

# Clinical Atlas of Variant Effects Workshop

Developing recommendations to produce a maximally useful Clinical Atlas of Variant Effects by 2030.

#### Location and details

July 23rd, 2024
8am-9am Arrival, breakfast, and funders meeting
9am-5pm Workshop (includes lunch)
7pm-9pm Dinner

The Oaklander Hotel, The Cathedral Room 5130 Bigelow Boulevard, Pittsburgh, Pennsylvania 15213

### Meeting materials

- Event Website
- Participant Bios
- Short explainer
- Straw Proposals
- Slide deck for report outs

#### Agenda overview

- I. Welcome and charge for the day
- II. Setting the stage and straw proposal introduction
- III. Deep discussion of straw proposals five year goals and scope
- IV. Strengths, weaknesses and opportunities based on where we are now
- V. Roadmap to 2030 developing a tech, infrastructure, and coordination strategy
- VI. Synthesis, prioritization and action Items



## Clinical Atlas of Variant Effects Workshop Tuesday, July 23rd, 2024 8:00am-5:00pm EDT

Location: All events in The Cathedral Room | Oaklander Hotel unless otherwise noted

Start (EDT)	End (EDT)	Agenda item Speaker(s)
8:00am	9:00am	Arrival, breakfast and coffee
		Funders breakfast (The George Boardroom)
9:00am	9:05am	Welcome Frederick 'Fritz' Roth, University of Pittsburgh, USA
9:05am	9:35am	Charge for the day (5 minutes) Jonah Cool, Chan Zuckerberg Initiative, USA Carolyn Hutter, National Human Genome Research Institute, USA
		Technology (5 minutes) Douglas Fowler, University of Washington, USA
		Infrastructure and community (5 minutes) Frederick 'Fritz' Roth, University of Pittsburgh, USA
		Clinical translation (5 minutes) Heidi Rehm, Broad Institute/Mass General Hospital, USA
		Data production (5 minutes) With a focus on Strengths and Weaknesses and Opportunities Matthew Hurles, Director Wellcome Sanger Institute, Hinxton, UK
		Session Goals:  ➤ Introduce goals for the day  ➤ Level setting/background
9:35am	9:50am	AVE 2030 straw proposals summary Douglas Fowler, Professor, University of Washington, USA Matthew Hurles, Director Wellcome Sanger Institute, Hinxton, UK
9:50am	10:05am	Whole-group discussion of straw proposals  Moderator(s): Jonah Cool
10:05am	10:35am	Breakout discussion of straw proposal goals and scope  Moderator(s): Fritz Roth  Goal: Identify high-level goal(s) for an atlas in a five year timeframe



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		Task: Join one of the 6 breakout groups listed below, aiming for ~6 individuals per group. Discuss goals and scope for an atlas, with a five year timeframe in mind. Your group might refine straw proposal goals, combine them or advance entirely different ones. Use the documents below to take notes or develop ideas.  Breakout 1: (google doc link) Breakout 2: (google doc link) Breakout 3: (google doc link) Breakout 4: (google doc link) Breakout 5: (google doc link) Breakout 6: (google doc link)
10:35am	10:45am	Breakout group wrap up and synthesis
		Task: Capture your breakout discussion and conclusions in the slides linked below. We suggest allotting some time for independent reflection and note-writing as well as for breakout group discussion. Identify a reporter to present a two minute summary using the slide(s) provided.  Slide deck for report outs
10:45am	11:15am	Break
11:15am	11:45am	Breakout report out and discussion  Moderator for this session: Fritz Roth  ➤ Breakout groups report back (two minutes per group)  ➤ Whole group discussion of straw proposal goals and scope
11:45am	11:50am	Group photo
11:50am	12:50pm	Lunch
12:50pm	2:00pm	Where we are now: strengths, weaknesses and opportunities  Moderator(s) for this session: Carolyn Hutter and Lara Muffley  Goals:  ➤ Identify what is working well and begin to identify how we can build on momentum  ➤ Identify what is working poorly or not working at all, and identify how we can gain momentum or set these items aside for later  Task:  ➤ Brainstorm strengths, weaknesses and opportunities (one station for each) of current efforts towards building a Clinical Atlas of Variant Effects. Give considerations to the following categories (~10 min).



		<ul> <li>Technology</li> <li>Infrastructure</li> <li>Clinical translation</li> <li>Data production</li> <li>Other</li> <li>Rotate through the three stations to share/discuss/prioritize (~30 min)</li> <li>Summarize strengths, weaknesses and opportunities (each group reporting back; ~20 min)</li> </ul>
2:00pm	2:20pm	Break
2:20 pm	3:40pm	Defining a roadmap to 2030  Moderator for this session: Heidi Rehm
		Session Goals:  ➤ Identify major activities needed to achieve 2030 goals  ➤ Develop plans to facilitate identified activities  ➤ Consider who should do the work and how they should be incentivized/motivated  ➤ Identify resources that are needed from other groups/consortia  ➤ Discuss coordination between labs and consortia
		<ul> <li>Task:</li> <li>➤ Join your pre-assigned breakout group, which is noted on the back of your name-badge</li> <li>➤ Contemplate the goals of this session and use the question prompts to lead discussions.</li> </ul>
		Use the documents below for questions to consider and to take notes: Clinical translation (Breakout group A) Clinical translation (Breakout group B) Data production (Breakout group A) Data production (Breakout group B) Infrastructure, standards & community (Breakout group A) Infrastructure, standards & community (Breakout group B) Technologies and tools - What is missing? (Breakout group B) Technologies and tools - What is missing? (Breakout group B)
3:40pm	3:50pm	Breakout group wrap up and synthesis
		<b>Task:</b> Capture your breakout discussion and conclusions in the slides linked below. We suggest allotting some time for independent reflection and note-writing as well as for breakout group discussion. Identify a reporter to present a two minute summary using the slide(s) provided. <u>Slide deck for report outs</u>



3:50pm	4:20pm	Breakout report out and discussion  Moderator for this session: Heidi Rehm  ➤ Synthesis session (each group reporting back)  ➤ Facilitated discussion of the Roadmap to a Clinical Atlas of Variant Effects by 2030
4:20pm	4:35pm	Break
4:35pm	5:05pm	Recap and synthesis session  Douglas Fowler, Professor, University of Washington, USA  Matthew Hurles, Director Wellcome Sanger Institute, Hinxton, UK  Session Goals:  ➤ Develop a coherent set of recommendations for international coordination to produce a maximally useful Atlas.  ➤ Generation of an improved proposal
7:00pm	9:00pm	Dinner (Lucca Ristorante, 317 South Craig Street)