# **Advances in Pediatric Cancer Research**

In association with the AACR Pediatric Cancer Working Group (PCWG) September 5-8, 2024 | Sheraton Centre Toronto Hotel | Toronto, Ontario, Canada

## **CONFERENCE PROGRAM**

#### **CONFERENCE COCHAIRS:**

Alejandro Gutierrez, St. Jude Children's Research Hospital, Memphis, Tennessee Cynthia E. Hawkins, The Hospital for Sick Children, Toronto, Ontario, Canada Andrea A. Hayes-Dixon, Howard University College of Medicine, Washington, DC Gilles Vassal, Institut Gustave Roussy, Villejuif, France

## Thursday, September 5, 2024

#### **Opening Plenary Session**

5:00-7:00 p.m. | Osgood East & West | CME-Eligible

5:00-5:50	Keynote Speaker
	Navigating the pediatric cancer genomic frontier: From terrain mapping to
	targeted therapy
	Kimberly Stegmaier, Dana-Farber Cancer Institute, Boston, Massachusetts
5:50-6:00	Discussion/Q&A
6:00-6:50	AACR-St. Baldrick's Foundation Pediatric Cancer Research Fellowship Awardee Lecture:
	Clinical implementation of molecular tumor profiling for children with
	cancer
	Alanna J. Church, Boston Children's Hospital, Boston, Massachusetts
6:50-7:00	Discussion/Q&A

### **Opening Reception**

7:00-8:30 p.m.| Sheraton Hall D | Not CME-eligible

## Friday, September 6, 2024

#### **Continental Breakfast**

7:00-8:00 a.m.| Sheraton Hall C | Not CME-eligible

#### Plenary Session 1: Cancer Predisposition and the Causes of Cancer

8:00-10:00 a.m. | Osgood East & West | CME-Eligible Session Chair: Uri Y. Tabori, SickKids, Toronto, Ontario, Canada

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8:00-8:20	<b>Insights from replication repair deficient cancers on cancer initiation and</b> <b>vulnerability</b> Uri Y. Tabori, SickKids, Toronto, Ontario, Canada
8:20-8:30	Discussion/Q&A
8:30-8:50	<b>Genetic predisposition to pediatric cancer: The long way from discovery to surveillance guidelines</b> Franck Bourdeaut, Institute Curie, Paris, France
8:50-9:00	Discussion/Q&A
9:00-9:20	<b>Risk of therapy-related subsequent cancers in individuals with germline</b> <b>TP53 variants</b> Anita Villani, SickKids, Toronto, Ontario, Canada
9:20-9:30	Discussion/Q&A
9:30-9:40	Somatic genetic development of Wilms tumor via normal kidneys in predisposed children* Anna Wenger, Wellcome Sanger Institute, Cambridge, United Kingdom
9:40-9:45	Discussion/Q&A

#### Break

10:00-10:30 a.m. | Sheraton Hall C Foyer

### Plenary Session 2: Precision Medicine for Pediatric Cancer: Beyond Sequencing

10:30 a.m.-12:30 p.m. | Osgood East & West | CME-Eligible Session Chair: Jean-Pierre Bourquin, University Children's Hospital Zurich, Zürich, Switzerland

10:30-10:50	<b>RNA-based platform as a diagnostic aid for childhood cancer</b> Adam Shlien, SickKids, Toronto, Ontario, Canada
10:50-11:00	Discussion/Q&A
11:00-11:20	Epigenetic mechanisms controlling human leukemia stem cells and therapy resistance
11:20-11:30	Alex Kentsis, Memorial Sloan Kettering Cancer Center, New York, New York Discussion/Q&A
11:30-11:50	<b>A federated functional precision initiative for relapsed refractory ALL</b> Jean-Pierre Bourquin, University Children's Hospital Zurich, Zürich, Switzerland
11:50-12:00	Discussion/Q&A

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12:00-12:10	Canada's path towards proteome guided therapies and advanced molecular pathology in pediatric precision oncology* Philipp F. Lange, University of British Columbia, Vancouver, British Columbia, Canada
12:10-12:15	Discussion/Q&A
12:15-12:25	Next generation pediatric precision oncology: Functional profiling of patient-derived viable tumor material to link genotype and phenotype* Eleonora J. Looze, Princess Maxima Center for Pediatric Oncology, Utrecht, Netherlands
12:25-12:30	Discussion/Q&A

### Lunch Break (lunch on your own)

12:30-2:30 p.m.

