



Cancer Genomics Consortium, 12th Annual Meeting August 1 - 4, 2021

The CGC 2021 Virtual Annual Meeting will be presented in the eastern daylight times (EDT) shown below.

After each presentation, recordings will be available on the virtual meeting platform for those registrants in different time zones, and will be posted later on the CGC website for on demand access for CGC members.

Sunday, August 1, 2021

Opening of the 12th Annual Cancer Genomics Consortium

11:30 AM	<p>Welcome Patricia M. Miron, <i>UMass Memorial Medical Center</i></p>
11:35 AM – 12:35 PM	<p>Keynote Presentation</p> <p>Deciphering oncohistone pathogenesis in cancer Nada Jabado, <i>McGill University</i></p> <p>Introduction: Patricia M. Miron, <i>UMass Memorial Medical Center</i></p> <p>Speaker Q & A</p>
12:35 – 1:20 PM	<p>Diamond Vendor Showcase: Illumina <i>(No CME available)</i></p> <p>DNA Methylation, CNV Analysis, and Case Studies Andreas von Deimling, <i>University Clinic Heidelberg and DKFZ</i> Eric Vail, <i>Cedars-Sinai</i> David Solomon, <i>University of California San Francisco</i></p> <p>Speaker Q & A</p>
1:20 – 1:25 PM	<p>Break: Announcements</p>

1:25 – 2:25 PM

CGC Session 1: Brain Tumors – Molecular Landscape and Emerging Targets

Moderators:

Jacklyn Biegel, *Children's Hospital Los Angeles*
Vera Paulson, *University of Washington*

Clinicopathologic analysis of gliomas harboring ROS1 gene rearrangements

Linda Cooley, *UMKC*

TERT and MGMT RNA sequencing gene expression correlation with mutational/methylation promoter status in brain tumors

Christiane Ida, *Mayo Clinic*

Optical Genome Mapping reveals novel structural variants in pediatric high grade gliomas

Miriam Bornhorst, *Children's National Hospital*

Glioblastomas with MAPK pathway alterations show low grade histologic features and present novel therapeutic targets

David Meredith, *Brigham and Women's Hospital*

Session Q & A

2:25 – 2:50 PM

Platinum Vendor Showcase: Qiagen

(No CME available)

Homologous recombination repair (HRR) and deficiency (HRD): The role of DNA damage repair (DRR)

Vikas Gupta and Raed Samara, *Qiagen*

Speaker Q & A

2:50 PM

Gold Vendor Showcase: BioDot

(no CME available)

BioDot CellWriter

Matt Sergent, *BioDot*

2:55 – 3:00 PM

Break: Announcements

Sunday Workshops

[Additional Information available online.](#)

There is an additional registration fee to attend the workshops.

3:00 – 4:30 PM

CGC Workshop

Visualization and interpretation tools/resources for structural genomic variants

Moderator:

Deborah Ritter, *Baylor College of Medicine*

Speakers:

Debyani Chakravarty, *Memorial Sloan Kettering Cancer Center*
Jianjiong Gao, *Memorial Sloan Kettering Cancer Center*
Jason Saliba, *Washington University in St. Louis*
Ahmet Zehir, *Memorial Sloan Kettering Cancer Center*

4:30 – 4:40 PM

Break: Announcements

4:40 – 6:10 PM

CGC Workshop

Case-based discussion of updates in cytogenetic and molecular nomenclature, interpretation and reporting standards, and interpretation resources for cancer variants

Moderator:

Gordana Raca, *Children's Hospital Los Angeles*

Speakers:

Jean Mcgowan-Jordean, *CHEO Genetics Laboratory/ University of Ottawa*
Beth Pitel, *Mayo Clinic*
Teresa Smolarek, *Cincinnati Children's Hospital Medical Center*
Gordana Raca, *Children's Hospital Los Angeles*
Svetlana Yatsenko, *University of Pittsburgh Medical Center*
Ravindra Kohle, *Augusta University*

6:15 – 7:15 PM

Early Career/New Director Event

Monday, August 2, 2021

10:00 - 10:10 AM

Presidential Address

Yasmine Akkari, *Legacy Health*

10:10 – 11:10 AM

CGC Session 2: New Strides in Technology

Moderators:

Fabiola Quintero-Rivero, *University of California Irvine*
Cinthya Zepeda, *ARUP*

