

PRE-MEETING (Monday, Sept 12th)

Start	End	Type	Description	Presenter
3:00 PM	5:00 PM	Workshop	Imaging Data Commons (IDC) Workshop, Seminar Room A	ANDREY FEDOROV
7:00 PM	9:00 PM		Evening Meet-Up at Chase Club Hotel Bar	

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

Start	End	Type	Description	Presenter
7:30	8:40	Breakfast/Registration		
8:40	9:00	Welcome		
9:00	9:55	Keynote present	Leveraging the tumor stroma to enhance immunotherapy	SHEILA STEWART
9:55	10:40	Theme #1	Deep Learning Technologies in Computational Imaging (10min + 3min Q&A)	
		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	Theme #2	Multi-Modal Data Integration (10min + 3min Q&A)	
		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	JING CHUN 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	Theme #3	Cancer Genomics Analysis Platforms (10min + 3min Q&A)	
		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)	MIKE BURGER
		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	Theme #4	Co-Clinical Data Portals (10min + 3min Q&A)	
		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 SHOOGHI
3:00	3:30	Break	(30min)	
3:30	3:40	Talk	ITCR Training Network (ITN) overview	CARRIE WRIGHT
3:45	4:15	Lightning talks	1. Ujjwal Baid, 2. Hyemin Um/Thomas DeSilvio, 3. Intekhab Hossain, 4. Jeremy Goecks, 5. Alexander T. Wenzel, 6. Ino de Bruijn	
4:15	5:15	Poster session		
6:45	9:45		Social activity at Moulin Lounge (bus will pick-up at hotel at 6:15pm)	

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

Scientific presentations: Main Auditorium

Lighting talks: Main Auditorium

Poster session: Great Room A & B

Start	End	Type	Description	Presenter
7:30	8:45	Breakfast		
8:45	8:50	Welcome/ Introduction		
8:50	9:00	Talk	Presentation by patient advocate	JO KENNEY
9:00	10:00	Theme #4	Medical Informatics (10min + 3min Q&A)	
		Talk 1	Semi-supervised Algorithms for Risk Assessment with Noisy EHR Data	CHUAN HONG
		Talk 2	Optimizing the Population Representativeness of Older Adults in Cancer Trials	YI GUO
		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
10:00	11:00	Theme #5	Computational Genomics (10min + 3min Q&A)	
		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

ITCR 2022 Program

11:00	11:30	Break	(30min)	
11:30	12:20	Theme #6	Pharmacology and Liquid DNA (10min + 3min Q&A)	
		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
12:20	1:20	Lunch	(1hr)	
1:20	2:20	Theme #7	Single Cell and Spatial Genomics (10min + 3min Q&A)	
		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
2:20	3:15	Theme #8	ImmunoOncology (10min + 3min Q&A)	
		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	1. Huiming Xia, 2. Alexander Getka, 3. Han Liang, 4. Guilherme Del Fiol, 5. Brian Neal, 6. Bassel Ghaddar	
3:45	4:00	Break	(15min)	
4:00	5:00	Poster session		
6:30	9:30		Reception at Missouri Botanical Garden (bus will pick-up at hotel at 6pm)	

POST-MEETING (Thursday, Sept 14th)

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