In association with the AACR Pediatric Cancer Working Group (PCWG) September 25-28, 2025 | The Westin Copley Place | Boston, MA

#### **Conference Cochairs:**

Alanna J. Church, Boston Children's Hospital, Boston, MA Meredith S. Irwin, SickKids, Toronto, ON, Canada Charles W.M. Roberts, St. Jude Children's Research Hospital, Memphis, TN

### Thursday, September 25, 2025

2:00	Registration America Foyer
5:00-5:05 5:05- 5:10 5:10-5:50	Welcome Introduction Keynote: Oncohistones and the 3D Chromatin Code of Cancer Nada Jabado, McGill University, Montreal, Canada America North & Center
5:50-5:55	Introduction
5:55-6:35	Curing the curable: towards global precision medicine in childhood ALL AACR-St. Baldrick's Foundation Pediatric Cancer Research Fellowship Awardee Lecture Shawn HR Lee, National University of Singapore, Singapore America North & Center
6:35- 6:55	Discussion & QA Panel
7:00-9:30	Poster Session A & Opening Reception  America South

### Friday, September 26, 2025

## **Continental Breakfast**

7:00-8:00 a.m.| America Foyer

### Plenary Session 1: Mechanisms underlying childhood cancer

8:00-10:00 a.m.

America North & Center

Session Chair: Liling Wan, Perelman school of Medicine, Philadelphia, PA

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8:00-8:20	Chromatin in cancer: from mechanisms to emerging therapies Charles Roberts, St. Jude Children's Research Hospital, Memphis, TN
8:20-8:30	Discussion/Q&A
8:30-8:50	Targeting intra-tumor heterogeneity and developmental targets in pediatric brain tumors
8.F0 0.00	Mariella G. Filbin, Dana-Farber Cancer Institute, Boston, MA
8:50-9:00	Discussion/Q&A
9:00-9:20	Chromatin-Associated Condensates as Drivers of Pediatric Cancer Liling Wan, Perelman school of Medicine, Philadelphia, PA
9:20- 9:30	Discussion/Q&A
9:30-9:45	CDK8 Inhibition Releases the Muscle Differentiation Block in Fusion-Driven Alveolar RhabdomyosarcomaS*
	Susu Zhang, Dana-Farber Cancer Institute, Boston, MA
9:45- 10:00	Membrane localization mediated by BRAF fusion partners is necessary for transformation of human neural stem cells*  Alexander Zhang, Dana Farber Cancer Institute, Boston, MA

### **Break**

10:00-10:30 a.m. |

## Plenary Session 2: Development in cancer

10:30 a.m.-12:30 p.m. | America North & Center

Session Chair: Pratiti (Mimi) Bandopadhayay, Dana-Farber Cancer Institute, Boston, MA

10:30-10:50	The interplay between brain development and pediatric brain tumors Pratiti (Mimi) Bandopadhayay, Dana-Farber Cancer Institute, Boston, MA
10:50-11:00	Discussion/Q&A
11:00-11:20	<b>Dissecting cell fate transitions in the malignant brain tumour hierarchy</b> Peter B. Dirks, SickKids, Toronto, ON, Canada
11:20-11:30	Discussion/Q&A
11:30-11:50	Targeting (and using) enhancers to control cell state in pediatric cancers Adam D. Durbin, St. Jude Children's Research Hospital, Memphis, TN
11:50-12:00	Discussion/Q&A

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12:00-12:15 **EWS::FLI1 Expression in Human Embryonic Mesenchymal Stem Cells Leads** 

to Transcriptional Reprograming, defective DNA Damage Repair and Ewing

Sarcoma.\*

Jaume Mora, Pediatric Cancer Center Barcelona, Barcelona, Spain

12:15- 12:30 KAT6A/B are therapeutic targets to enhance the efficacy of differentiation

therapy and GD2 immunotherapy in neuroblastoma\*

Nina Weichert-Leahey, Dana-Farber Cancer Institute, Boston, MA

#### Lunch Break (lunch on your own)

12:30-2:30 p.m.

Plenary Session 3: From targets to trials: Rethinking how we design child-first medicine

Organized by the CRUK

2:30-5:00 p.m.

