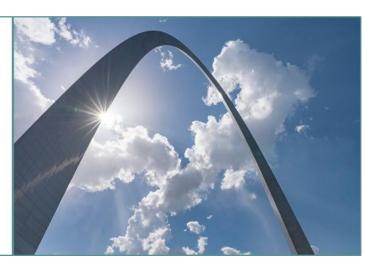


CGC 25th Annual Meeting

August 4 – 7, 2024 St. Louis, MO



Cancer Genomics Consortium, 15th Annual Meeting August 4-7, 2024

Hyatt Regency at the Arch, St. Louis, Missouri

SATURDAY, AUGUST 3, 2024

In-Person Unconference

Unconference participation incurs an additional registration fee.

9:00 AM – 5:00 PM In-Person VICC/CGC/CIViC/ClinGen Cancer Variant Curation and Coding Unconference

Presenters TBA

SUNDAY, AUGUST 4, 2024

Pre-Meeting Workshops

Workshop participation incurs an additional registration fee.

- 9:00 10:30 AM Leadership Workshop Moderators: Xiaoyu Qu, Fred Hutchinson Cancer Center and Teresa Smolarek, Cincinnati Children's Hospital Medical Center Presenter: Michael Johnson, University of Washington
- 10:30 10:45 AM Coffee Break for Workshop Attendees

10:45 AM – 12:15 PM Bioinformatics Workshop Moderator: Alex Wagner, Nationwide Children's Hospital Presenters: Malachi Griffith, Washington University in St. Louis School of Medicine Alan Rubin, Walter and Eliza Hall Institute Sumaiya Iqbal, Broad Institute

Opening of the 15th Annual Cancer Genomics Consortium

1:00 – 1:05 PM	Welcome Jane Houldsworth, Icahn School of Medicine at Mount Sinai
1:05 - 1:15 PM	Presidential Address Rashmi Kanagal-Shamanna, MD Anderson Cancer Center
1:15 – 2:15 PM	Keynote Presentation Enabling clinical translation of high-throughput functional assay data Alan Rubin, Walter and Eliza Hall Institute Introduction: Wesley Goar, Nationwide Children's Hospital
2:15 – 3:00 PM	Speed Abstracts Session I: Precisive genetic diagnosis of hematological and other malignancies Moderators: Zhenya Tang, University of Nebraska Medical Center and Xinyan Lu, Northwestern University Feinberg School of Medicine
	Enrichment of Hodgkin and Reed-Sternberg (HRS) cells using size-based microfiltration Brianna Munnich, Washington University in St. Louis School of Medicine Technologist Award
	Diagnostic next generation sequencing to Detect MYD88 L265P in lymphoplasmacytic lymphoma compared to ddPCR Lauren Wainman, Dartmouth-Hitchcock Medical Center
	Interplatform comparison of Stratys and Saphyr: Preliminary results of OGM clinical verification in hematologic cancers Eric McGinnis, Vancouver General Hospital
	The clinical implementation of technologies utilized for macrogenomic event detection in solid tumors Lisa Lansdon, Children's Mercy Kansas City & UMKC - School of Medicine
	Implementation of automatic slide processing for aneuploidy FISH test Wenhua Zhou, ARUP Laboratories
3:00 – 3:30 PM	Exhibitor Showcase: Illumina (No CME or CEUs available)
3:30 – 4:15 PM	Coffee Break Science Café Presentations
4:15 – 5:15 PM	Session 1: Diagnostic and prognostic impact of molecular profiling across hematological neoplasms Moderators: Amanda Dixon-McIver, <i>IGENZ</i> and Laveniya Satgunaseelan, <i>Royal Prince Alfred Hospital</i>
	Hot-spot D816 KIT has different clinical outcome compared to non-D816 KIT variants in myeloid neoplasms Barina Aqil, Northwestern University Feinberg School of Medicine

