National Human Genome Research Institute National Institutes of Health August 29 – September 27, 2019

Agenda

	Topic	Speaker
Aug. 29 (Thur)		
8:00 – 8:30 am	Registration	Please bring Passports and visas
8:30 – 8:45 am	SURVEY	and PHOTO
8:45 – 9:00 am	Welcome	Dr. Eric Green
		Director, NHGRI
		Dr. Max Muenke
		Chief, Medical Genetics Branch,
0.00 40.00		NHGRI
9:00– 10:00 am	The Human Genomics Landscape,	Dr. Eric Green
40.00 40.00	Circa 2019	Director, NHGRI
10:00 – 10:30 am		REAK
10:30 – 11:30 pm	Overview: Approach to Clinically- Oriented Genetics and Genomics	Dr. Ben Solomon
11:20 om 12:20 nm	Common Conditions and Disease	Managing Director, GeneDx Dr. Ben Solomon
11:30 am – 12:30 pm	Patterns	Managing Director, GeneDx
12:30 – 1:30 pm	LUNCH	
1:30 – 1:30 pm	Patterns of Inheritance and Key	Dr. Ben Solomon
1.30 – 2.30 pm	Terminology	Managing Director, GeneDx
2:30 – 2:45 pm		REAK
3:00 – 4:50 pm	CLINICAL CENTER TOUR*:	
	Metabolic Unit	Drs. Kong Chen and Stephanie Chung
	Group A: 3:00-3:30	Clinical Investigators, NIDDK and
	Group B: 3:40-4:10	Co-directors, Metabolic Clinical
		Research Unit, NIH Clinic Center
	Pediatric Unit (1NW)	Dr. Cynthia Tifft
	Group B: 3:00-3:30	Deputy Clinical Director, NHGRI
	Group A: 3:40-4:10	
	Clinical Center (4:20-4:50)	Ms. Laura M. Lee, MS, RN
	Official Certici (4.20-4.30)	Director, Office of Patient Safety and
		Clinical Quality
		NIH Clinical Center
4:50 – 5:00 pm	Survey	

^{*}Break into 2 groups

Bldg. 45 (Natcher Conference Center), Room F1/F2

	Topic	Speaker
Aug. 30 (Fri)		
7:45 – 8:00 am		SURVEY
8:00 – 9:00 am	The Role of Race, Ethnicity and Socioeconomic Status in Clinical Genetics Research	Dr. Eliseo Perez-Stable Director, NIMHD
9:00 – 10:00 am	NIH Undiagnosed Disease Program	Dr. William Gahl Director, Undiagnosed Disease Program NHGRI
10:00 – 10:30 am		BREAK
10:30 – 11:30 am	Skeletal Dysplasias	Dr. Julie Hoover-Fong Director, Greenberg Center for Skeletal Dysplasias Associate Professor of Genetic Medicine and Pediatrics, Johns Hopkins University
11:30 – 1:00 pm	LUNCH	
1:00 – 2:00 pm	Gene Therapy for Sickle Cell Anemia	Dr. Matt Hsieh Staff Clinician, Cellular and Molecular Therapeutics Branch, NHLBI
2:00 – 3:00 pm	Auto-Inflammatory Disorders	Dr. Dan Kastner, Scientific Director, NHGRI
3:00 – 3:30 pm	BREAK	
3.30- 4:30 pm	Genetics of Complex Traits	Dr. Lawrence Brody Director, Division of Genomics and Society, NHGRI
4:30 – 5:30 pm	Genetics of Lipid Disorders	Dr. Robert Shamburek Clinician/Scientist, Lipid Section Cardiovascular Branch, NHLBI
5:30- 5.45 pm		SURVEY

	Topic	Speaker
Sept. 3 (Tue)		
7:45 – 8:00 am	SUI	RVEY
8:00 – 9:00 am	A Clinical Approach to a Patient with a	Dr. Adebowale Adeyemo
	Suspected Genetic Disorder	Deputy Director, Center for Research in
		Genomic and Global Health,
		Associate Investigator, National Human
		Genome Research Institute, NHGRI
9:00 – 9:30 am	BR	EAK
9:30 – 11:30 am	Cytogenetics	Dr. Jeanne Meck
		Director, Prenatal Diagnosis &
		Cytogenomics, GeneDx
11:30 - 1.00 pm	LUNCH	
1:00 – 2:00 pm	Clinical Aspects of Cytogenetic Disorders	Dr. Clesson Turner
		Clinical Geneticist, Walter Reed National
		Military Medical Center
2:00 – 3:00 pm	Sickle Cell Disease, The Global Health	Dr. Vence Bonham
	Burden	Senior Advisor to the NHGRI Director on
		Genomics and Health Disparities, NHGRI
3:00 – 3:30 pm	BREAK	
3.30- 4:30 pm	Microbiome	Dr. Hernan Lorenzi
		Assistant Professor
		Infectious Disease Group
		J. Craig Venter Institute
4:30 – 5:30 pm	Neurogenetics	Dr. Sonja Scholz
		Investigator, Neurodegenerative Diseases
		Research Unit, NINDS
5:30- 5.45 pm	SUI	RVEY

