantees only,
  - Prioritize Gaps and unmet needs
  - Define roadmap and strategies
  - Organization and plan
  - Actions items

**5:30 End First Day**

## Posters

### 1. **Co-Clinical Imaging Research Resource Program Network (CIRP)**

Huiming Zhang, Cancer Imaging Program, Division of Cancer Treatment & Diagnosis, NCI, NIH, Bethesda, MD, USA.

### 2. **Defining effective preclinical MR and CT imaging to assess soft tissue sarcoma burden as part of a co-clinical trial**

Stephanie Blocker<sup>1</sup>, Matt Holbrook<sup>1</sup>, Yi Qi<sup>1</sup>, Yvonne Mowery<sup>2</sup>, David Kirsch<sup>2</sup>, G. Allan Johnson<sup>1</sup>, Cristian T. Badea<sup>1</sup>. <sup>1</sup>Center for In Vivo Microscopy, Dept. of Radiology, Duke University Medical Center, Durham, NC 27710; <sup>2</sup>Dept. of Radiation Oncology, Duke University Medical Center, Durham, NC.

### 3. **The NCI Imaging Data Commons**

Stephen. D. Jett, Center for Biomedical Informatics and Information Technology (CBIIT), NCI, NIH, Bethesda, MD, USA.

### 4. **Washington University Co-Clinical Imaging Research Resource (WU-C2IR2)**

Joseph Ackerman, Foluso Olabisi Ademuyiwa, Hongyu An, Farrokh Dehdashti, Joel R. Garbow, Daniel Marcus, Richard Laforest, Shunqiang Li, Deborah Novack, Steven Poplack, Amber Salter, Richard L Wahl, Kooresh I Shoghi, Washington University School of Medicine St. Louis, Missouri.

### 5. **The Mouse Hospital and the Co-Clinical Trial: Needed Approaches for the Delivery of Precision Medicine**

John G. Clohessy<sup>1,2</sup>, Vera Mugoni<sup>1</sup>, Marco Bezzi<sup>1</sup>, Elena Levantini<sup>1</sup>, Nicole Pandel<sup>1,2</sup>, Valerie Maymi<sup>1,2</sup>, and Pier Paolo Pandolfi<sup>1</sup>. <sup>1</sup> Cancer Research Institute, Beth Israel Deaconess Cancer Center, Department of Medicine and Pathology, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, Massachusetts, USA<sup>2</sup> Preclinical Murine Pharmacogenetics Facility and Mouse Hospital, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, Massachusetts, USA.

### 6. **University Co-Clinical Imaging Research Resource (WU-C2IR2): Towards Quantitative MRI Characterization of Triple Negative Breast Cancer Patient-Derived Xenograph Tumor Heterogeneity and Therapeutic Response**

Xia Ge, Joel R Garbow, G Larry Bretthorst, Kooresh I Shoghi, and Joseph J H Ackerman, Washington University School of Medicine, St. Louis, Missouri.

### 7. **The National Cancer Institute's Patient-Derived Models Repository (PDMR)**

YA Evrard<sup>1</sup>, MM Gottholm-Ahalt<sup>2</sup>, SY Alcoser<sup>2</sup>, UT Anidi<sup>1</sup>, K Arthur<sup>1</sup>, M Baldwin<sup>1</sup>, LL Blumenauer<sup>2</sup>, C Bonomi<sup>1</sup>, S Borgel<sup>1</sup>, E Bradtke<sup>1</sup>, C Camalier<sup>4</sup>, J Carter<sup>1</sup>, T Chase<sup>1</sup>, A Chen<sup>3</sup>, L Chen<sup>4</sup>, DW Coakley<sup>1</sup>, NE Craig<sup>1</sup>, B Das<sup>4</sup>, V Datta<sup>4</sup>, C Davis<sup>1</sup>, J Davidson<sup>1</sup>, MR DeFreytas<sup>1</sup>, E Delaney<sup>1</sup>, MA Crespo-Eugenii<sup>2</sup>, R Divilbiss<sup>1</sup>, K Dougherty<sup>1</sup>, P Fliss<sup>4</sup>, T Forbes<sup>4</sup>, M Gibson<sup>1</sup>, T Grinnage-Pulley<sup>2</sup>, S Hoffman<sup>1</sup>, L Ileva<sup>1</sup>, P Jacobs<sup>3</sup>, F Jimenez<sup>1</sup>, A Jordon<sup>1</sup>, J Kalen<sup>1</sup>, C Karangwa<sup>1</sup>, C Karlovich<sup>4</sup>, C Mallow<sup>1</sup>, C McGlynn<sup>1</sup>, A Million<sup>1</sup>, M Morris<sup>1</sup>, JE Moyer<sup>1</sup>, M Mullendore<sup>1</sup>, DL Newton<sup>1</sup>, N Patel<sup>1</sup>, R Patidar<sup>4</sup>, K Plater<sup>1</sup>, M Radzysinski<sup>1</sup>, L

Riffle<sup>1</sup>, Larry Rubinstein<sup>3</sup>, J Smith<sup>1</sup>, MB Smith<sup>1</sup>, A Stephens<sup>1</sup>, LH Stockwin<sup>1</sup>, H Stotler<sup>1</sup>, J Stottlemeyer<sup>1</sup>, S Styers<sup>1</sup>, J Tatum<sup>3</sup>, D Trail<sup>1</sup>, MJ Troncatti<sup>1</sup>, T Vilimas<sup>4</sup>, A Wade<sup>1</sup>, A Walke<sup>1</sup>, W Walsh<sup>4</sup>, J Welker<sup>1</sup>, J Yingling<sup>1</sup>, PM Williams<sup>4</sup>, MG Hollingshead<sup>2</sup>, JH Doroshov<sup>3</sup>. <sup>1</sup>Frederick National Laboratory for Cancer Research, Leidos Biomedical Research, Inc., Frederick, MD 21702; <sup>2</sup>Biological Testing Branch, Developmental Therapeutics Program, National Cancer Institute at Frederick, Frederick, MD 21702; <sup>3</sup>Division of Cancer Treatment and Diagnosis, National Cancer Institute, NIH, Bethesda, MD 20892; <sup>4</sup>Molecular Characterization Laboratory, Frederick National Laboratory for Cancer Research, Leidos Biomedical Research, Inc., Frederick, MD 21702.

**8. Washington University Co-Clinical Imaging Research Resource (WU-C2IR2): Expansion of XNAT to support preclinical imaging research**

Ehsan Mahmoudzadeh, Jenny Gurney, Kooresh I Shoghi, Daniel S Marcus, Washington University School of Medicine St. Louis, Missouri.

**9. The Oncology Model Fidelity Score – Measuring Animal Model Fidelity to Human Cancer**

Theodore Goldstein, UC San Francisco, San Francisco, California.

**10. Washington University Co-Clinical Imaging Research Resource (WU-C2IR2): Co-clinical Harmonization of Quantitative FDG-PET Imaging of Tumor Heterogeneity in TNBC PDX**

Timothy D. Whitehead, Madhusudan Savaikar, Richard Laforest, Amber Salter, Richard L Wahl, Shunqiang Li, Kooresh I. Shoghi, Washington University School of Medicine, St. Louis, Missouri.