

## SCIENTIFIC SESSIONS

**Tuesday, September 13<sup>th</sup>**

Sessi on #	Start	End	Type	Description	Moderator/ Presenter
00	8:40	9:00	Welcome/ Introduction	KOORESH SHOGHI JULI KLEMM TIMOTHY EBERLEIN	
01	9:00	9:55	Keynote presentation	<b>Leveraging the tumor stroma to enhance immunotherapy</b> Sheila Stewart, PhD Gerty T. Cori Professor of Cell Biology and Physiology Washington University School of Medicine	
02	9:55	10:40	Theme #1	<b>Deep Learning Technologies in Computational Imaging (10min + 3min Q&amp;A)</b>	<b>DANIEL MARCUS</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 (Virtual)	Distributed Learning of Deep Learning Models for Cancer Research	DANIEL RUBIN and JAYASHREE KALPATHY- CRAMER
	10:40	11:10	Break	Atrium lobby	
03	11:10	12:05	Theme #2	<b>Multi-Modal Data Integration (10min + 3min Q&amp;A)</b>	<b>JULI KLEMM</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	JING CHUN ZHU
			Talk 4	PROTEAN-CR: Proteomics Toolkit for Ensemble Analysis in Cancer Research	LYDIA KAVRAKI
	12:05	1:05	Lunch	Atrium lobby	
04	1:05	2:00	Theme #3	<b>Cancer Genomics Analysis Platforms (10min + 3min Q&amp;A)</b>	<b>OBI GRIFFTH</b>
			Talk 1	GenePattern and GenePattern Notebook: Integrative Omic Analysis for Cancer Research	MICHAEL REICH
			Talk 2 (Virtual)	Advanced development of the Cancer Dependency Map portal (DepMap.org)	MIKE BURGER
			Talk 3 (Virtual)	The Integrative Genomics Viewer (IGV) for Cancer Research	JAMES ROBINSON
			Talk 4 (Virtual)	Overture: A Multi-Scale Data Platform for Cancer Genomics Research	CHRISTINA YUNG
05	2:00	2:55	Theme #4	<b>Co-Clinical Data Portals (10min + 3min Q&amp;A)</b>	<b>KOORESH SHOGHI</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	ANDREW LASSITER	
	2:55	3:20	Break	Atrium lobby		
06	3:20	3:30	Talk	ITCR Training Network (ITN) overview	CARRIE WRIGHT	
07	3:30	4:05	Lightning talks	1. Ujjwal Baid, 2. Hyemin Um/Thomas DeSilvio, 3. Intekhab Hossain, 4. Jeremy Goecks, 5. Alexander T. Wenzel, 6. Ino de Bruijn	JULI KLEMM	
	4:05	4:10	Poster logistics			OBI GRIFFTH
	4:10	5:10	Poster session	Odd numbered posters, Great rooms A & B		
	5:10		Bus will pick-up at shuttle circle adjacent to EPNEC			
	6:30	9:30	Social Activity	Moulin Lounge, Rhone Rum Room (Bus pick-up at hotel at 6:00pm)		

## Wednesday, September 14<sup>th</sup>

Sessi on #	Start	End	Type	Description	Presenter
	8:40	8:50	Welcome/ Introduction	Welcome and introduction of patient advocate, Jo Kenney, by Dr. Richard Wahl	
	<b>8:50</b>	<b>9:00</b>	<b>Talk (Virtual)</b>	<b>Presentation by patient advocate</b>	<b>JOHANNA KENNEY</b>
<b>08</b>	<b>9:00</b>	<b>9:55</b>	<b>Theme #5</b>	<b>Medical Informatics (10min + 3min Q&amp;A)</b>	<b>HARRY HOCHHEISER</b>
			Talk 1 (Virtual)	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 (Virtual)	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>09</b>	<b>9:55</b>	<b>10:50</b>	<b>Theme #6</b>	<b>Computational Genomics (10min + 3min Q&amp;A)</b>	<b>JEREMY GOECKS</b>
			Talk 1 (Virtual)	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
	10:50	11:20	Break	Atrium lobby	
10	11:20	12:15	Theme #7	Pharmacology and Liquid DNA (10min + 3min Q&A)	LYDIA KAVRAKI
			Talk 1 (Virtual)	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 (Virtual)	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
11	12:15	12:20	Elevator Pitch	Winners of elevator pitch competition	BRITTANY MCKELVEY
	12:20	1:20	Lunch	Atrium lobby	
12	1:20	2:15	Theme #8	Single Cell and Spatial Genomics (10min + 3min Q&A)	JENNIFER BEANE
			Talk 1	Identifying molecular signatures of tumor-immune interactions from spatial transcriptomics using latent space factorization	ATUL DESHPANDE
			Talk 2	Inferring cell state tumor microenvironment maps by integrating single-cell and spatial transcriptomics	ITAI YANAI
			Talk 3 (Virtual)	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
13	2:15	3:10	Theme #9	ImmunoOncology (10min + 3min Q&A)	MALACHI GRIFFITH
			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 (Virtual)	The cancer epitope database and analysis resource	BJOERN PETERS
14	3:10	3:45	Lightning talks	1. Huiming Xia, 2. Alexander Getka, 3. Han Liang, 4. Guilherme Del Fiol, 5. Brian Neal, 6. Bassel Ghaddar	JULI KLEMM
	3:45	4:05	Break	Atrium lobby	
	4:05	5:05	Poster session	Even numbered posters, Great rooms A & B	
	5:05		Bus will pick-up at shuttle circle adjacent to EPNEC		
	6:30	9:30	Social Activity	Reception at Missouri Botanical Garden (Bus pick-up at hotel at 6pm) Announce poster award winners	

