
**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 and Translational Studies (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)***
Elie Traer M.D., Ph.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**