

Final Agenda (2020)

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Monday, July 27, 2020

9:00 - 9:30 AM Pacific Time / 12:00 - 12:30 PM Eastern Time

Welcome and Introductions - Christina Daulton, Belen Hurle, Ph.D. and Carla Easter, Ph.D.

*30-minute break (9:30 - 10:00 AM Pacific Time / 12:30 - 1:00 PM Eastern Time)*

10:00 - 10:50 AM Pacific Time / 1:00 - 1:50 PM Eastern Time

Live Q&A with Vence Bonham, J.D. - Health disparities case study - sickle cell disease

To prepare, read: [A CRISPR focus on attitudes and beliefs toward somatic genome editing from stakeholders within the sickle cell disease community](#)

*10-minute break (10:50 - 11:00 AM Pacific Time / 1:50 - 2:00 PM Eastern Time)*

11:00 AM - 12:00 PM Pacific Time / 2:00- 3:00 PM Eastern Time

Live Q&A with Philip Shaw, B.M. B.Ch., Ph.D.

To prepare, watch Dr. Shaw's lecture: [Attention deficit hyperactivity disorder: insights from neuroimaging and genomics](#)

*1-hour break (12:00 - 1:00 PM Pacific Time / 3:00 - 4:00 PM Eastern Time)*

1:00 - 2:00 PM Pacific Time / 4:00 - 5:00 PM Eastern Time

LIVE KEYNOTE: Eric Green, M.D., Ph.D., NHGRI Director

*From the Human Genome Project to Precision Medicine: A Journey to Advance Human Health*

*15-minute break (2:00 - 2:15 PM Pacific Time / 5:00 - 5:15 PM Eastern Time)*

2:15 - 3:45 PM Pacific Time / 5:15 - 5:45 PM Eastern Time

Live: Training opportunities at the NIH with Josh Farr, Short Course Alumnus; Joey Wilcox, Short Course Alumnus; Heather Dorsey-Hirt, NIH Summer Student; Belen Hurle Ph.D., Moderator

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Tuesday, July 28, 2020

9:00 - 9:30 AM Pacific Time / 12:00 - 12:30 PM Eastern Time

Daily Check-in

*30-minute break (9:30 - 10:00 AM Pacific Time / 12:30 - 1:00 PM Eastern Time)*

**10:00 - 10:50 AM Pacific Time / 1:00 - 1:50 PM Eastern Time**

**Live Journal Club and Q&A** with Sara Chandros Hull, Ph.D.

To prepare, read: [Constructing identities: the implications of DTC ancestry testing for tribal communities](#)

**10-minute break (10:50 - 11:00 AM Pacific Time / 1:50 - 2:00 PM Eastern Time)**

**11:00 AM - 12:00 PM Pacific Time / 2:00- 3:00 PM Eastern Time**

**Live Q&A** with Shawn Burgess, Ph.D.

To prepare, watch Dr. Burgess's lecture: [Using CRISPR/Cas9 to knock-in or knock-out genes](#)

**Live Q&A** with Sean Conlan, Ph.D.

To prepare, watch Dr. Conlan's lecture: [The Human Microbiome](#)

**1-hour break (12:00 - 1:00 PM Pacific Time / 3:00 - 4:00 PM Eastern Time)**

**1:00 - 2:00 PM Pacific Time / 4:00 - 5:00 PM Eastern Time**

**Live Q&A:** The Human Microbiome: Lesson Plans Inspired by the Short Course with Short Course Alumni & Microbiome Lesson Plan Co-leaders - Karla Fuller, Ph.D. and Andrew Lee

**15-minute break (2:00 - 2:15 PM Pacific Time / 5:00 - 5:15 PM Eastern Time)**

**2:15 - 3:45 PM Pacific Time / 5:15 - 5:45 PM Eastern Time**

Office Hours as needed with Belen & Christina

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**Wednesday, July 29, 2020**

**9:00 - 9:30 AM Pacific Time / 12:00 - 12:30 PM Eastern Time**

Daily Check-in

**30-minute break (9:30 - 10:00 AM Pacific Time / 12:30 - 1:00 PM Eastern Time)**

**10:00 - 10:50 AM Pacific Time / 1:00 - 1:50 PM Eastern Time**

**Live Hands-on:** An Introduction to Bioinformatics Workshop with Joseph Wilcox, Short Course Alumnus. *For the live hands-on portion, you will need a laptop with solid internet access.*

**10-minute break (10:50 - 11:00 AM Pacific Time / 1:50 - 2:00 PM Eastern Time)**

**11:00 AM - 12:00 PM Pacific Time / 2:00- 3:00 PM Eastern Time**

**Live:** CRISPR Hands-on Demonstration with Belen Hurle, Ph.D.

To prepare, have your CRISPR kit ready to go (mailed to you).

