

## Ci4CC Fall 2020 Virtual Symposium

### Scientific Drivers for Informatics, Data Science, and Care in Pediatric, Adolescent, and Young Adult (AYA) Cancer

September 24, October 1, and October 8, 2020

## Event-At-A-Glance

The Fall 2020 Symposium is our 15th organized NCI & Community Cancer Center Informatics Symposium. For this conference, we will focus on how research in pediatric and AYA cancers is evolving and increasingly dependent upon data science and informatics to provide insights into biology and potential therapies. Participants will hear about scientific advances in the understanding of pediatric and AYA cancers, and how lessons learned in these domains can impact adult cancer research and care.

Pediatric and AYA cancers are collectively considered rare diseases because there are so few cases diagnosed each year, particularly when compared with cancers diagnosed in older populations. This fact does not change the devastating effect of cancer on every individual patient and family, and survivors of childhood and AYA cancers are steadily increasing. A focused, unified approach to data science for these cancers is imperative to ensure data from every patient are available for analysis as an integrated whole. The incorporation of data science and informatics into pediatric and AYA research is necessary to advance our understanding of cancer etiology, identify new approaches for cancer prevention and early detection, improve cancer patient outcomes, and enhance cancer care delivery throughout the community. There is a growing focus on data collection within the cancer research community alongside increasing utilization of cloud-based repositories and digital tools for analysis. Opportunities exist to improve survivorship and ultimately reduce the burden of cancer on patients and their families through: a) focus on data generation to fill key knowledge gaps, b) creating linkages among existing data repositories, and c) development of new, nationwide registries and cohorts to provide the power to discover novel treatments for pediatric and AYA cancers.

The Fall 2020 Ci4CC virtual conference will cover topics such as:

- NCI research programs focused on pediatric and AYA cancers
- Emerging scientific discoveries in immunotherapy, precision medicine, and rare tumors
- Data repositories and how to facilitate interoperability through use of standards and applying data harmonization
- Registries specifically focusing on childhood cancers and how to effectively capture data
- Recent Health Services Research revelations about childhood and AYA cancers and strategies to address these findings

Participants will also hear updates on NCI's Childhood Cancer Data Initiative and what advocacy groups and foundations are doing to support research, patients, and caregivers.



<b>Thursday, September 24, 2020</b> <b>1:00 – 5:45 PM ET</b> <b>Day One</b>	
1:00 – 1:15 PM	Spring 2020 Conference Welcome (Warren Kibbe and Sorena Nadaf)
1:15 – 1:30 PM	Spring 2020 Conference Chairs Introduction & Kick-off (Tony Kerlavage and Anne Kirchhoff)
1:30 – 1:45 PM	NCI Keynote: Childhood Cancer Data Initiative CCDI Vision (Norman E. “Ned” Sharpless)
1:45 – 2:00 PM	CCDI Overview (Jaime Guidry Auvil)
<b>2:00 PM Scientific Innovation in Childhood Cancer Programs</b>	
2:00 – 3:00 PM	<ul style="list-style-type: none"> <li>• Pediatric Immunotherapy Discovery and Development Network (PIDDN) (Kara Davis)</li> <li>• Fusion Oncoproteins in Childhood Cancers (FusOnC2) Consortium (Kim Stegmaier)</li> <li>• Pediatric MATCH (PedMATCH) (Nita Seibel)</li> </ul>
3:00 – 3:30 PM	<b>Break</b>
3:30 – 4:00 PM	<b>Corporate Keynote by DNAnexus</b> “Creating an Oncology-Focused Molecular Precision Medicine Hub” (David Fenstermacher)
4:00 – 5:00 PM	<ul style="list-style-type: none"> <li>• MyPART: My Pediatric and Adult Rare Tumor Network – Engaging Patients and Advocates for Comprehensive Analysis of Rare Solid Tumors (Karlyne Reilly)</li> <li>• Pre-clinical Models of Pediatric Cancer (John Maris)</li> <li>• Molecular Targets for Pediatric Cancer (Gregory Reaman)</li> </ul>
5:00 – 5:45 PM	Cancer Center Director Keynote “Data Science Opportunities at a Matrix Cancer Center” (Michael Teitell)
5:45 PM	Adjourn

(Hover your pointer over speaker names and click to pull up Bio)



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October 1, 2020 1:00 – 6:15 PM ET Day Two	
<b>1:00 PM – Pediatric Registries</b>	
1:00 – 3:00 PM	<ul style="list-style-type: none"> <li>A National Childhood Cancer Registry (Lynne Penberthy)</li> <li>The National Childhood Cancer Registry: A Peek Under the Hood (Dennis Deapen/Amie Hwang)</li> <li>Virtual Tissue Repository (Eric Durbin)</li> <li>NLP for Data Extraction (Sara Gallotto)</li> <li>Use of PHIS for Registry Creation (Kelly Getz)</li> </ul>
3:00 – 3:30 PM	<b>Break</b>
3:30 – 4:00 PM	<b>Corporate Keynote with GenomOncology</b> “Extracting Clinical Information from Unstructured Documents at Scale” (Ian Maurer)
4:00 – 4:30 PM	Understanding the Differences Between Childhood and Adult Cancer: Outcomes, Genetics, and Impact on Research and Data Science (Richard Aplenc)
<b>4:30 PM - Pediatric Data Resources &amp; Integration</b>	
4:30 – 6:15 PM	Pediatric Data Resources & Integration <ul style="list-style-type: none"> <li>Pediatric Cancer Data Harmonization (Sam Volchenboum)</li> <li>Kids First Data Resource Center (Allison Heath)</li> <li>ToppCell: A Single Cell Database Workbench to Explore the Genomic and Cellular Networks Responsible for Normal, Developing, and Neoplastic Tissues (Bruce Aronow)</li> <li>St. Jude Cloud (Jinghui Zhang)</li> <li>Treehouse / California Kids Comparison Study (Olena Vaske)</li> </ul>
6:15 PM	Adjourn

