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

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[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

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