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

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

Sunday, August 1, 2021

Opening of the 12th Annual Cancer Genomics Consortium

11:30 AM Welcome Patricia M. Miron, UMass Memorial Medical Center

11:35 AM – 12:35 PM Keynote Presentation
Deciphering oncohistone pathogenesis in cancer
Nada Jabado, McGill University

Introduction: Patricia M. Miron, UMass Memorial Medical Center

Speaker Q&A

12:35 – 1:20 PM Diamond Vendor Showcase: Illumina
(No CME or CEUs available)

1:20 – 1:25 PM Break: Announcements

1:25 – 2:25 PM CGC Session 1: Brain Tumors - Molecular Landscape and Emerging Targets
Moderator: TBD

Clinicopathologic analysis of gliomas harboring ROS1 gene rearrangements
Linda Cooley, University of Missouri Kansas City Medical School

TERT and MGMT RNA sequencing gene expression correlation with mutational/methylation promoter status in brain tumors
Cristiane Ida, Mayo Clinic

Optical genome mapping reveals novel structural variants in 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 or CEUs available)

2:50 – 3:00 PM  Break: Announcements

Workshops  (There is an additional registration fee to attend the workshops)

3:00 – 4:30 PM  CGC Workshop A: Visualization and interpretation tools/resources for structural genomic variants
Speakers Coming Soon!

4:30 – 4:40 PM  Break: Announcements

4:40 – 6:10 PM  CGC Workshop B: Case-based discussion of updates in cytogenetic and molecular nomenclature, interpretation and reporting standards, and interpretation resources for cancer variants
Speakers Coming Soon!

6:15 – 7:15 PM  Early Career / New Director Event

Monday, August 2, 2021

10:00 - 10:10 AM  Presidential Address
Yassmine Akkari, Legacy Health

10:10 – 11:10 AM  CGC Session 2: New Strides in Technology
Moderator: TBD

Clinical laboratory validation of TCR-seq for detection of clonality
Jane Houldsworth, Icahn School of Medicine at Mount Sinai

Emerging clinically-relevant applications of ultra-sensitive mutation detection
Lei Wei, Roswell Park Comprehensive Cancer Center

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 - 11:30 AM  Break: Announcements
11:30 AM - 12:30 PM  Keynote Presentation  
Global views of cell lineage in metastasis and development  
Jay Shendure, University of Washington  

Introduction: Cinthya Zepeda, ARUP  
Speaker Q&A  

12:30 – 1:15 PM  Diamond Vendor Showcase: Bionano Genomics  
(No CME or CEUs available)  

1:15 – 2:30 PM  Lunch Break / Exhibit Hall Open  

2:30 – 3:15 PM  Invited Speaker  
The next generation of cytogenetics and molecular genetics in leukemia diagnostics  
Torsten Haferlach, Munich Leukemia Laboratory  

Introduction: Rashmi Kanagal-Shamanna, MD Anderson  
Speaker Q&A  

3:15 – 4:00 PM  CGC Session 3: New Molecular Insights into Myeloid Hematologic Malignancies  
Moderator: TBD  

ETV6-PDGFRα fusions detected by FISH in acute myeloid leukemia with translocation t(4;12)(q12;p13) are false positive  
Sarah Mueller, Massachusetts General Hospital  

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  

4:00 – 4:25 PM  Platinum Vendor Showcase: SOPHiA Genetics (No CME or CEUs available)  

4:25 – 5:30 PM  Exhibit Hall Open  

5:30 – 6:15 PM  CGC Session 4: Integrating Genomics into Constitutional Analysis  
Moderator: TBD  

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
6:15 – 6:45 PM  Panel-Based Discussion: Navigating the evolution of cytogenetics

Tuesday, August 3, 2021

10:00 – 11:00 AM  CGC Session 5: Database Curation and Mining
Moderator: TBD

Standard procedure for the curation and maintenance of cancer-specific gene lists
Beth A. Pitel, Mayo Clinic

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
Michael Baudis, Universität Zürich

Session Q & A

11:00 – 11:45 AM  Invited Speaker
Title coming soon!
Subha Madhavan, Georgetown University

Introduction: Obi Griffith, Washington University
Speaker Q&A

11:45 AM – 12:30 PM  Diamond Vendor Showcase: Agilent Technologies
(No CME or CEUs available)