#### Plenary Session 3: Overcoming Barriers in Pediatric Cancer Therapeutic Discovery

Organized by Cancer Research Horizons and LifeArc 2:30-4:30 p.m.| Osgood East & West | Not CME-Eligible

> Tony Hickson, Chief Business Officer, Cancer Research Horizons. London, United Kingdom David Jenkinson, Head of Childhood Cancer, LifeArc. London, United Kingdom Abbe Panucci, Patient Advocate, Alice's Arc US Inc., Berkeley, California Stacey Adam, Vice President, Science Partnerships, Foundation for the National Institutes of Health, North Bethesda, Maryland Michele Cleary, Life Sciences and Drug Discovery Leader, Advancium Health Network, Princeton, New Jersey

#### Poster Session A (with light refreshments)

4:30-6:30 p.m. | Sheraton Hall D and E | Not CME-Eligible

## Saturday, September 7, 2024

#### **Continental Breakfast**

7:00-8:00 a.m. | Sheraton Hall C | Not CME-eligible

#### Plenary Session 4: Circulating DNA and Other Novel Early Relapse Detection Tools

8:00-10:00 a.m. | Osgood East & West | CME-Eligible Session Chair: Cynthia E. Hawkins, SickKids, Toronto, Ontario, Canada

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8:00-8:20	A methodical journey towards clinical application of ctDNA and new liquid biopsy adventures Brian D. Crompton, Dana-Farber Cancer Institute, Boston, Massachusetts
8:20-8:30	Discussion/Q&A
8:30-8:50	<b>Liquid biopsy for pediatric cancer</b> Cynthia E. Hawkins, SickKids, Toronto, Ontario, Canada
8:50-9:00	Discussion/Q&A
9:00-9:20	<b>Opportunities and challenges for liquid biopsies in pediatric oncology</b> Gudrun Schleiermacher, Institut Curie, Paris, France
9:20-9:30	Discussion/Q&A
9:30-9:40	A toolbox for the use of cfDNA in pediatric cancer patients* Godelieve Tytgat, Prinses Maxima Center, Utrecht, Netherlands
9:40-9:45	Discussion/Q&A
9:45-9:55	Liquid biopsy enables identification of mechanisms of tumor evolution in patients with newly diagnosed high-risk neuroblastoma: A report from the Children's Oncology Group* Gabriela Virdzekova, Dana-Farber Cancer Institute, Boston, Massachusetts
9:55-10:00	Discussion/Q&A

#### Break

10:00-10:30 a.m. | Sheraton Hall C Foyer

### **Plenary Session 5: Pediatric Cancer Disparities**

10:30 a.m.-12:30 p.m. | Osgood East & West | CME-Eligible Session Chair: Lena Winestone, University of California San Francisco, San Francisco, California

10:30-10:50	<b>Disparities in access to pediatric cancer care</b> Lena Winestone, University of California San Francisco, San Francisco, California
10:50-11:00	Discussion/Q&A
11:00-11:20	<b>Disparities in childhood cancer outcomes: Can we move from describing to intervening?</b> Sumit Gupta, SickKids, Toronto, Ontario, Canada
11:20-11:30	Discussion/Q&A
11:30-11:50	Increasing diversity in pediatric cancer clinical trials: Challenges and

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11:50-12:00	Paula Aristizabal, University of California, San Diego, California Discussion/Q&A
12:00-12:10	Persistent poverty is associated with risk of early mortality among children with cancer: An analysis of SEER data* Emma Hymel, University of Nebraska Medical Center, Omaha, Nebraska
12:10-12:15	Discussion/Q&A
12:15-12:25	The impact of social determinants and neuropsychological factors on healthcare transition readiness among adolescent and young adult childhood cancer survivors* Gayeong Kim, Emory University, Atlanta, Georgia
12:25-12:30	Discussion/Q&A

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

12:30-2:15 p.m.

### Plenary Session 6: Immunotherapy and Immunology

2:15-4:15 p.m. | Osgood East & West | CME-Eligible Session Chair: Rayne H. Rouce, Baylor College of Medicine, Houston, Texas

2:15-2:35	<b>CAR T-cells for T-cell malignancies: Challenges and opportunities</b> Rayne H. Rouce, Baylor College of Medicine, Houston, Texas
2:35-2:45	Discussion/Q&A
2:45-3:05	<b>GD2-specific CAR T cell therapies for pediatric solid cancers</b> Claudia Rossig, University Children's Hospital Münster, Muenster, Germany
3:05-3:15	Discussion/Q&A
3:15-3:35	<b>Mapping microglia – tumor crosstalk in pediatric brain cancer</b> Florent Ginhoux, Gustave Roussy, Villejuif, France
3:35-3:45	Discussion/Q&A
3:45-3:55	Functional inhibition of natural killer cells enables surgery-induced accelerated neuroblastoma tumor growth in a mouse model* Brian T. Craig, Medical College of Wisconsin, Milwaukee, Wisconsin
3:55-4:00	Discussion/Q&A
4:00-4:10	Developing a safe and potent tumor-targeting gated CAR-T cell therapy for DIPG: A deadly pediatric brain tumor*

