



# CIViC

**Clinical Interpretation of  
Variants in Cancer**

## VICC

Variant Interpretation  
for Cancer Consortium



ClinGen  
Clinical Genome Resource

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**Knowledgebase Hackathon &  
Curation Jamboree**

*at the*

**Cancer Genomic Consortium  
Annual Meeting, 2023**

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**Hyatt Regency St. Louis  
at the Arch**

**Saturday, August 12<sup>th</sup>  
8am to 5pm**

**Precision medicine refers to the use of prevention and treatment strategies that are tailored to the unique features of each individual and their disease.** In the context of cancer this might involve the identification of specific mutations shown to predict response to a targeted therapy. The biomedical literature describing these associations is large and growing rapidly. Currently these interpretations exist largely in private or encumbered databases resulting in extensive repetition of effort. Realizing precision medicine will require this information to be centralized, debated and interpreted for application in the clinic. Open access, open source, community-driven resources are needed to support cancer variant curation and interpretation in a disease-specific context.

**VICC** - The Variant Interpretation for Cancer Consortium ([cancervariants.org](http://cancervariants.org)) is a Driver Project of the Global Alliance for Genomics and Health. VICC's mission is to standardize the curation, representation, and interpretation of clinically-relevant evidence associated with genomic variation in cancers.

**CIViC** - The Clinical Interpretation of Variants in Cancer knowledgebase ([civicdb.org](http://civicdb.org)) aims to enable precision medicine by providing an educational forum for curation and dissemination of knowledge with active discussion of the clinical significance of cancer genome alterations.

**ClinGen Somatic** - The ClinGen Somatic Cancer Clinical Domain Working Group ([clinicalgenome.org/working-groups/clinical-domain/somatic-cancer-cdwg](http://clinicalgenome.org/working-groups/clinical-domain/somatic-cancer-cdwg)) facilitates the development of data curation guidelines and standards to determine the clinical actionability of somatic alterations in cancer, thereby enhancing their usability, dissemination, and implementation.

A hackathon and curation jamboree will be held as a pre-meeting of the Cancer Genomics Consortium (CGC) Annual Meeting, lead by VICC, in collaboration with the CIViC project team and ClinGen Somatic.

The focus of this meeting will be to continue developing community consensus on data standards for interpretation of variants in cancer, engage software developers for improved variant



interpretation software and data visualizations, and engage clinical experts for curation of content and enhance integration and interoperability of resources. Additional related topics will be proposed by meeting participants.

### Meeting Goals

The goals of the Curation Jamboree and Knowledge Hackathon include, but are not limited to:

- Establish community standards and best practices for general and domain specific curation and representation of clinically actionable and driver variants in cancer.
- Promote formation of a collaborative network for community-based development of precision medicine resources.
- Enhance integration and interoperability of resources through entity standardization, API improvements, and ontology usage.
- Develop best practices for data visualizations.
- Improve drug normalization in variant interpretation knowledgebases.
- Further develop text-mining strategies for identifying evidence of clinically actionable variants.
- Examine ways to incentivize the curation community.
- Teach participants how to use CIViC 2.0 UI & APIs.
- Explore additional meeting topics proposed by meeting participants (see below).

### Propose a Topic of Interest

To submit a topic not covered above, participants may create an issue describing a proposed topic and apply the 'hackathon' or 'curation' label at: [github.com/griffithlab/civic-meeting](https://github.com/griffithlab/civic-meeting)

### Meeting Format

The Cancer Variant Interpretation hackathon and jamboree will take the form of an unconference with minimal presentations and an emphasis on hands-on activities, breakout sessions to discuss emerging standards, learning to curate variants, or work on tools for variant interpretation or site optimization. Participants will self-form into groups to tackle domain-specific variant or disease curation (jamboree), programmatic data querying (hackathon), the problem of motivating public resource curation, or

other topics proposed by meeting participants.

**Prerequisites:** Participants should bring their own laptop in order to participate.

### Hackathon Target Audience

Software developers, engineers, computational biologists, and bioinformaticians interested in learning how to interact with CIViC 2.0 or related tools to facilitate variant interpretation and resource automation and optimization.

**Prerequisites:** Familiarity with Ruby, Wiki syntax, and/or Python would be beneficial.

### Curation Jamboree Target Audience

Laboratory geneticists, pathologists and oncologists, genome scientists, and those interested in the problem of sequence and structural variant interpretation for cancer precision medicine or promotion of public biocuration resources.