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<b>October 8, 2020</b> <b>1:00 – 6:00 PM ET</b> <b>Day Three</b>	
<b>1:00 Pediatric and AYA Cohorts</b>	
1:00 – 2:00 PM	Pediatric and AYA Cohorts <ul style="list-style-type: none"> <li>• Project: EveryChild (Todd Alonzo)</li> <li>• Linking Administrative Health Data to Ontario’s Pediatric and AYA Cancer Registries (Paul Nathan)</li> <li>• Making the Most of COG's Research Registry Protocols AACRN07 and APEC14B1 (Jen Poynter)</li> </ul>
2:00 – 3:45 PM	<ul style="list-style-type: none"> <li>• The Lifetime Impact of Childhood Cancer and Cancer Therapy (Greg Armstrong)</li> <li>• Utah Data Initiative (Anne Kirchhoff)</li> <li>• AYA Survivorship (Erin Hahn)</li> <li>• Use of National Claims Data to Inform AYA Oncology: Focus on End-of-life Care (Karen Wernli)</li> </ul>
3:45 – 4:15 PM	<b>Break</b>
4:15 – 4:45 PM	<b>Corporate Keynote with <a href="#">OnRamp Bioinformatics</a></b> <b>“Collaboration in the Cloud: Empowering the Oncology Research Community”</b> (Cassandra Wesselman & Jean Lozach)
<b>4:45 - Foundations, Collaborations, and Advocacy: Fueling Innovation in Data Science</b>	
4:45 – 5:45 PM	<ul style="list-style-type: none"> <li>• Empowering Pediatric Cancer Researchers with Big Data (Casey Greene)</li> <li>• Zero Childhood Cancer (Jack DiGiovanna)</li> <li>• Powering Science in Pediatric Cancer (Adam Resnick)</li> </ul>
5:45 – 6:00 PM	Closing (Co-chairs)
6:00 PM	Meeting Adjourned (Warren Kibbe & Sorena Nadaf)

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## Ci4CC Fall 2020 – Confirmed Speakers

- [Todd Alonzo, PhD - University of Southern California, Keck School of Medicine](#)
- [Richard Aplenc, MD, PhD – Children's Hospital of Philadelphia](#)
- [Greg Armstrong, MD, MSCE – St. Jude Children's Research Hospital](#)
- [Bruce J. Aronow, PhD - Cincinnati Children's Hospital](#)
- [Kara Davis, DO – Stanford Child Health Research Institute](#)
- [Dennis Deapen, PhD - University of Southern California, Keck School of Medicine](#)
- [Jack DiGiovanna, PhD – Seven Bridges](#)
- [Eric Durbin, DrPH, MS - University of Kentucky, Markey Cancer Center](#)
- [David Fenstermacher, PhD - DNAnexus](#)
- [Sara L. Gallotto, MS – Mass General Hospital](#)
- [Kelly Getz, PhD, MPH - Perelman School of Medicine at the University of Pennsylvania](#)
- [Casey Greene, PhD – University of Pennsylvania](#)
- [Jaime Guidry Auvil, PhD – National Cancer Institute](#)
- [Erin Hahn, PhD, MPH – Kaiser Permanente Department of Research and Evaluation](#)
- [Allison Heath, PhD – Children's Hospital of Philadelphia](#)
- [Amie Hwang, PhD – University of Southern California, Keck School of Medicine](#)
- [Anthony Kerlavage, PhD – National Cancer Institute](#)
- [Anne Kirchhoff, PhD, MPH - Huntsman Cancer Institute and University of Utah, School of Medicine](#)
- [Jean Lozach, MS – Chief Scientific Officer, OnRamp Bioinformatics](#)
- [Ian Maurer, Chief Technology Officer, GenomOncology](#)
- [John Maris, MD – The Children's Hospital of Philadelphia](#)
- [Paul Nathan, MD, MSC, FRCPC – The Hospital for Sick Children](#)
- [Lynne Penberthy, MD, MPH – National Cancer Institute](#)
- [Jen Poynter, PhD, MPH – University of Minnesota, Masonic Cancer Center](#)
- [Gregory Reaman, MD – Food and Drug Administration](#)
- [Karlyne Reilley, PhD – National Cancer Institute](#)
- [Adam Resnick, PhD – Children's Hospital of Philadelphia](#)
- [Nita Seibel, MD – National Cancer Institute](#)
- [Norman E. "Ned" Sharpless, MD – NCI Director](#)
- [Kimberly Stegmaier, MD – Dana Farber / Harvard Cancer Center](#)
- [Michael Teitell, MD, PhD – UCLA Jonsson Comprehensive Cancer Center](#)
- [Olena Morozova Vaske, PhD – University of California Santa Cruz](#)
- [Sam Volchenbom, MD, PhD, MS – University of Chicago](#)
- [Karen Wernli, PhD - Kaiser Permanente Washington Health Research Institute](#)
- [Cassandra Wesselman, MBA - Head of Clinical Solutions & Patient Empowerment, OnRamp Bioinformatics](#)
- [Jinghui Zhang, PhD – St. Jude Children's Research Hospital](#)

### Fall Ci4CC Co-chairs:

- [Anne Kirchhoff, PhD, MPH – Huntsman Cancer Institute and University of Utah, School of Medicine](#)
- [Anthony Kerlavage, PhD – National Cancer Institute](#)

### Ci4CC Co-founders:

- [Warren Kibbe, PhD - Duke](#)
- [Sorena Nadaf, MS, MMI – City of Hope](#)