12:30 – 1:15 PM  Lunch Break / Exhibit Hall Open

1:15 – 2:10 PM  Roundtable Breakout Sessions – Topic list available online
Please make your selection during registration – only 16 spaces are available in each discussion topic

2:15 – 3:15 PM  Keynote Presentation
Towards population genomic screening for cancer susceptibility
Leslie G. Biesecker, National Human Genome Research Institute

Introduction: TBD
Speaker Q&A

3:15 – 4:00 PM  CGC Session 6: Genetic Spectrum of Vascular Anomalies and Overgrowth Syndromes
Moderator: TBD

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**

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<th>Time</th>
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<tr>
<td>4:00 – 4:25 PM</td>
<td><strong>Platinum Vendor Showcase: Natera</strong> <em>(No CME or CEUs available)</em></td>
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<td>4:25 – 5:30 PM</td>
<td><strong>Exhibit Hall Open</strong></td>
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<td>5:30 – 6:15 PM</td>
<td><strong>CGC Session 7: Advances in the Analysis of Hematologic Malignancies</strong></td>
<td><strong>Moderator:</strong> <em>TBD</em></td>
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<td>Characterization of atypical iAMP21 observed in B-Lymphoblastic Leukemia (B-ALL): a retrospective study from Mayo Clinic</td>
<td>Alaa Koleilat, <em>Mayo Clinic</em></td>
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<td>Complementarity of RNA sequencing and optical genome mapping in detection of rare fusions in pediatric B-ALL</td>
<td>Gordana Raca, <em>Children’s Hospital Los Angeles</em></td>
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<td>Archer system copy number alteration caller: User experience</td>
<td>Celeste Eno, <em>Cedars-Sinai Medical Center</em></td>
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<td>6:15 – 6:45 PM</td>
<td><strong>From oncology to pathology and genomics and back again: A 360-degree perspective on a unique B-cell leukemia</strong></td>
<td>Adrian Dubuc, Jacqueline Garcia, and Gabriel Griffin, <em>Brigham and Women’s Hospital</em></td>
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<td>6:45 – 8:00 PM</td>
<td><strong>After Hours Social</strong></td>
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**Wednesday, August 4, 2021**

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<tr>
<td>10:00 – 11:00 AM</td>
<td><strong>CGC Session 8: Hereditary Cancer/Cancer Predisposition</strong></td>
<td><strong>Moderator:</strong> <em>TBD</em></td>
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<td>Large scale analysis in Von Hippel-Lindau disease</td>
<td>Kristen Farncombe, <em>University Health Network</em></td>
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<td>Co-occurrence of rosette-forming glioneuronal tumors with Noonan syndrome</td>
<td>Marilena Melas, <em>Nationwide Children’s Hospital</em></td>
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<td>10-year retrospective analysis of BRCA germline mutation in multiethnic gynecologic patients form a U.S. cancer center</td>
<td>Christina Wei, <em>City of Hope National Medical Center</em></td>
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<td>Identification of TP53 germline variants in pediatric patients undergoing tumor testing</td>
<td>Minjie Luo, <em>Children’s Hospital of Philadelphia</em></td>
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<td><strong>Session Q &amp; A</strong></td>
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11:00 – 11:30 AM  Break: Announcements

11:30 AM – 12:30 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: Yassmine Akkari, Legacy Health

Speaker Q&A

12:30 – 1:15 PM  Diamond Vendor Showcase: Thermo Fisher Scientific
(No CME or CEUs available)

1:15 – 2:30 PM  Lunch Break / Exhibit Hall Open

2:30 – 3:20 PM  CGC Session 9: Updates from the CGC
Moderator: Yassmine Akkari, Legacy Health

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
Speacker TBD

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

3:20 – 3:45 PM  Platinum Vendor Showcase: Oxford Gene Technology
(No CME or CEUs available)

3:45 – 4:15 PM  CGC Session 10: Bioinformatics: Applications and Development
Moderator: TBD

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, Inc.

Session Q & A

4:15 – 5:15 PM  Exhibit Hall Open

5:15 – 6:15 PM  CGC Session 11: Unravelling Solid Tumors with Genomic Technologies
Moderator: TBD

Clinical utility and feasibility of adopting optical genome mapping for chromosomal characterization of solid tumors
Nikhil Sahajpal, Augusta University

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

6:15 – 6:45 PM  CGC 2021 Business Meeting and Closing Remarks