America North & Center

Session Chair: David Jenkinson, LifeArc, London, United Kingdom

2:30- 2:35 p.m. **Introduction** 

David Jenkinson, LifeArc, London, United Kingdom

2:35- 2:50 p.m. Cayden's Courage: A Journey Through Childhood Cancer

Courtney Addison

2:50- 3:50 p.m. **Scientific Presentations:** 

Navigating the landscape of paediatric oncology modalities

Epigenetic Dependence of Pediatric Brain Tumor - Insight into

**Epigenetic Therapy** 

Rintaro Hashizume, University of Alabama at Birmingham, Birmingham, AL

Targeted protein degradation for the treatment of pediatric

malignancies

Benjamin L. Ebert, Dana-Farber Cancer Institute, Boston, MA

Precision Radiotherapy for Incurable Brain Tumors: Phase 1b Dose & Regimen Optimization Study of Iopofosine I 131 in Inoperable Relapsed or Refractory Pediatric High- Grade Glioma, Interim Data Assessment

Jarrod Longcor, Cellectar Biosciences, Florham Park, NJ

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3:50- 4:45 p.m. Panel Discussion: Rewriting the rules of childhood cancer translation

Panelists:

Catherine Bollard, Children's National, Washington, DC Benjamin L. Ebert, Dana-Farber Cancer Institute, Boston, MA Mariella G. Filbin, Dana-Farber Cancer Institute, Boston, MA

Rintaro Hashizume, University of Alabama at Birmingham, Birmingham, AL Charles Roberts, St. Jude Children's Research Hospital, Memphis, TN

Jarrod Longcor, Cellectar Biosciences, Florham Park, NJ

4:45-5:00 **A year of C-Further** 

Tony Hickson, Cancer Research Horizon

Poster Session B (with light refreshments)

5:00-7:00 p.m. |

## Saturday, September 27, 2025

#### **Continental Breakfast**

7:00-8:00 a.m. | America Foyer

#### Plenary Session 4: Discovery and translation of targets

8:00-10:00 a.m. |

America North & Center

Session Chair: Kimberly Stegmaier, Dana-Farber Cancer Institute, Boston, MA

8:00-8:20 8:20-8:30	Therapeutic vulnerabilities in NUP98-rearranged leukemia Charles Mullighan, St. Jude Children's Research Hospital, Memphis, TN Discussion/Q&A
8:30-8:50	New Approaches to Target Pediatric Cancers Kimberly Stegmaier, Dana-Farber Cancer Institute, Boston, MA
8:50-9:00	Discussion/Q&A
9:00-9:20	Targeting chromatin modulators with therapeutic degraders Gromek Smolen, Foghorn Therapeutics, Cambridge, MA

In association with the AACR Pediatric Cancer Working Group (PCWG) September 25-28, 2025 | The Westin Copley Place | Boston, MA

9:20-9:30	Discussion/Q&A
9:30- 9:45	The Potential of BCL-xL degradation as a strategy to eliminate neuroblastoma persister cells*
	Matteo Calafatti, Children's Hospital of Philadelphia, Philadelphia, PA
9:45- 10:00	CBL mutations in pediatric solid and CNS tumours*
	Paul Ekert, Children's Cancer Institute, Sydney, NSW, Australia

#### **Break**

10:00-10:30 a.m. |

## Plenary Session 5: Immunology and Immuno-oncology in Pediatrics

10:30 a.m.-12:45 p.m. | America North & Center

Session Chair: Catherine Bollard, Children's National, Washington, DC

10:30-10:50	Next Generation T cell Therapies for Pediatric Solid Tumors Catherine Bollard, Children's National, Washington, DC
10:50-11:00	Discussion/Q&A
11:00-11:20	A portfolio of cellular immunotherapies for ALK-driven cancers Roberto Chiarle, Boston Children's Hospital, Brookline, MA
11:20-11:30	Discussion/Q&A
11:30-11:50	GD2-CAR T01 cells for pediatric solid tumors Francesca Del Bufalo, Bambino Gesù Chidren's Hospital, Rome, Italy
11:50-12:00	Discussion/Q&A
12:00-12:15	Characterization of Cytotoxic Cell Abundance and Genetic Variants in Immune-related Genes in Pediatric Acute Lymphoblastic Leukemia Patients*
	Maria Sol Ruiz, Universidad de Buenos Aires, Buenos Aires, Argentina
12:15- 12:30	Alectinib in Children and Adolescents with Solid or CNS Tumors Harboring ALK-fusions: Updated Data from the iMatrix Alectinib Phase I/II Open-label, Multi-center Study*
	Francis Mussai, Roche, Wellwyn Garden City, United Kingdom

In association with the AACR Pediatric Cancer Working Group (PCWG) September 25-28, 2025 | The Westin Copley Place | Boston, MA

### Lunch Break (lunch on your own)

12:30-3:00 p.m.