	Implementation and utility of gene expression profile (GEP)-based classification of pediatric b-lymphoblastic leukemia Gordana Raca, <i>Children's Hospital Los Angeles</i> Reduced subclone diversity in clonal cytopenia of undetermined significance compared to myelodysplastic syndrome Sridhar Nonavinkere Srivatsan, <i>Washington University School of Medicine in St</i> <i>Louis</i>
	Best practices for testing and reporting of FISH studies in multiple myeloma: Recommendations from the CGC working group Xinyan Lu, Northwestern University Feinberg School of Medicine
5:15 – 5:45 PM	Speed Abstracts Session II: Standardization, bioinformatics workflows, and data integration for personalized healthcare Moderators: Angela Lager, <i>University of Chicago</i> and Nathan Kopp, <i>Medical</i> <i>College of Wisconsin</i>
	Standardizing fusion calls in a computable format with FUSOR for downstream clinical assessment Jeremy Arbesfeld, The Ohio State University
	Developing a robust bioinformatics workflow to support personalized neoantigen vaccine clinical trials Kartik Singhal, <i>Washington University in St Louis</i>
	Contextualizing clinical significance using FDA label supplemented DGI data
	Matthew Cannon, Nationwide Children's Hospital Trainee Award
	AmpliconSuite: Analyzing focal amplifications in cancer genomes Bhargavi Dameracharla, University of California, San Diego
5:45 - 8:00 PM	Welcome Reception CGC Exhibit Hall, Grand Ballroom ABCD
	MONDAY, AUGUST 5, 2024

8:30 – 9:30 AM Keynote Presentation Melissa B. Davis, *Morehouse School of Medicine* Introduction: Thuy Phung, *University of South Alabama*

9:30 – 10:15 AM Session 2: Genomic equity and inclusivity: Bridging the gap in diagnostics and personalized care across diverse populations Moderator: Rashmi Kanagal-Shamanna, *MD Anderson Cancer Center*

> Ethnic and molecular disparities in prostate adenocarcinoma incidence: data from 19 cohort studies Amy Brady, *SUNY Upstate Medical University* Trainee Award

	Clinical impact of in-house molecular testing for underserved cancer patients in southern Alabama Thuy Phung, University of South Alabama
	An evaluation of clinical significance of the TP53 polyadenylation signal- disrupting variant rs78378222-G Dayo Shittu, NIH/National Human Genome Research Institute
10:15 – 10:45 AM	Panel Discussion Moderator: Rashmi Kanagal-Shamanna, MD Anderson Cancer Center
10:45 – 11:30 AM	Coffee Break with Exhibitors Science Café Presentations
11:30 AM – 12:00 PM	Exhibitor Showcase: Guardant (No CME or CEUs available)
12:00 – 12:30 PM	Invited Speaker Presentation Current and Future Integrations of Genomics and AI Chad Vanderbilt, Memorial Sloan Kettering Cancer Center Introduction: Chuan Gao, Memorial Sloan Kettering Cancer Center
12:30 – 1:00 PM	Speed Abstracts Session III: Integrated sample processing and genomic analysis approaches that improve diagnostic yield for hematologic malignancies Moderators: Xiaoyu Qu, Fred Hutchinson Cancer Center and Xinrui Shi, University of Virginia
	Intrachromosomal amplification of chromosome 21 as the sole chromosomal aberration in a primary AML patient Leila Youssefian, University of California, Los Angeles
	Tumor specific cell sorting improves sensitivity of FISH: Implications for patients with hematologic malignancies Luise Hartmann, <i>Hematologics Inc.</i>
	High resolution cytogenomic analysis reveals characterizing abnormalities in APL-like leukemia Shivaprasad Sathyanarayana, <i>Dartmouth Hitchcock Medical Center</i>
	FIP1L1::KIT fusion in a case of peripheral T-cell lymphoproliferative neoplasm responsive to tyrosine kinase inhibitor Kristin Deeb, <i>Emory University</i>
1:00 – 1:15 PM	CGC Updates Rashmi Kanagal-Shamanna, MD Anderson Cancer Center (No CME or CEUs available)

