

National Human Genome Research Institute

Short Course
in Genomics

MONDAY, JULY 29, 2019 – GENETICS IN THE CLINIC			
TIME	ROOM	SPEAKER	TOPIC
9:00am – 9:20am	Bldg. 10, FAES Classrooms 3 & 4	Carla Easter, Ph.D.	Welcome & Introductions
9:30am – 10:30am	Bldg. 10, FAES Classrooms 3 & 4	Max Muenke, M.D.	Opening lecture – Introduction to Genetics & Genomics
10:40am – 11:45am	Bldg. 10, FAES Classrooms 3 & 4	Philip Shaw, B.M., B.Ch., Ph.D.	Brain and behavior (Genomics and ADHD)
11:45am – 12:00pm	* Group Picture * Ernesto del Aguila		
12:20pm – 1:20pm	Lunch (brought from home or purchased on your own) Speaker: Sara Hull, Ph.D. – Constructing Identities: the implications of DTC ancestry testing for tribal communities		
1:20pm – 2:00pm	Bldg. 10, FAES Classrooms 3 & 4	Kelly Hudspeth, Ph.D.	Immune Therapy for Cancer
2:10pm – 3:10pm	Bldg. 10, FAES Classrooms 3 & 4	Peter McGuire, M.D.	Inborn errors of metabolism: mitochondrial disease
3:10pm – 3:30pm	Break		
3:30pm – 4:30pm	Bldg. 10, FAES Classrooms 3 & 4	Anastasia Wise, Ph.D.	Newborn Sequencing in Genomic Medicine and Public Health (NSIGHT)

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TUESDAY, JULY 30, 2019 – GENETICS AND TECHNOLOGY			
TIME	ROOM	SPEAKER	TOPIC
9:30am – 11:30am	NIH Sequencing Center, NISC (5625 Fishers Lane, Rockville, MD 20852)	Jim Thomas, Ph.D.	Lecture and NISC tour
11:30am – 12:30pm	* LUNCH BREAK * (brought from home or purchased on your own)		
12:35pm – 1:45pm	NISC	Adam Phillippy, Ph.D.	Can nanopore sequencing finally finish the human genome?
1:55pm – 2:55pm	NISC	Jenifer Smith, Ph.D. & Karen Wiggins, C.P.M., M.A.	DC Department of Forensic Sciences
2:55pm – 3:10pm	Break		
3:10pm – 4:10 pm	NISC	Vence Bonham, J.D.	Health disparities case study-sickle cell disease

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WEDNESDAY, JULY 31, 2019 – FOCUS TOPICS			
TIME	ROOM	SPEAKER	TOPIC
9:00am – 11:00am	NIH Library	Joseph Wilcox Brian Ondov, Ph.D. and Sofia de Pereira Barreira, Ph.D.	An Introduction to Bioinformatics Workshop
11:10am – 11:25am	* BREAK *		
11:25am – 12:25pm	Bldg. 10, FAES Classrooms 1 & 2	Shawn Burgess, Ph.D.	Using CRISPR/Cas9 to knock in or knock out genes
12:50pm – 1:50pm	Bldg. 10, FAES Classrooms 1 & 2 Lunch (purchased on your own)	Guest speaker: Elisa Hidalgo, Wheaton High School and Belen Hurle, Ph.D.	Partnership “Think like a Scientist” Wheaton High School and NIH
2:00pm – 3:00pm	Bldg. 10, FAES Classrooms 1 & 2	Sean Conlan, Ph.D.	The Human Microbiome
3:00pm – 3:30pm	* BREAK *		
3:30pm – 5:30pm	Optional: Guided Tour by Meg Rivers of New <i>Deep Time</i> Exhibit Smithsonian National Museum of Natural History, Washington, DC		

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THURSDAY, AUGUST 1, 2019 – GENOMIC WORKSHOPS

Short Course in Genomics Alumni Developed Lesson Plans

9am – 12pm

Bldg. 10, FAES Classrooms 3 & 4

- **Gene Editing, CRISPR/Cas9**

Orianna Carter, Ph.D. Associate Professor, Biological Sciences at Ohio University Southern

- **Microbiome**

Karla Fuller, Ph.D., Associate Professor of Biology, Stella and Charles Guttman Community College, City University of New York

Andrew Lee, Associate Professor, Department of Biology, Northern Virginia Community College