**Prerequisites:** Basic understanding of the genetic basis of cancer.

### Bug Reports and Feature Requests

For CIViC, please create an issue in CIViC's github repository: [github.com/griffithlab/civic-v2/issues](https://github.com/griffithlab/civic-v2/issues)

### Curation Help

For questions or assistance with the CIViC curation interface, please email: [help@civicdb.org](mailto:help@civicdb.org)

## ORGANIZING COMMITTEE (\*WUSTL, \*\*NCH)

Obi Griffith*	CIViC, VICC	<a href="mailto:obigriffith@wustl.edu">obigriffith@wustl.edu</a>
Malachi Griffith*	CIViC, VICC	<a href="mailto:mgriffit@wustl.edu">mgriffit@wustl.edu</a>
Susanna Kiwala*	CIViC	<a href="mailto:susanna.kiwala@wustl.edu">susanna.kiwala@wustl.edu</a>
Arpad Danos*	CIViC	<a href="mailto:adanos@wustl.edu">adanos@wustl.edu</a>
Kilannin Krysiak*	CIViC	<a href="mailto:kkrysiak@wustl.edu">kkrysiak@wustl.edu</a>
Adam Coffman*	CIViC	<a href="mailto:acoffman@wustl.edu">acoffman@wustl.edu</a>
Josh McMichael*	CIViC	<a href="mailto:jmcmicha@wustl.edu">jmcmicha@wustl.edu</a>
Mariam Khanfar*	CIViC	<a href="mailto:k.mariam@wustl.edu">k.mariam@wustl.edu</a>
Jason Saliba*	CIViC	<a href="mailto:jsaliba@wustl.edu">jsaliba@wustl.edu</a>
Wesley Goar**	VICC	<a href="mailto:wesley.goar@nationwidechildrens.org">wesley.goar@nationwidechildrens.org</a>
Kori Kuzma**	VICC	<a href="mailto:kori.kuzma@nationwidechildrens.org">kori.kuzma@nationwidechildrens.org</a>
Alex Wagner**	VICC	<a href="mailto:alex.wagner@nationwidechildrens.org">alex.wagner@nationwidechildrens.org</a>
Anastasia Bratulin**	VICC	<a href="mailto:anastasia.smith@nationwidechildrens.org">anastasia.smith@nationwidechildrens.org</a>
Jeremy Arbesfeld**	VICC	<a href="mailto:jeremy.arbesfeld@nationwidechildrens.org">jeremy.arbesfeld@nationwidechildrens.org</a>



# AGENDA

**Saturday, August 12th**

**Hyatt Regency St. Louis at the Arch**

**08:00 -** Registration with Coffee and a Light Breakfast  
**08:30**

**08:30 -** Introduction to the Conference, and a  
**08:35** Welcome from the Hosts

**Obi Griffith**

**08:35 -** Curation and Hackathon Expectations, Goals, Topics  
**08:40**

**Kori Kuzma**

**08:40 -** Elevator Pitches from Organizers and Attendees with Topic  
**09:20** Proposals

**Arpad Danos, Wes Goar, Jeremy Arbesfeld & others**

**09:20 -** **Break Out into Jamboree & Hackathon Groups**  
**09:30** Morning snacks will be provided.

**09:30 -** **Curation Jamboree & Hackathon**  
**12:00** Parallel Sessions

**12:00 -** **Catered Lunch**  
**13:00**

**13:00 -** **Curation Jamboree & Hackathon**  
**15:00** Parallel Sessions Continue,  
Nominate Group Representatives, Prepare to Present

**15:00 -** **Regroup for Coffee & Cookies**  
**15:15**

**15:15 -** Presentations from Group Representatives  
**16:45**

**16:45 -** GA4GH 101  
**16:55**

**16:55 -** Concluding Remarks  
**17:00** **Alex Wagner**

**17:00 -** Travel to Networking Social  
**18:00**

**18:00 -** GA4GH Networking Social (cocktail reception)  
**21:00** at **360° STL Rooftop Bar and Restaurant**  
One South Broadway, St. Louis 63102  
T: +1 314 241 8439

## PARTICIPANTS

Full Name	Organization	Email
Abdullah Alsuwaidan	KFSHRC	ans150@gmail.com
Jeremy Arbesfeld	OSU	arbesfeld.1@osu.edu
Lisa Brailey	Mt. Sinai School of Medicine	lisa.brailey@mssm.edu
Anastasia Bratulin	OSU	Anastasia.smith@nationwidechildrens.org
Andrew Bredemeyer	Velsera	andrew.bredemeyer@velsera.com

