

**PRE-MEETING (Monday, Sept 12th)**

Start	End	Type	Description	Presenter
3:00 PM	5:00 PM	Workshop	Imaging Data Commons (IDC) Workshop	ANDREY FEDOROV

**Tuesday, Sept 13th (start/end times are approximate)**

Start	End	Type	Description	Presenter
8:00	8:40	Breakfast		
8:45	8:55	Welcome		
9:00	9:55	Keynote presentation		TBD
9:55	10:40	<b>Theme #1</b>	<b>Deep Learning Technologies in Computational Imaging (10min + 3min Q&amp;A)</b>	
		Talk 1	STAN-CT: Standardization and Normalization of CT images for Lung Cancer Patients	JIN CHEN
		Talk 2	The Federated Tumor Segmentation (FeTS) platform: An intuitive tool facilitating secure multi-institutional collaboration	SPYRIDON BAKAS
		Talk 3	Distributed Learning of Deep Learning Models for Cancer Research	DANIEL RUBIN and JAYASHREE KALPATHY-CRAMER
10:40	11:10	Break	(30min)	
11:10	12:05	<b>Theme #2</b>	<b>Multi-Modal Data Integration (10min + 3min Q&amp;A)</b>	
		Talk 1	Integrative genomic and epigenomic analysis of cancer using long read sequencing	MICHAEL SCHATZ
		Talk 2	Informatics for Functional Integration of Heterogeneous Cancer Genome and Transcriptome Sequencing Data	VAKUL MOHANTY and YUKUN TAN
		Talk 3	Enhance UCSC Xena: extend interactive visualization to ultra-large-scale multi-omics data and integrate with analysis resources	JINGCHUN ZHU
		Talk 4	PROTEAN-CR: Proteomics Toolkit for Ensemble Analysis in Cancer Research	LYDIA KAVRAKI
12:05	1:05	Lunch	(1hr)	
1:05	2:05	<b>Theme #3</b>	<b>Cancer Genomics Analysis Platforms (10min + 3min Q&amp;A)</b>	
		Talk 1	GenePattern and GenePattern Notebook: Integrative Omic Analysis for Cancer Research	MICHAEL REICH
		Talk 2	Advanced development of the Cancer Dependency Map portal (DepMap.org)	JAMES MCFARLAND
		Talk 3	The Integrative Genomics Viewer (IGV) for Cancer Research	JAMES ROBINSON
		Talk 4	Overture: A Multi-Scale Data Platform for Cancer Genomics Research	CHRISTINA YUNG
2:05	3:00	<b>Theme #4</b>	<b>Co-Clinical Data Portals (10min + 3min Q&amp;A)</b>	
		Talk 1	Advancing method benchmarking and data sharing through crowd-sourced competitions in cancer research	JAMES EDDY
		Talk 2	Advancing Our Understanding of Cancer and the Human Microbiome with QIIME 2	GREG CAPORASO
		Talk 3	Patient Derived Cancer Model (PDCM) Finder	ZINA PEROVA
		Talk 4	Development of an Open-Source Preclinical Imaging Informatics Platform for Cancer Research	KOORESH SHOGHI
3:00	3:30	Break	(30min)	
3:30	3:40	Workshop	ITCR Training Network (ITN) overview	CARRIE WRIGHT
3:45	4:15	Lightning talks		TBD
4:15	5:15	Poster session		
6:30	9:30		Social activity at Moulin Lounge (bus will pick-up at hotel at 6pm)	