1:15 – 2:15 PM	Buffet Lunch Exhibit Hall and Foyer
2:15 – 3:15 PM	Session 3: Advances in molecular profiling for tumor risk assessment and management Moderators: Lynne Abruzzo, Medical University of South Carolina and Kristin Deeb, Emory University School of Medicine
	Methylation profiling more accurately predicts recurrence risk in meningiomas compared to current WHO grading criteria Lucas Santana dos Santos, Northwestern University
	Advancing personalized prostate cancer care: Utilizing miRNA profiling and machine learning for metastasis prediction Gobi Thillainadesan, Sunnybrook Research Institute
	Detection of somatic tumor mutations in circulating plasma DNA of patients with sellar and skull base tumors Mallory Tucker, University of Washington
	Methylation sequencing enhances interpretation of clonal hematopoiesis dynamics Alyssa Parker, Vanderbilt University Trainee Award
3:15 – 3:45 PM	Panel Discussion Moderators: Lynne Abruzzo, Medical University of South Carolina and Kristin Deeb, Emory University School of Medicine
3:45 – 4:00 PM	Exhibitor Showcase (No CME or CEUs available)
4:00 – 4:15 PM	Exhibitor Showcase (No CME or CEUs available)
4:15 – 5:00 PM	Coffee Break with Exhibitors Science Café Presentations
5:00 – 5:30 PM	Invited Speaker Presentation Interpretable and context-free deconvolution of multi-scale transcriptomic lung cancer data Robert Sebra, Icahn School of Medicine at Mount Sinai Introduction: Huan Mo, NHGRI
5:30 – 6:30 PM	Session 4: Global initiatives in enhancing interpretation of the somatic genome Moderators: Avinash Dharmadhikari, <i>Children's Hospital Los Angeles/</i> <i>University of Southern California Keck School of Medicine</i> and Leila Youssefian, <i>University of California, Los Angeles</i>
	Enhancing precision oncology: the value of open-source knowledgebase integration

Cameron Grisdale, Canada's Michael Smith Genome Sciences Centre

Classifying the oncogenicity of 100 variants from pediatric cancer patients using a standardized assessment framework Wesley Goar, Nationwide Children's Hospital

Somatic genomic testing and variant curation practices in Australian and New Zealand diagnostic testing laboratories Grace Pendlebury, Australian Genomics & QIMRB Berghofer

Addition of non-gene features to the CIViC data model Arpad Danos, *Washington University in St. Louis*

6:30 – 8:00 PM Early Career Social For attendees in training or recently out of training Park View Room, Fourth Floor

TUESDAY, AUGUST 6, 2024

- 8:30 9:00 AM Invited Speaker Presentation TBA pending approval from the FDA
- 9:00 9:30 AM Invited Speaker Presentation To a carpenter, every problem is a nail: The FDA brings a hammer to diagnostic medicine Dara Aisner, University of Colorado Anschutz Medical Campus Introduction: Fady Mikhail, University of Alabama at Birmingham
- 9:30 10:15 AM Session 5: Development of resources for the reimbursement and clinical reporting standardization of cancer genomic testing Moderators: Fady Mikhail, University of Alabama at Birmingham and Niroshi Senaratne, University of California Los Angeles

Reimbursement for molecular pathology testing for neoplasia: The 2024 update Xiaoyu Qu, Fred Hutchinson Cancer Center

Current next generation sequencing reporting practices: a GOAL Consortium report Celeste Eno, Cedars-Sinai Medical Center

A cross-consortia initiative for aligning the definitions and descriptions of gene fusions Alex Wagner, Nationwide Children's Hospital

10:15 – 10:45 AM Panel Discussion Moderator: Yassmine Akkari, Nationwide Children's Hospital (No CME or CEUs available)

10:45 – 11:30 AM	Coffee Break with Exhibitors Science Café Presentations
11:30 – 11:45 AM	Exhibitor Showcase (No CME or CEUs available)
11:45 AM – 12:00 PM	Exhibitor Showcase (No CME or CEUs available)
12:00 – 12:30 PM	Invited Speaker Presentation Cell-free DNA and AI technology for liquid biopsy detection of cancer early and prediction of cancer treatment response Aadel Chaudhuri, <i>Mayo Clinic</i> Introduction: Trevor Pugh, <i>University of Toronto</i>
12:30 – 2:00 PM	In-Person Round Table Discussions with Lunch Table topic selection was during conference registration. Hyatt Regency Fourth Floor Foyer and Mills Meeting Rooms
2:00 – 2:30 PM	Speed Abstract Session IV: Innovative tools and challenges in genetic variant analysis Moderators: Chuan Gao, Memorial Sloan Kettering Cancer Center and Xinming Zhuo, Columbia University
	pVACsplice: A computational tool for predicting and prioritizing alternative splicing neoantigens My Hoang, Washington University School of Medicine in St. Louis
	Customize your variant interpretation workflow with OpenCRAVAT Rachel Karchin, Johns Hopkins University
	Identifying challenges in variant normalization Anastasia Bratulin, The Ohio State University
2:30 – 2:45 PM	Exhibitor Showcase (No CME or CEUs available)
2:45 – 3:30 PM	Coffee Break with Exhibitors Science Café Presentations
3:30 – 4:30 PM	Keynote Presentation Precision interception in multiple myeloma and it's precursor conditions Irene Ghobrial, Dana Farber Cancer Institute Introduction: Linda Baughn, Mayo Clinic
4:30 – 6:00 PM	Poster Session CGC Exhibit Hall, Grand Ballroom ABCD