Clinical laboratory validation of TCR-seq for detection of clonality

Jane Houldsworth, *Icahn, Mt. Sinai*

Emerging clinically-relevant applications of ultra-sensitive mutation detection

Lei Wei, *Roswell Park*

Adoption of Optical Genome Mapping in Clinical Cancer Cytogenetics Laboratory: A Stepwise Approach

Victoria Stinnett, *The Johns Hopkins University*

Rapid Clinical BRAF V600 mutation testing using Idylla Platform

Meenakshi Mehrotra, *Icahn School of Medicine at Mount Sinai*

Session Q & A

11:10 AM

Gold Vendor Showcase: FujiFilm Irvine Scientific
(no CME available)

Cell culture media specialists: Providing solutions for cytogenetics in clinical and research applications
Shaun Waters, *FujiFilm Irvine Scientific*

11:15 – 11:35 AM

Break Announcements

11:35 AM - 12:35 PM

Keynote Presentation

Global views of cell lineage in metastasis and development
Jay Shendure, *University of Washington*
Introduction: Cinthya Zepeda, *ARUP*

Speaker Q & A

12:35 – 1:20 PM

Diamond Vendor Showcase: Bionano Genomics
(No CME available)

1:20 – 2:35 PM

Lunch Break / Exhibit Hall Open

2:35 – 3:20 PM

Invited Speaker

The next generation of cytogenetics and molecular genetics in leukemia diagnostics
Torsten Haferlach, *Munich Leukemia Laboratory*

Introduction: Rashmi Kanagal-Shamann, *MD Anderson*

Speaker Q & A

3:20 PM

Gold Vendor Showcase: ADS Biotec
(no CME available)

Enabling Seamless Automation in Cytogenetics
John McCloskey, *ADS Biotec*

3:25 – 4:10 PM

CGC Session 3: New Molecular Insights into Myeloid Hematologic Malignancies

Moderators:

Gordana Raca, *Children's Hospital Los Angeles*
Lisa Lansdon, *Children's Mercy Hospital*

ETV6-PDGFR A fusions detected by FISH in acute myeloid leukemia with translocation t(4;12)(q12;p13) are false positive
Sarah Mueller, *Massachusetts General Hospital*
First Place Trainee Abstract Award

SNP microarray analysis of over 7,500 myeloid patients: Implications, importance and suggestions for standard of care
Stuart Schwartz, *Laboratory Corporation of America*

Optical Genome Mapping for Chromosomal Structural Variants Analysis in Hematological Malignancies

Rashmi Kanagal-Shamanna, *MD Anderson Cancer Center*

Session Q & A

4:10 – 4:35 PM

Platinum Vendor Showcase: SOPHiA Genetics

(No CME available)

The SOPHiA DDMTM Platform: Deep dive on how we support solid tumor detection

Emily Paul, Mikhail Pertziger, and Marian Novak, *SOPHiA Genetics*

4:35 – 5:40 PM

Exhibit Hall Open

5:40 – 6:25 PM

CGC Session 4: Integrating Genomics into Constitutional Analysis

Moderators:

Patricia Miron, *UMass Memorial Medical Center*

Rebecca Smith, *Genetics Associates, Inc.*

Cancer Cytogenomic Array analysis reveals origin of ovarian teratoma and reproductive lessons learned from it

Lina Shao, *University of Michigan*

Next-generation cytogenetics: Proposal for a cost-effective approach for comprehensive testing of prenatal cases

Nikhil Sahajpal, *Augusta University*

Deletions resulting in Brachydactyly Mental Retardation Syndrome (BDMR): Multiple Contributing Regions in Distal 2q37?

Aiko Otsubo, *Indiana University*

Session Q & A

6:25 PM

Gold Vendor Showcase: Global Alliance for Genomics & Health (GA4GH)

(no CME available)

Presenting the Global Alliance for Genomics & Health (GA4GH)

Gold Vendor Showcase: Michigan Medical Laboratories

(no CME available)

6:30 – 7:00 PM

Panel-Based Discussion: Navigating the evolution of cytogenetics

Yasmine Akkari, *Legacy Health*

P. Alan Lennon, *PathGroup*

Karen Rabin, *Texas Children's Cancer Center, Baylor College of Medicine*

Q & A with Speakers

Tuesday, August 3, 2021

10:00 – 11:00 AM

CGC Session 5: Database Curation and Mining

Moderators:

Kilannin Krysiak, *Washington University School of Medicine*

Beth Pitel, *Mayo Clinic*

Standard Procedure for the Curation and Maintenance of Cancer-Specific Gene Lists