## Plenary Session 6: Cancer biology, early detection and ctDNA

3:00-5:00 p.m. |

America North & Center

Session Chair: Paul Northcott, St. Jude Children's Research Hospital, Memphis, TN

3:00- 3:20	DDR deficiency in neuroblastoma: lessons from zebrafish and patients Meredith Irwin, SickKids, Toronto, ON, Canada
3:20-3:30	Discussion/Q&A
3:30-3:50	Leveraging liquid biopsy to transform patient care in pediatric neuro- oncology Paul Northcott, St. Jude Children's Research Hospital, Memphis, TN
3:50-4:00	Discussion/Q&A
4:00-4:20	Cell-free DNA sequencing for early detection of hereditary cancer Trevor Pugh, UHN Princess Margaret Cancer Centre, Toronto, ON, Canada
4:20-4:30	Discussion/Q&A
4:30-4:45	Whole-Genome-Based, Tumor-Informed Circulating Tumor DNA Detection Correlates With Treatment Response And Survival Of Pediatric Solid Tumor*
	Loretta Lau, Children's Cancer Institute, Sydney, Australia
4:45- 5:00	Implementation and Performance of a Neuroblastoma Liquid Biopsy Panel for Non-Invasive Molecular Monitoring*
	Lea Surrey, Children's Hospital of Philadelphia, Philadelphia, PA

### Sunday, September 28, 2025

#### **Continental Breakfast**

7:00-8:00 a.m. America Foyer

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## **Plenary Session 7: Molecular Detection and Diagnostics**

8:00-10:00 a.m. |

America North & Center

Session Chair: Sam Behjati, Wellcome Sanger Institute, Cambridge, UK

8:00-8:20	Building Consensus, Driving Coverage: Toward Universal Molecular Profiling in Pediatric Cancer Alana Church, Boston Children's Hospital, Boston, MA
8:20-8:30	Discussion/Q&A
8:30-8:50	How Whole Genome Sequencing Helps Children with Cancer Sam Behjati, Wellcome Sanger Institute, Cambridge, UK
8:50-9:00	Discussion/Q&A
9:00-9:20	Enabling precision oncology in pediatric soft tissue sarcoma  Jack Shern, National Cancer Institute, Bethesda, MD
9:20-9:30	Discussion/Q&A
9:30- 9:45	Precision Diagnosis in High-Risk Paediatric Oncology through Integrated Whole Genome, Transcriptome, and Epigenome Profiling* Mark Cowley, Children's Cancer Institute, Sydney, Australia
9:45- 10:00	Investigating the potential of extracellular vesicle biomarkers for synovial sarcoma detection*  Maryke Grobler, Treehouse Childhood Cancer Initiative, Santa Cruz, CA

#### Break

10:00-10:30 a.m. |

### **Plenary Session 8: Clinical Trials**

10:30 a.m.-12:15 p.m. | America North & Center

Session Chair: Julie Park, St. Jude Children's Research Hospital, Memphis, TN

10:30-10:50	Challenges in Accessing Innovation for Children with Cancer Steve DuBois, Dana-Farber Cancer Institute, Boston, MA
10:50-11:00	Discussion/Q&A
11:00-11:20	Moving the Needle to Cure Every Children with ALL—What Will it take? Mignon Loh, Seattle Children's Research Institute, Seattle, WA

In association with the AACR Pediatric Cancer Working Group (PCWG) September 25-28, 2025 | The Westin Copley Place | Boston, MA

11:20-11:30	Discussion/Q&A
11:30-11:50	Immunotherapy: Shifting the Paradigm for the Treatment of Solid Tumors In Pediatric and Young Adults Patients
11:50-12:00	Julie Park, St. Jude Children's Research Hospital, Memphis, TN Discussion/Q&A
12:00-12:15	B7-H3-CAR T cells expressing 41BB ligand for pediatric solid tumors:  Preliminary results of a phase 1 study*  Rebecca Epperly, St. Jude Children's Research Hospital, Memphis, TN

## **Closing Remarks**

12:15-12:30 p.m. |

<sup>\*-</sup> short talks from highly rated abstracts