Meet at The Gateway Visitor's Center, NIH

	Topic Speaker	
Sept. 4 (Wed)		
8.00 – 8.15 am	Surv	ey on the bus
8:30 am - 5:00 pm	Field Trip- NIH Intramural Sequencing Center (NISC) 8.30-10.30 am 5625 Fishers Lane Rockville, MD 20852 National Center for Advancing Translation Sciences (NCATS) 11.00-12.40 pm 9800 Medical Center Dr., Rockville, MD 20850 GeneDX 1.00- 4.30 pm 207 Perry Pkwy, Gaithersburg, MD 20877	
	Survey on the bus	

Bldg. 45 (Natcher Conference Center), Room F1/F2

	Topic	Speaker
Sept. 5 th (Thur)		
7:45 – 8.00 am		SURVEY
8.00 – 10.00 am	Grant Writing- Part 1: The structure of a grant proposal (General and K43)	Dr. Beth Fischer, Assistant Professor of School of Education, University of Pittsburgh
		Dr. Michael Zigmond, Professor Emeritus, University of Pittsburgh
10;00 – 10:30 am		BREAK
10:30 – 12:30 pm	Grant Writing- Part 1 continued: The process of preparing and submitting a proposal	
12:30 – 1:30 pm	LUNCH (can include group discussions)	
1:30 – 3:00 pm	Group discussion: Candidates present their specific aims to their group and get feedback	
3:00 – 3:30 pm		BREAK
3:30 – 5:30 pm	Grant Writing- Part 2 (focus on specific aims): Insights from group discussions, review of basic principles of a fundable set of specific aims, final Q & A	
5:30 – 5:45 pm	5	SURVEY

Manjit has group list

Bldg. 45 (Natcher Conference Center), Room F1/F2

	Topic	Speaker
Sept. 6 th (Fri)		
7:45 – 8:00 am	SUR	VEY
8:00 – 9:15 am	Overview of Fogarty Extramural Programs	Dr. Laura Povlich
		Fogarty International Center/NIH
	The Emerging Global Leader Award (K43):	Dr. Christine Jessup,
	A Career Development Award for LMIC Investigators	Fogarty International Center/NIH
9:15 – 9:45 am	Research and Development at USAID:	Dr. Megan Miller
	Opportunities for Engagement	Research Program Officer
		Center for Development Research, USAID
9:45 – 10:15 am	An Overview of Clinical Gene Therapy	Dr. Kenneth Cornetta
		Professor of Clinical Medical & Molecular
		Genetics, Indiana University School of
		Medicine
10.15 - 10.45 am	BREAK	
10.45 - 11.45 am	CRISPR/Cas9 Technology	Dr. Shawn Burgess
		Senior Investigator, Translational and
		Functional Genomics Branch, NHGRI
11.45 - 1.00 pm	LUNCH	
1:00 – 2:00 pm	Genetics of Alzheimer's Disease and	Dr. Marilyn Miller
	Related Dementias	Program Director, Genetics of Alzheimer's
		Disease, NIA
2:00 – 3:00 pm	Genetics of Mood and Anxiety Disorders	Dr. Francis McMahon,
		Chief Human Genetics Branch, NIMH
3:00 – 3:30 pm	BREAK	
3:30 – 4:30 pm	Genetic and Environmental Contributions	Dr. Brion Maher
	to Psychiatric and Substance Use	Professor of Mental Health
	Disorders	Johns Hopkins Bloomberg School of
		Public Health
4:30 – 5:30 pm	Epigenetics in Human Health and Disease	Dr. Laura Elnitski
		Senior Investigator, Translational and
		Functional Genomics Branch, NHGRI
5:30 – 5:45 pm	SURVEY	