Beth A. Pitel, *Mayo Clinic*

First Place Technologist Abstract Award

Enhancement of Pediatric Cancer Curation and Representation through expert-guided data mining and ontology refinement

Jason Saliba, *Washington University School of Medicine*

Multi-consortia initiative to standardize the representation and curation of oncogenic fusions

Alex Wagner, *Nationwide Children's Hospital*

Progenetix – An open reference resource for copy number variation data in cancer

Qingyao Huang, *Universität Zürich*

Session Q & A

11:00 AM

Gold Vendor Showcase: The Jackson Laboratory

(no CME available)

JAX Clinical Knowledgebase (CKB)

Cara Statz, *The Jackson Laboratory*

11:05 – 11:50 AM

Invited Speaker

AI Applications to drive precision oncology clinical trials

Subha Madhavan, *Georgetown University*

Introduction: Obi Griffith, *Washington University*

Speaker Q & A

11:50 AM – 12:35 PM

Diamond Vendor Showcase: Agilent Technologies

(No CME available)

One workflow – endless options: NGS workflow solutions

Brigette Brown-Kipphut, *Agilent Technologies*

K.C. Varva, *Agilent Technologies*

12:40 – 1:40 PM

Roundtable Breakout Sessions

Topic list available [online](#). Please make your selection during registration. Only 16 spaces are available in each discussion topic.

- 1:40 – 2:15 PM** **Lunch Break / Exhibit Hall Open**
- 2:15 – 3:15 PM** **Keynote Presentation**
Towards Population genomic screening for cancer susceptibility
Leslie G. Biesecker, *National Human Genome Research Institute*
Introduction: P. Alan Lennon, *PathGroup*
- Speaker Q & A**
- 3:15 PM** **Gold Vendor Showcase: Geneoscopy (no CME available)**
- Presenting Geneoscopy**
Erica Barnell, *Geneoscopy*
- 3:20 – 4:05 PM** **CGC Session 6: Genetic Spectrum of Vascular Anomalies and Overgrowth Syndromes**
- Moderators:**
Min Fang, *Fred Hutchinson Cancer Research Center*
Alaa Koleilat, *Mayo Clinic*
- Genomic structural variations in lymphatic anomalies**
Thuy Phung, *University of South Alabama*
- Diagnostic utility and lessons learned from deep sequencing vascular malformations**
Candace Myers, *Seattle Children's Hospital*
- Co-existence of two activating variants in somatic overgrowth and vascular anomalies: 7 years' findings at a single center**
Yang Cao, *Washington University School of Medicine*
- Session Q & A**
- 4:05 – 4:30 PM** **Platinum Vendor Showcase: Natera (No CME available)**
- Informed by the tumor: The power of a personalized ctDNA Assay for Treatment Monitoring in HER2**
Angel Rodriguez and John Simmons, *Natera*
- 4:30 – 5:30 PM** **Exhibit Hall Open**
- 5:30 – 6:15 PM** **CGC Session 7: Hematologic Malignancies**
- Moderators:**
Lina Shao, *University of Michigan*
Marilena Melas, *Nationwide Children's Hospital*
- Characterization of atypical iAMP21 observed in B-Lymphoblastic Leukemia (B-ALL): a retrospective study from Mayo Clinic**
Alaa Koleilat, *Mayo Clinic*
- Second Place Abstract Trainee Award**

Complementarity of RNA sequencing and optical genome mapping in detection of rare fusions in pediatric B-ALL

Gordana Raca, *Children's Hospital Los Angeles*

Archer system copy number alteration caller: user experience

Celeste Eno, *Cedars-Sinai Medical Center*

Session Q & A

6:15 – 6:35 PM

Platinum Vendor Showcase: Roche (No CME available)

HyperPETE: A Novel Primer Extension Target Enrichment Solution for Rapid and Reliable Variant Detection Results

Brian Godwin, *Roche Sequencing Solutions*

6:40 – 7:10 PM

From oncology to pathology and genomics and back again: a 360-degree perspective on a unique B-cell leukemia

Adrian Dubuc, Jacqueline Garcia, and Gabriel Griffin, *Brigham and Women's Hospital*

7:15 – 8:30 PM

After Hours Social

Wednesday, August 4, 2021

10:00 – 11:00 AM

CGC Session 8: Hereditary Cancer/Cancer Predisposition

Moderators:

Xinjie Xu, *Mayo Clinic*

Angela Lager, *University of Chicago*

Large scale analysis in Von Hippel-Lindau disease

Kristen Farncombe, *University Health Network*

Co-occurrence of rosette-forming glioneuronal tumors with Noonan syndrome

Marilena Melas, *Nationwide Children's Hospital*

10-year retrospective analysis of BRCA germline mutation in multiethnic gynecologic patients from a U.S. cancer center

Christina Wei, *City of Hope National Medical Center*

Identification of TP53 germline variants in pediatric patients undergoing tumor testing

Minjie Luo, *Children's Hospital of Philadelphia*

Session Q & A

11:00 AM

Gold Vendor Showcase: Oxford Nanopore
(no CME available)

11:05 – 11:35 AM

Break: Announcements

11:35 AM – 12:35 PM

Keynote Presentation

Proteogenomics as a driver for discovery of biomarkers and therapeutic targets in cancer

Kojo S. J. Elenitoba-Johnson, *University of Pennsylvania*

Introduction: Yasmine Akkari, *Legacy Health*

Speaker Q & A

12:35 – 1:20 PM

Diamond Vendor Showcase: Thermo Fisher Scientific
(No CME available)

Biomarker discovery through tumor profiling

Mary Napier, *Thermo Fisher Scientific*

Improved risk stratification for B-ALL patients using chromosome genomic array testing and targeted RNA sequencing

Min Fang, *Fred Hutchinson Cancer Center Research Center and University of Washington, Seattle*

Speaker Q & A

1:20 – 2:35 PM

Lunch Break / Exhibit Hall Open

2:35 PM

Gold Vendor Showcase: BioDiscovery
(no CME available)

NxClinical's Approach to HRD Analysis

2:40 – 3:30 PM

CGC Session 9: CGC Updates

Moderators:

Yasmine Akkari, *Legacy Health*

Kilannin Krysiak, *Washington University School of Medicine*

Launching a CGC initiative to support trainees and early career members: Survey results and analysis

Kilannin Krysiak, *Washington University School of Medicine*

Perspectives in genetic counseling

Lindsey Byrne, *The Ohio State University*

Sheila Solomon, *Guardant Health*

The Compendium of Cancer Genome Aberrations (CCGA): Becoming a global hub for clinical interpretation

Jennelle Hodge, *Indiana University*

CGC PACC Report: New Initiatives and future directions

Rashmi Kanagal-Shamanna, *MD Anderson Cancer Center*

3:30 – 3:55 PM

Platinum Vendor Showcase: Oxford Gene Technology
(No CME available)

Transitioning CLL FISH analysis into the molecular biomarker era

Tracy Tucker, *BC Cancer*

3:55 – 4:25 PM

CGC Session 10: Bioinformatics

Moderator:

Obi Griffith, *Washington University School of Medicine*

A cost-effective bioinformatics triage strategy for testing PMS2 short-read next generation sequencing

Wei Shen, *Mayo Clinic*

Computer-aided cytogenomic classification of renal cell carcinoma

Soheil Shams, *BioDiscovery*

4:25 PM

Gold Vendor Showcase: Twist Bioscience (no CME available)

Writing the future of cancer research

Melina Mathur, *Twist Bioscience*

4:30 – 5:30 PM

Exhibit Hall Open

5:30 – 6:30 PM

CGC Session 11: Unraveling Solid Tumors with Genomic Technologies

Moderators:

Teresa Smolarek, *Cincinnati Children's Hospital Medical Center*

Niroshi Senaratne, *University of California Los Angeles*

Clinical utility and feasibility of adopting optical genome mapping for chromosomal characterization of solid tumors

Nikhil Sahajpal, *Augusta University*

Second Place Technologist Abstract Award

Tumor cellularity estimation in a targeted NGS panel of tumor-only specimens expands analytical utility

Stephanie Siegmund, *Brigham and Women's Hospital*

A molecular and clinicopathologic analysis of primary intracranial sarcomas

Zahra Aldawood, *Harvard School of Dental Medicine*

Atypical FISH patterns clarified by RNAseq in solid tumor specimens

Beth A. Pitel, *Mayo Clinic*

Session Q & A

6:30 – 7:00 PM

CGC 2021 Business Meeting

Yasmine Akkari, CGC President, *Legacy Health*

Xinjie Xu, CGC Treasurer, *Mayo Clinic*

Patricia M. Miron, CGC President-Elect, *UMass Memorial Medical Center*

Business Meeting Q & A

Closing Remarks