

ITCR 2016 Annual PI Meeting Presentations

ITCR 2016 Annual Meeting

Notes are available [here](#)

Posters are available [here](#)

Participant List is available [here](#) (ITCR Group Members Only)

Day One

Welcome: Juli Klemm and Aviv Regev

[Keynote](#) Corrie Painter: Empowering Patients to Drive Biomedical Research

Genomics Session I Chair: Joshua Stuart

[Martin Morgan](#) Cancer Genomics: Integrative and Scalable Solutions in R / Bioconductor

[Jingchun Zhu](#) Cloud Based Resource for Data Hosting, Visualization and Analysis Using UCSC Xena

[Jill Mesirov](#) Gene Pattern Notebooks for Cancer Research

[Trey Ideker](#) NDEx – the Network Data Exchange, a Network Commons for Biologists

Imaging Session I Chair: Rebecca Jacobson

[Lee Cooper, David Gutman](#) Advanced Development of an Open Source Platform for Web-Based Integrative Digital Image Analysis in Cancer

[Jayashree Kalpathy-Cramer](#) Informatics Tools for Optimized Imaging Biomarkers for Cancer Research & Discovery

[Andriy Fedorov](#) Quantitative Image Informatics for Cancer Research (QIICR)

[Christos Davatzikos](#) Cancer Imaging Phenomics Software Suite: Application to Brain and Breast Cancer

ITCR Training and Outreach Working Group Lunch Meeting

Lightning Talks for New Groups

[Xiao Xinshu](#) Informatic Tools for Single-Nucleotide Analysis of Cancer RNA-Seq

[Chakra Chennubhotla Srinivas](#) Informatics Tools for Tumor Heterogeneity in Multiplexed Fluorescence Images

[Terry Meehan](#) The PDX Integrator- Re-purposing KOMP2 informatics to Widely Disseminate Data from Patient Derived Xenografts

[Daniel Marcus](#) Integrative Imaging Informatics for Cancer Research

[Hua Xu](#) Advancing Cancer Pharmacoepidemiology Research Through EHRs and Informatics

[Timothy Griffin](#) A Galaxy?Based Multi?Omic Informatics Hub for Cancer Researchers

Genomics Session II Chair: Jill Mesirov

[Brian Haas](#) Trinity: Transcriptome Assembly for Genetic and Functional Analysis of Cancer

[Alexander Krasnitz](#) Computational Framework for Single – Cell Genomics of Tumors

[Xiaole Shirley Liu](#) Developing Informatics Technologies to Model Cancer Gene Regulation

Technical Working Group Demonstration Projects Led by Jayashree Kalpathy-Cramer and Tahsin Kurc

Clinical Session Chair: Aviv Regev

[Guoqian Jiang](#) caCDE-QA: A Quality Assurance Platform for Cancer Study Common Data Elements

Rebecca Jacobson: Advanced Development of TIES – Enhancing Access to Tissue for Cancer Research

[Elmer Bernstam and Funda Meric-Bernstam](#) Informatics to enable routine personalized cancer therapy

[Keynote](#) Eli Van Allen: Clinical interpretation of the cancer genome for precision oncology

Poster Session

Day Two

Opportunities for IMAT – ITCR Collaboration [Tony Dickherber](#) David Hill

Genomics Session III Chair: Trey Ideker

[Rachel Karchin](#) Informatics Tools for High-throughput Analysis of Cancer Mutations

[Bobbie-Jo Webb-Robertson](#) Interactive Informatics Resource for Research-Driven Cancer Proteomics

[Yaoyu Wang](#) Me V: Software for Next Generation Genomic Data Analysis

[Jingshan Huang](#) Omni Search – A Semantic Search Tool for Discovering microRNAs Critical Roles in Human Cancer

Imaging Session II Chair: Xiaole Shirley Liu

[Gordon Harris](#) Extensible Open-Source Zero-Footprint Web Viewer for Oncologic Imaging Research

[Joel Saltz](#) Tools to Analyze Morphology and Spatially Mapped Molecular Data

[Kun Huang](#) Informatics Links Between Histological Features and Genetics in Cancer

[Anant Madabhushi](#) Pathology Image Informatics Platform for Visualization, Analysis and Management

ITCR Technical Working Group Lunch Meeting

Genomics Session IV Chair: Brian Haas

[Benjamin Berman](#) Software Tools for Regulatory Analysis of Large Cancer Methylome Datasets

[Maureen Sartor](#) Integrative Epigenomic / Genomic Profiling and Biomarker Discovery in HPV+ and HPV-

[John Weinstein and Bradley Broom](#) Next Generation Clustered Heat Maps for Fluent, Interactive Exploration of Omic Data

Big Data and EMR Session Chair: Rachel Karchin

Joshua Stuart and Kyle Ellrot: ESCE: Discovering Molecular Processes

[Hong Yu](#) EMR Adverse Drug Event Detection for Pharmacovigilance

Guergana Savova: Cancer Deep Phenotype Extraction from Electronic Medical Records

Imaging Session III Chair: Robert Majovski

[Hugo Aerts](#) Quantitative Radiomics System Decoding the Tumor Phenotype

[Lauren O'Donnell](#) Open Source Diffusion MRI Technology for Brain Cancer Research

Discussion of Collaboration and Integration Opportunities: Led by Joel Saltz and Jill Mesirov

Closing Remarks: Juli Klemm and Aviv Regev