5:45 – 9:00 PM Departure for Pre-Registered Social Activities

On-site registration may be available – please check with the meeting registration desk if you are interested in attending one of these events. Participants pick up tickets at the CGC 2024 Registration Desk.

- St. Louis Riverboat Cruise: Meet at 5:30 PM in the Hyatt Regency Lobby to walk to the river entrance on the far side of the arch. Boat loads at 5:45 PM and departs promptly at 6:00 PM. Cruise is one hour in length.
- St. Louis Cardinals vs. Tampa Bay Rays: Meet at 6:00 PM in Hyatt Regency Lobby to walk to the event together or join the group at Busch Stadium. Game starts at 6:45PM.
 Bowling:
 - Meet at 6:00 PM in Hyatt Regency Lobby to get to the event together or join the group at Flamingo Bowl. Reservations at 6:30PM.

WEDNESDAY, AUGUST 7, 2024

9:00 – 10:00 AM Session 6: Genomic analyses of solid tumors: Arrays, sequencing and developing a gene list Moderators: Teresa Smolarek, *Cincinnati Children's Hospital Medical Center* and Rebecca Smith, *Vanderbilt University Medical Center* Integrated comprehensive genomic profiling of meningiomas: A single institutional study Mohana Priya Jayavel, *Northwestern Memorial Hospital* Technologist Award

> Significant copy number variants and loss of heterozygosity in Wilms tumor: Insights from Nationwide Pediatric Oncology Melanie Babcock, Nationwide Children's Hospital and The Ohio State University

The clinical utility of the TSO500 clinically-verified test in patients with solid tumors - The Mayo Clinic experience Hussam Al Kateb, *Mayo Clinic*

Formation of a tumor-specific gene list: the Central Nervous System (CNS) tumor taskforce experience Madina Sukhanova, *Feinberg School of Medicine Northwestern University*

10:00 – 11:00 AM Session 7: Updates in oncogenicity guidelines and classification rules for prioritizing variants in somatic disease Moderators: Wahab Khan, Dartmouth Hitchcock Medical Center, and Michael Babcock, Dahl-Chase Diagnostic Services

Modifying cancer variant interpretation guidelines for the curation of histone H3 variants - the 'next step' of the Cl Laveniya Satgunaseelan, *Royal Prince Alfred Hospital*

Prioritization of defining and supportive diagnostic variants in pediatric tumors

Laura Corson, Oncology Consultant

Step 2 updates for the oncogenic assessment of FLT3 variants by the ClinGen FLT3 Somatic Cancer Variant Curation expert Nathan Kopp, *Medical College of Wisconsin*

Piloting NTRK fusion-specific oncogenicity guidelines: Lessons learned Jason Saliba, *Washington University School of Medicine*

11:00 – 11:30 AM Coffee Break with Exhibitors

11:30 AM – 12:30 PM Session 8: Advancements in cancer-adjacent genetic diagnostics: Guidelines, assays, and case studies Moderators: Alex Wagner, Nationwide Children's Hospital and the Ohio State University College of Medicine and Grace Pendlebury, Australian Genomics & QIMR Berghofer MRI

Challenges of classifying variants associated with disorders of somatic mosaicism and guideline creation Alexa Dickson, Washington University in St Louis

UMI-based expanded NGS panel in precision molecular diagnosis of vascular anomalies: Early results Avinash Dharmadhikari, *Children's Hospital Los Angeles*

Examining potential candidate genes within deletions of 3p14.2 to 3p14.1 in two cases of autism and developmental delay Rebecca Smith, Vanderbilt University Medical Center

Clinical SNP-array adds value to diagnosis and surveillance of bone marrow failure syndromes Lucilla Pizzo, *University of Utah, ARUP Laboratories*

12:30 – 1:00 PM CGC 2024 Business Meeting