**Live:** DIY Genome: Unlocking Life's Code Pop-up Exhibit with Kim Jacoby Morris, Ph.D. and Rosann Wise

**1-hour break (12:00 - 1:00 PM Pacific Time / 3:00 - 4:00 PM Eastern Time)**

**1:00 - 2:00 PM Pacific Time / 4:00 - 5:00 PM Eastern Time**

**Live Q&A** with Peter McGuire, M.D.

To prepare, watch Dr. McGuire's lecture: [How do mitochondria contribute to health and disease?](#)

***15-minute break (2:00 - 2:15 PM Pacific Time / 5:00 - 5:15 PM Eastern Time)***

**2:15 - 3:45 PM Pacific Time / 5:15 - 5:45 PM Eastern**

Office Hours as needed with Belen & Christina

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**Thursday, July 30, 2020**

**9:00 - 9:30 AM Pacific Time / 12:00 - 12:30 PM Eastern Time**

Daily Check-in

***30-minute break (9:30 - 10:00 AM Pacific Time / 12:30 - 1:00 PM Eastern Time)***

**10:00 - 10:50 AM Pacific Time / 1:00 - 1:50 PM Eastern Time**

**LIVE VIRTUAL TOUR:** NIH Intramural Sequencing Center with Jim Thomas, Ph.D. and Alice Young, Ph.D.

***10-minute break (10:50 - 11:00 AM Pacific Time / 1:50 - 2:00 PM Eastern Time)***

**11:00 AM - 12:00 PM Pacific Time / 2:00- 3:00 PM Eastern Time**

**LIVE LECTURE** - Adam Phillippy, Ph.D.: Can nanopore sequencing finally finish the human genome?

***1-hour break (12:00 - 1:00 PM Pacific Time / 3:00 - 4:00 PM Eastern Time)***

**1:00 - 2:00 PM Pacific Time / 4:00 - 5:00 PM Eastern Time**

**Live Q&A** - COVID-19 Lectures with Cheri Lee, Ph.D., National Institute of Allergy and Infectious

To prepare for discussion with Dr. Lee:

1. View all three of these (they are ~5 minutes long each):
  - [What is a coronavirus?](#) | TedEd lesson by Elisabeth Cox
  - [Can Scientists Use RNA to Create a Coronavirus Vaccine?](#) | NOVA | PBS
  - [How do virus tests actually work?](#) | TedEd lesson by Cella Wright
2. View at least one of the following lectures from the NIH COVID-19 Scientific Interest Group lecture series (~1 hour long each):

[The Biomedical Research Response to COVID-19: A View from NIAID](#)

Technical level: Easy

[Rapid COVID-19 Vaccine Development: An Example of the Prototype Pathogen Approach for Pandemic Preparedness](#)

Technical level: Medium-High

[COVID-19 Diagnostics: The Challenge of Rapid, High-Volume Detection of SARS-CoV2](#)

Technical level: Medium-High

***15-minute break (2:00 - 2:15 PM Pacific Time / 5:00 - 5:15 PM Eastern Time)***

**2:15 - 3:45 PM Pacific Time / 5:15 - 5:45 PM Eastern**

Office Hours as needed with Belen & Christina

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**Friday, July 31, 2020**

**9:00 - 9:30 AM Pacific Time / 12:00 - 12:30 PM Eastern Time**

Daily Check-in

**9:30 - 10:00 AM Pacific Time / 12:30 - 1:00 PM Eastern Time**

**LIVE: Going Viral with the Outbreak Exhibit at National Museum of Natural History** with Kerri Dean & Meg Rivers, Exhibit Developer & Project Managers at the Smithsonian's National Museum of Natural History (NMNH). Some of you have been following the NMNH webinar series "Vaccines in the Time of Covid-19." *To prepare for a conversation with Kerry and Meg, take a look at the ["Outbreak: Epidemics in a Connected World"](#) website, including their [virtual exhibit link](#).*

**10:15 - 10:50 AM Pacific Time / 1:15 - 1:50 PM Eastern Time**

**LIVE: National Museum of African American History and Culture (NMAAHC) Learning Labs** with Christopher Williams, Ph.D., National Museum of African American History and Culture  
To prepare, take a look at the: [NMAAHC Learning Lab](#).

***10-minute break (10:50 - 11:00 AM Pacific Time / 1:50 - 2:00 PM Eastern Time)***

**11:00 AM - 12:00 PM Pacific Time / 2:00- 3:00 PM Eastern Time**

**Live Lightning Talks:** Animal Models in Research with Kevin Bishop, M.S. (Zebrafish); Heidi Parker, Ph.D. (Dog); and Stacie Loftus, Ph.D. (Mouse)

***1-hour break (12:00 - 1:00 PM Pacific Time / 3:00 - 4:00 PM Eastern Time)***

**1:00 - 2:00 PM Pacific Time / 4:00 - 5:00 PM Eastern Time**

**Live Q&A - Research at the NIH: Careers in Genomics** with Jasmine Manalel, Ph.D.; Shurjo Sen, Ph.D.; Gustavo Sudre, Ph.D.; and Melissa Harris, Ph.D.

To prepare, please watch the following (*3-5 minutes long each*):

1. [Caregiving Across Contexts: Stress and Mental Health Among Parents-Caregivers](#): Jasmine Manalel, Ph.D.
2. [Genomics of Sudden Coronary Death: What Causes Atherosclerotic Plaques to Rupture](#): Shurjo Sen, Ph.D.
3. [The Connectome in the Human Brain: Defining its Heritability and Association with ADHD](#): Gustavo Sudre, Ph.D.

4. [Identifying Genetic Modifiers of the Age-related Phenotype of Hair-graying](#): Melissa Harris, Ph.D.

**2:15 - 3:45 PM Pacific Time / 5:15 - 5:45 PM Eastern**

Parting Thoughts: Christina Daulton, Belen Hurle, Ph.D. and Carla Easter, Ph.D.