**Wednesday, Sept 14th (start/end times are approximate)**

Start	End	Type	Description	Presenter
8:00	8:45	Breakfast		
8:45	8:50	Welcome/ Introduction		
8:50	9:00	Talk	<b>Presentation by patient advocate</b>	JO KENNEY
<b>9:00</b>	<b>10:00</b>	<b>Theme #4</b>	<b>Medical Informatics (10min + 3min Q&amp;A)</b>	
		Talk 1	Semi-supervised Algorithms for Risk Assessment with Noisy EHR Data	TIANXI CAI
		Talk 2	Optimizing the Population Representativeness of Older Adults in Cancer Trials	JIANG BIAN
		Talk 3	Extraction of Symptom Burden from Clinical Narratives of Cancer Patients using Natural Language Processing	MELIHA YETISGEN
		Talk 4	Cancer Deep Phenotype Extraction from Electronic Medical Records	HARRY HOCHHEISER
<b>10:00</b>	<b>11:00</b>	<b>Theme #5</b>	<b>Computational Genomics (10min + 3min Q&amp;A)</b>	
		Talk 1	Cancer-specific gene set testing	ROBERT FROST
		Talk 2	Utilizing Bayesian modeling to improve mutational signature inference in large-scale datasets	JOSHUA CAMPBELL
		Talk 3	Advanced development of Lancet, an emerging tool for complex variant calling in cancer genomics	GIUSEPPE NARZISI
		Talk 4	Software and algorithms for elucidating the structure, function, and evolution of extrachromosomal DNA	VINEET BAFNA
<b>11:00</b>	<b>11:30</b>	<b>Break</b>	<b>(30min)</b>	
<b>11:30</b>	<b>12:20</b>	<b>Theme #6</b>	<b>Pharmacology and Liquid DNA (10min + 3min Q&amp;A)</b>	
		Talk 1	Data-driven QSP software for personalized colon cancer treatment	LEILI SHAHRIYARI
		Talk 2	An informatics bridge over the valley of death for cancer Phase I trials of drug-combination therapies	LANG LI
		Talk 3	cfSNV: a software tool for the sensitive detection of somatic mutations from cell-free DNA	WENYUAN LI
		Talk 4	Predicting transcriptional signatures and tumor subtypes from circulating tumor DNA	GAVIN HA
<b>12:20</b>	<b>1:20</b>	<b>Lunch</b>	<b>(1hr)</b>	
<b>1:20</b>	<b>2:20</b>	<b>Theme #7</b>	<b>Single Cell and Spatial Genomics (10min + 3min Q&amp;A)</b>	
		Talk 1	Single-cell and imaging data integration software to spatially resolve the tumor microenvironment	ELANA FERTIG
		Talk 2	Inferring cell state tumor microenvironment maps by integrating single-cell and spatial transcriptomics	ITAI YANAI
		Talk 3	Informatics Tools To Analyze And Model Whole Slide Image Data At The Single Cell Level	GUANGHUA XIAO
		Talk 4	scDECO: A novel statistical framework to identify differential co-expression gene combinations systematically using single-cell RNA sequencing data	YEN-YI HO
<b>2:20</b>	<b>3:15</b>	<b>Theme #8</b>	<b>ImmunoOncology (10min + 3min Q&amp;A)</b>	
		Talk 1	Informatics tools for identification, prioritization and clinical application of neoantigens	MALACHI GRIFFITH
		Talk 2	Curve-free phase I/II clinical trial designs for molecularly targeted agents and immunotherapy	YONG ZANG
		Talk 3	Computational approaches to unravel immune receptor sequencing for cancer immunotherapy	LI ZHANG
		Talk 4	The cancer epitope database and analysis resource	BJOERN PETERS
3:15	3:45	Lightning talks		TBD
<b>3:45</b>	<b>4:15</b>	<b>Break</b>	<b>(30min)</b>	
<b>4:15</b>	<b>5:15</b>	<b>Poster session</b>		
<b>6:30</b>	<b>9:30</b>		<b>Reception at Missouri Botanical Garden (bus will pick-up at hotel at 6pm)</b>	

**POST-MEETING (Thursday, Sept 14th)**

Start	End	Type	Description	Presenter
9:00	12:00 PM	Workshop	ITCR Training Network (ITN) Workshop	CARRIE WRIGHT