Bldg. 45 (Natcher Conference Center), Room C1/C2

	Topic	Speaker
Sept. 9th (Mon)		
7:45 – 8:00 am	SUR	VEY
8:00 – 9:00 am	Genetic Counseling	Mr. Don Hadley
		Certified Genetic Counselor
		Deputy Director, Medical Genetics &
		Genomic Medicine Residency, NHGRI
9:00 – 10:00 am	Variant Nomenclature	Dr. Christopher Lau
		Clinical Molecular Geneticist,
		Associate Laboratory Director,
		Clinical Diagnostics, Ambry Genetics
10:00 – 10:30 am	BRE	EAK
10:30 – 11:30 am	Variant Interpretation	Dr. Christopher Lau
		Clinical Molecular Geneticist,
		Associate Laboratory Director,
		Clinical Diagnostics, Ambry Genetics
11:30am-1:00 pm	LUN	
1:00 – 2:00 pm	Traumatic Brain Injury	Dr. Jessica Gill,
		Senior Investigator
		Acting Scientific Director, NINR
2:00 – 3:00 pm	Growing Success Stories of Genomics in	Dr. Charles Rotimi
	African Ancestry Populations: H3 Africa	Director, Center for Research on
	and Beyond	Genomics and Global Health,
		Chief & Senior Investigator, Metabolic,
		Cardiovascular and Inflammatory Disease
		Genomics Branch, NHGRI
3:00 – 3:30 pm	BREAK	
3:30 – 4:15 pm	Genetic Syndromes in Diverse Populations	Dr. Paul Kruszka, MD, MPH
		Associate Research Physician, NHGRI
4:15 – 5:30 pm	Patient Panel	Moderator Mr. Don Hadley
		Certified Genetic Counselor
		Deputy Director, Medical Genetics &
		Genomic Medicine Residency, NHGRI
5:30- 5.45 pm	SUR	VEY

Meet at The Gateway Visitor's Center, NIH

	Topic	Speaker
Sept. 10 th (Tue)		
7:00 – 7:15 am	Survey	on the bus
8:30 – 5:00 pm	Field Trip- Johns Hopkins University 8:30 am-12:00 pm 733 N Broadway, Baltimore, MD 21205 Lunch at JHU 12:00-12:30 pm Kennedy Krieger Institute 12.30 pm- 2.15 pm Maryland Newborn Screening Laboratory 2:30 pm- 4:30 pm Survey on the bus	

Bldg. 45 (Natcher Conference Center), Room A/B And Bldg 31, Room B1E12

	То	pic	Speaker
Sept. 11 th (Wed)			
7:45 – 8:00 am		SI	URVEY
	Group A*	Group B*	
8:00 – 9:30 am	Molecular Genetics (Bldg 45 Room A/B)	Bioinformatics workshop (8 am- 12 pm) – Bldg 31 room B1E12; Dr.	Dr. Suzanne Hart Deputy Director, Medical Genetics & Genomic Medicine Training Program, NHGRI
9:30 – 10:30 am	Genetics of Genitourinary Disorders	Tyra Wolfsberg, Associate Director Bioinformatics and Scientific	Dr. Melissa Merideth Attending Ob/Gyn and Geneticist Director, Medical Biochemical and Clinical Biochemical Training Programs
10:30 – 11:00 am	BREAK	Programming	
11:00 – 12:00 pm	How to Write a Scientific Paper	Core, NHGRI	Dr. Max Muenke Chief, Medical Genetics Branch, NHGRI
12:00 – 1:00 pm		L	UNCH
	Group A*	Group B*	
1:00 – 2:30 pm	Bioinformatics workshop (1-5 pm) - Bldg 31 room B1E12; Dr. Tyra	Molecular Genetics (Bldg 45 Room A/B)	Dr. Suzanne Hart Deputy Director, Medical Genetics & Genomic Medicine Training Program, NHGRI
2:30 – 3:30 pm	Wolfsberg, Associate Director Bioinformatics and Scientific	Genetics of Genitourinary Disorders	Dr. Melissa Merideth Attending Ob/Gyn and Geneticist Director, Medical Biochemical and Clinical Biochemical Training Programs
3.30 – 4:00pm	Programming	BREAK	
4:00 – 5:00 pm	Core, NHGRI	How to Write a Scientific Paper	Dr. Max Muenke Chief, Medical Genetics Branch, NHGRI
5:00 – 5:15 pm	SURVEY		

