NIH — NATIONAL CANCER INSTITUTE
Office of Cancer Clinical Proteomics Research

THE CLINICAL PROTEOMIC TUMOR ANALYSIS CONSORTIUM SCIENTIFIC SYMPOSIUM

TUESDAY SEPTEMBER 22, 2020

A VIRTUAL PUBLIC MEETING
The CPTAC symposium will begin at 10:00 a.m. ET and will conclude at 6:10 p.m. ET

AGENDA

WELCOME (10:00 a.m. – 10:30 a.m.)

10:00 a.m.- 10:15 a.m.	*Opening Remarks* James H. Doroshow, M.D. Deputy Director for Clinical and Translational Research, National Cancer Institute, NIH Director, Division of Cancer Treatment and Diagnosis, National Cancer Institute, NIH
10:15 a.m.-10:30 a.m.	*State of CPTAC (Status Report)* Henry Rodriguez, Ph.D., M.B.A. National Cancer Institute, NIH

SESSION I- Tumor Characterization (10:30 a.m. - 12:00 p.m.)

10:30 a.m. -11:00 a.m.	*Integrated Proteogenomic Characterization Across Major Histological Types of Pediatric Brain Cancer (CPTAC partnership with the Gabriella Miller Kids First Pediatric Research Program)* Francesca Petralia, Ph.D., Icahn School of Medicine at Mount Sinai (Mt Sinai)
11:00 a.m. -11:30 a.m.	*Proteogenomic Analysis of Head & Neck Cancer* Bing Zhang, Ph.D., Baylor College of Medicine (BCM)
11:30 a.m.- 12:00 p.m.	*Proteogenomics Refines Breast Cancer Molecular Subtypes and Therapeutic Targets* Michael Gillette, M.D., Ph.D., Broad Institute
12:00 p.m.- 12:30 p.m.	Lunch and poster viewing

SESSION II - Tumor Characterization (12:30 p.m. - 2:00 p.m.)

12:30 p.m.- 1:00 p.m.	*Glycoproteomic Characterization of Human High-Grade Serous Ovarian Cancer* Hui Zhang, Ph.D., Johns Hopkins School of Medicine
1:00 p.m.- 1:30 p.m.	*Global and Phosphoproteomic Analysis of Acute Myeloid Leukemia (Partnership with BEAT AML Master Clinical Trial)* Brian Druker, M.D., Oregon Health & Science University
1:30 p.m.- 2:00 p.m.	*Progress towards clinical implementation of targeted MRM mass spec-based proteomic assays* Jeff Whiteaker, Ph.D., Fred Hutchinson Cancer Research Center

2:00 p.m. - 2:15 p.m.   **Break** ☕

SESSION III - Data Analysis Tool (2:15 p.m. - 6:10 p.m.)

2:15 p.m.- 2:35 p.m.   CPTAC Analysis Tools Catalog (BCM)

2:35 p.m.- 2:55 p.m.   The CPTAC Python API (Brigham Young University)

Live Demo - Proteomic/Proteogenomic Tools

2:55 p.m.- 3:15 p.m.   PANOPLY: A cloud-based pipeline for automated proteogenomic data analysis (Broad)

3:15 p.m.- 3:35 p.m.   ProTrack: An Interactive Multi-Omics Data Browser for Proteogenomic Studies (Mt Sinai)

3:35 p.m.- 3:55 p.m.   Deep learning-based peptide retention time prediction and its applications (BCM)

3:55 p.m.- 4:15 p.m.   COSMO: A precisionFDA-CPTAC sample labelling challenge project (Mt Sinai/BCM)

4:15 p.m.- 4:35 p.m.   DreamAI: A CPTAC-Dream Imputation challenge project (Mt Sinai/ New York Uni (NYU))

4:35 p.m.- 4:50 p.m.   **Break** ☕

Live Demo - Genomic/Imaging Tools

4:50 p.m.- 5:10 p.m.   CPTAC genomic pipeline organization, tracking, and management (Washington Uni in St. Louis)

5:10 p.m.- 5:30 p.m.   CNVEX tool for CNV analysis (Uni of Michigan)

5:30 p.m.- 5:50 p.m.   Interpreting pathways to discover cancer driver genes with Moonlight (Uni of Miami/BCM)

5:50 p.m. - 6:10 p.m.   Predicting Cancer Subtypes and Molecular Features from Histopathology Images (NYU)

6:10 p.m.   **Adjourn**