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Sujatha Venkataraman, University of Colorado, Anschutz Medical Campus, Aurora, Colorado 4:10-4:15 Discussion/Q&A

#### Plenary Session 7: Novel Breakthroughs in Pediatric Hematology Research

Organized by the AACR Pediatric Cancer Working Group (PCWG) 4:30-6:00 p.m. | Osgood East & West | CME-Eligible Session Chair: Kathrin Maria Bernt, Children's Hospital of Philadelphia, Merion Station, Pennsylvania

4:30-4:35	<b>Introduction</b> Kathrin Maria Bernt, Children's Hospital of Philadelphia, Merion Station, Pennsylvania
4:35-4:55	<b>New insights into the biology and treatment of T-ALL and T-LL</b> David T. Teachey, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania
4:55-5:15	<b>Understanding cellular predictors of relapse in B cell acute</b> <b>lymphoblastic leukemia</b> Kara L. Davis, Stanford University, Stanford, California
5:15-5:35	<b>Transcriptional dysregulation in pediatric leukemias</b> Kathrin Maria Bernt, Children's Hospital of Philadelphia, Merion Station, Pennsylvania
5:35-6:00	Panel discussion

#### Poster Session B (with light refreshments)

6:00-8:00 p.m. | Sheraton Hall D and E | Not CME-Eligible

## Sunday, September 8, 2024

### **Continental Breakfast**

7:00-8:00 a.m. | Sheraton Hall C | Not CME-eligible

### **Plenary Session 8: Emerging Therapies and Drug Resistance**

8:00-10:00 a.m. | Osgood East & West | CME-Eligible Session Chair: Scott A. Armstrong, Dana-Farber Cancer Institute, Boston, Massachusetts

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8:00-8:20	<b>Targeting chromatin complexes in cancer</b> Scott A. Armstrong, Dana-Farber Cancer Institute, Boston, Massachusetts
8:20-8:30	Discussion/Q&A
8:30-8:50	<b>Neogenes induced by oncogenic chimeric transcription factors as potential targets for therapy</b> Olivier Delattre, Institut Curie, Paris, France
8:50-9:00	Discussion/Q&A
9:00-9:20	A methyltransferase-independent role for METTL1 in tRNA aminoacylation and oncogenic transformation
	Alejandro Gutierrez, St. Jude Children's Research Hospital, Memphis, Tennessee
9:20-9:30	Discussion/Q&A
9:30-9:40	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, F. Hoffmann-La Roche Ltd, Welwyn Garden City, United Kingdom
9:40-9:45	Discussion/Q&A
9:45-9:55	MYOD1L122R induces chemoresistance and elevates cancer stem cell programs through WNT11-ROR2-VANGL2 signaling in aggressive rhabdomyosarcoma* Yun Wei, Harvard Medical School, Boston, Massachusetts
9:55-10:00	Discussion/Q&A

#### Break

10:00-10:30 a.m. | Sheraton Hall C Foyer

#### Plenary Session 9: New Strategies for Early Phase Clinical Trials

10:30 a.m.-12:30 p.m. | Osgood East & West | CME-Eligible Session Chair: Andrea A. Hayes-Dixon, Howard University Hospital, Washington, District of Columbia

10:30-10:50	How novel clinical research informs pediatric clinical trials
	Andrea A. Hayes-Dixon, Howard University Hospital, Washington, District of
	Columbia
10:50-11:00	Discussion/Q&A

#### 11:00-11:20 Trial designs to find early signals of efficacy in rare pediatric cancers

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11:20-11:30	Katherine A. Janeway, Dana-Farber Cancer Institute, Boston, Massachusetts Discussion/Q&A
11:30-11:50	Are we ready to accelerate the development of new safe and effective anticancer medicines for children and adolescents? Gilles Vassal, Gustave Roussy, VIllejuif, France
11:50-12:00	Discussion/Q&A
12:00-12:30	Panel Discussion

### **Closing Remarks**

12:30-12:45 p.m. | Osgood East & West | Not CME-Eligible

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