Paulo Campregher	Hospital Israelita Albert Einstein	paulo.campregher@einstein.br
Matthew Cannon	NCH	Matthew.Cannon2@nationwidechildrens.org
Melissa Cline	UC Santa Cruz	mcline@ucsc.edu
Gregory Corboy	Pathology Queensland	gregcorboy@bigpond.com
Susan Crocker	Kingston HSC	susan.crocker@kingstonhsc.ca
Matthew Croken	Mount Sinai Hospital System	matthew.croken@mountsinai.org
Arpad Danos	WUSTL	adanos@wustl.edu
Kristin Deeb	Emory University	kristin.deeb@emory.edu
Wesley Goar	NCH	wesley.goar@nationwidechildrens.org
Shivani Golem	KUMC	sgolem@kumc.edu
Obi Griffith	WUSTL	obigriffith@wustl.edu
Mary Haddadin	FULGENT/CSI	mah9314@med.comell.edu
Jennelle Hodge	Indiana U.	jhodge1@iu.edu
Sachin Jadhav	HealthCare Global	drsachinjadhav@hotmail.com
Nafiseh Jafari	nRichDX	njafari@nrchdx.com
Rashmi Kanagal-Shamanna	MD Anderson Cancer Center	Rkanagal@mdanderson.org
Sibel Kantarci	Quest Diagnostics	sibel.x.kantarci@questdiagnostics.com
Mariam Khanfar	WUSTL	k.mariam@wustl.edu
Kilannin Krysiak	WUSTL	kkrysiak@wustl.edu
Kori Kuzma	NCH	kori.kuzma@nationwidechildrens.org
Jie Liu	CCHMC	jie.liu@cchmc.org
Meenakshi Mehrotra	Mount Sinai Hospital	meenakshi.mehrotra@mountsinai.org
Katie Miller	NCH	katherine.miller@nationwidechildrens.org
Laila Mnayer	Hartford Health-care	laila.mnayer@hhchealth.org
Huan Mo	NHGRI	henryhmo@gmail.com
Sugganth Pillei	Illumina	sdaniel1@illumina.com
Beth Pitel	Mayo Clinic	beth.pitel@gmail.com
Catherine Procknow	Epic	cprockno@epic.com
Daniel Puthawala	NCH	daniel.puthawala@nationwidechildrens.org
Xiaoyu Qu	Fred Hutchinson Cancer Center	quxiaoyu@hotmail.com
Fabiola Quintero-Rivera	UCI	fabiolaq@hs.uci.edu
Brendan Reardon	Dana-Farber	breardon@broadinstitute.org
Deborah Ritter	Baylor	dritter@bcm.edu
Diana Rush	bionano	dianayp@hotmail.com
Jason Saliba	WUSTL	jsaliba@wustl.edu



## PARTICIPANTS (continued)

Nicholas Schafer	Constantiam Bio	npschafer@constantiambio.com	Karen Tsuchiya	NCH	karen.tsuchiya@nationwidechildrens.org
Kathleen Schieffer	NCH	kathleen.schieffer@nationwidechildrens.org	Alex Wagner	NCH	alex.wagner@nationwidechildrens.org
Greg Sharpe	Epic	gsharpe@epic.com	Rodney Wiltshire		rodneville01@gmail.com
Rebecca Smith	Vanderbilt U.	rebecca.b.smith@vumc.org	Haleh Farzanmehr	Zhina-X Genomics	hfarzanmehr@zhinaxgenomics.com
Kathryn Stahl	NCH	kathryn.stahl@nationwidechildrens.org	Sophie Fiola	QIAGEN	sophie.fiola@qiagen.com
James Stevenson	NCH	james.stevenson@nationwidechildrens.org	William Glen	Medical U. of South Carolina	glen@musc.edu
Madina Sukhanova	Feinberg School of Medicine	madina.sukhanova@nm.org	Gordana Raca	USC	graca@chla.usc.edu
Mrinal Thomas	Epic	mrinal@epic.com	Yao Yao	Scripps	yyao@scripps.edu
Gokce Toruner	MD Anderson	gatoruner@mdanderson.org	Kevin Lai	WUSTL	klai@wustl.edu

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[www.civicdb.org](http://www.civicdb.org)