

SCIENTIFIC SUMMIT

PROGRAM SCHEDULE



MONDAY, OCTOBER 17, 2022

CHILDREN'S NATIONAL RESEARCH & INNOVATION CAMPUS
WASHINGTON, D.C.

BREAKFAST AVAILABLE

8:15–9:00 AM

DRIVING CBTN GOALS FOR RESEARCH AND DISCOVERY & PRECISION MEDICINE

9:00–9:10 AM

TITLE

PRESENTER

Opening Remarks

Carl Koschmann, *Associate Professor of Pediatric Oncology*
University of Michigan Health
CBTN Scientific Co-Chair

KEYNOTE ADDRESS: FORWARD TOWARDS PRECISION MEDICINE

9:10–9:40 AM

Building a Digital Health Strategy: The First Step in
Precision Medicine

Ken Harris, *Head, Academic Medicine and State/Local
Government Healthcare Providers*
Amazon Web Services

PBTA OVERVIEW: DISEASE & DATA TYPES FOR RESEARCH

9:40–9:55 AM

Creating a Pediatric Brain Tumor Discovery Ecosystem:
Current State and Future Directions

Adam Resnick, *D³b Co-Executive Director*
Children's Hospital of Philadelphia
CBTN Scientific Director

PEDIATRIC BRAIN TUMOR PRECISION MEDICINE CHALLENGES, OPPORTUNITIES & ADVANCEMENTS

9:55–10:55 AM

My Pediatric and Adult Rare Tumor Network (MyPART)

Mary Francis Wedekind, *Center for Cancer Research*
National Cancer Institute

The Zero Childhood Cancer's Digital Precision Medicine
Platform: Scaling Up from High-risk to all Children, Adolescents
and Young Adults with Cancer in Australia

Mark Cowley, *Associate Professor*
Children's Cancer Institute

PNOC027: Functional Precision Medicine for Medulloblastoma

Rob Wechsler-Reya, *Adjunct Professor*
Sanford Burnham Prebys

Computational Screen to Identify Potential Targets for the
CBTN Cohort

Avi Ma'Ayan, *Professor of Pharmacological Sciences*
Icahn School of Medicine at Mount Sinai

BREAK

10:55–11:05 AM

DNA

11:05–12:05 PM

TITLE

PRESENTER

Genetic Origin and Somatic Evolution of Childhood Medulloblastoma

Sebastian Waszak, *Associate Professor of Neurology*
UCSF School of Medicine

Germline Predisposition Across Neuroblastoma and Pediatric Brain Tumors

Sharon Diskin, *Department of Biomedical & Health Informatics*
Children's Hospital of Philadelphia

A Pediatric Brain Tumor Atlas of Genes Deregulated by Somatic Genomic Rearrangement

Chad Creighton, *Co-Director of Cancer Bioinformatics*
Baylor College of Medicine

Circular Extrachromosomal DNA in Childhood cancers

Lukas Chavez, *Assistant Professor*
UC San Diego Health

WORKING LUNCH – TRAINING & NETWORKING OPPORTUNITIES (IN-PERSON)

12:05–1:00 PM

RNA

1:00–1:30 PM

Transcriptional Analysis Identifies Distinct Immune Clusters In Pediatric Nervous System Tumours

Arash Nabbi, *Post-Doctoral Fellow*
University of Calgary

New Methods to Diagnose and Measure Drug Resistance in Childhood Cancer

Adam Shlien, *Department of Paediatric Laboratory Medicine*
Hospital for Sick Children (SickKids)

SINGLE-CELL/SPATIAL TRANSCRIPTOMICS

1:30–2:15 PM

Pro-inflammatory Microglia and the Mesenchymal Transformation of Pediatric Ependymoma

Pablo Gonzalez-Camara, *Assistant Professor of Genetics*
University of Pennsylvania

Project HOPE: Single-cell Studies of Pediatric Glioma

Aaron Diaz, *Assistant Professor of Neurological Surgery*
UCSF Weill Institute for Neurosciences

Single-cell Analysis of Therapy Response in Pediatric High-grade Glioma

Kai Tan, *Director, Center for Single-cell Biology*
Children's Hospital of Philadelphia

DNA METHYLATION

2:15–2:30 PM

The Role of Methylation Profiling in Diagnosis of Central Nervous System Tumors of Childhood

Ken Aldape, *Chief of the Laboratory of Pathology*
National Cancer Institute

PROTEOMICS

2:30–3:15 PM

CPTAC and its Goals for Translational Integration of Proteomics/Proteogenomics

Henry Rodriguez, *Director of the Office of Cancer Clinical Proteomics Research*
National Cancer Institute

Proteomic Analysis to Understand Biology and Disease

Hui Zhang, *Professor of Pathology*
Johns Hopkins Medicine

Proteogenomic Study of Pediatric and AYA Brain Tumors

Pei Wang, *Professor of Genetics and Genomic Sciences*
Icahn School of Medicine at Mount Sinai

BREAK

3:15–3:30 PM

IMAGING

3:30–4:15 PM

TITLE

PRESENTER

Imaging of Tumor Microenvironments in Pediatric Neuro-Oncology, Current Efforts and Future Directions

Ali Nabavizadeh, *Assistant Professor of Radiology*
University of Pennsylvania

Computational Neuroradiology in Pediatric Neuro-Oncology: Towards Integrated Data-Driven Discovery Using CBTN Data

Anahita Fathi Kazerooni, *Research Instructor*
University of Pennsylvania

Every Patient Deserves Their Own Equation

Kristin Swanson, *Mathematical Oncologist*
Mayo Clinic

CLINICAL DATA

4:15–5:00 PM

Transforming How Researchers Share Data: Lessons from the Pediatric Cancer Data Commons

Sam Volchenboum, *Associate Professor of Pediatrics*
University of Chicago Medicine

CBTN: Case Example

Sarah Leary, *Medical Director,*
Pediatric Brain Tumor Program
Seattle Children's Hospital

CLOSING REMARKS

5:00 PM

Closing Remarks & Info for the Evening Program

Michael Prados, *Professor of Neurological Surgery*
UCSF Department of Neurological Surgery
CBTN Scientific Co-Chair

POSTER SESSION

5:30–7:30 PM

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