^{*}Manjit has group list

	Topic	Speaker
Sept. 12 th (Thur)		
7:45 – 8:00 am		SURVEY
8:00 – 9:00 am	Neurocutaneous Syndromes	Dr. Dusica Babovic-Vuksanovic
		Chair, Department of Clinical Genomics,
		Mayo Clinic
9:00 – 10:00 am	Clinical Trials in the Study of Rare	Dr. Cynthia Tifft
40.00 40.00	Diseases	Deputy Clinical Director, NHGRI
10:00 – 10:30 am		BREAK
10:30 – 11:30 am	Inherited Pulmonary Disorders	Dr. Bernadette Gochuico
		Senior Research Physician
		Attending Pulmonologist
		Medical Genetics Branch, NHGRI
11:30 – 12:45pm		LUNCH
1:00 – 2:00 pm	Genetics of Arrhythmia and	Dr. Elizabeth Sherwin
	Cardiomyopathy	Pediatric Electrophysiologist, CNHS
2:00 – 3:00 pm	Genetics of Cardiac Structural Defects	Dr. Laura Olivieri
		Pediatric Cardiologist, CNHS
3:00 – 3:30 pm	BREAK	
3:30 – 4:30 pm	What Makes Research Ethical?	Mr. Ben Berkman
		Faculty, NIH Department of Bioethics
		Deputy Director,
		NHGRI Bioethics Core
4:30 – 5:30 pm	Ethical Issues in Genetic Research	Dr. Sara Hull
	with Stored Samples	Director, Bioethics Core,
		Office of the Clinical Director, NHGRI
5:30 – 5:50 pm	Innovative Strategies for Vision	Dr. Santa Tumminia
	Research to Treat Eye Diseases	Acting Director, NEI
5:50 – 6:00 pm		SURVEY

	Topic	Speaker
Sept. 13 th (Fri)	•	•
7:45 – 8:00 am	SUR	RVEY
8:00 – 9:00 am	Ophthalmic Genetics	Dr. Brian Brooks Clinical Director, Chief, Unit on Pediatric, Developmental & Genetic Ophthalmology, NEI
9:00 – 10:00 am	Genetics of Hearing Loss	Dr. Isabelle Roux Molecular Biology and Genetics Section, Otolaryngology Branch, NIDCD
10.00 - 10.30 am	BR	EAK
10.30 - 11.30 am	Diabetes: Insights from Genomics	Dr. Lori Bonnycastle Staff Scientist, NHGRI
11.30 - 1.00 pm	LUI	NCH
1:00 – 2:00 pm 2:00 – 2:45 pm	Ethical issues arising from the application of genomics to the prevention and treatment of infectious diseases How living and dying with malaria has	Dr. Gail Geller Professor, Berman Institute of Bioethics and Department of Medicine, John Hopkins University Co-Principal Investigator, Johns Hopkins Center for Excellence in ELSI Research (CEER): Bridging Infectious Diseases, Genomics & Society (BRIDGES) Dr. Hans Ackerman
·	shaped the human genome over thousands of years	NIH-Lasker Clinical Research Scholar, Investigator and Head, Physiology Unit Laboratory of Malaria and Vector Research, NIAID
2:45 – 3:30 pm	The Effect of Genetics in Tuberculosis Infection	Dr. Ray Chen Staff Clinician, NIAID
3:30 – 4:00 pm	BREAK	
4:00 – 4:45 pm	Proteomic and Genomic Approaches for Detection of Antimicrobial Resistance in Bacteria	Dr. John Dekker Lasker Clinical Research Scholar Chief, Bacterial Pathogenesis and Antimicrobial Resistance Unit, NIAID Director, Genomics Section, Microbiology Service, Department of Laboratory Medicine, NIH Clinical Center
4:45 – 5:00 pm	SUR	RVEY

Personalized/Tailored Training at ICs

	Topic	Speaker
Sept. 16 th – 20 th (Mon-Fri)		
8:00 am - 5:00 pm	Personalized Training at ICs	

	Topic	Speaker
Sept. 23 (Mon)		
7:45 – 8:00 am	SURVEY	
8:00 – 9:00 am	Using Whole Genome Sequencing and	Dr. Drew Michael
	Genomics to Understand the Clinical	Associate Director, Molecular and
	Impact of Human Sequence Variation	Biochemical Diagnostics Laboratory,
		Children's National Health System
		Assistant Professor, Department of
		Genomics and Precision Medicine, George
		Washington University
9:00 – 10:00 am	Genetics of Craniofacial and Dental	Dr. Janice Lee
	Anomalies	Clinical Director, NIDCR
10:00 – 10:30 am		BREAK
10:30 – 11:30 am	Mosaicism	Dr. Les Biesecker
		Chief & Senior Investigator,
		Medical Genomics & Metabolic Genetics
		Branch,
		Head, Clinical Genomics Section, NHGRI
11:30 am-1.00 pm	I	LUNCH
1:00 – 2:00 pm	Selected Current Molecular Treatment	Dr. Payam Mohassel
	Approaches to Pediatric	Senior Investigator,
	Neuromuscular Disorders	Neuromuscular & Neurogenetic Disorders of
		Childhood Section, NINDS
2:00 – 3:00 pm	Mitochondrial Genetics	Ms. Ellen Macnamara
		Certified Genetics Counselor, NHGRI
3:00 – 3:15 pm		BREAK
3:15 – 4:45 pm	Biochemical Genetics	Dr. Nick Ah Mew
		Clinical Biochemical Geneticist
		Director, Inherited Metabolic Disorders
		Children's National Rare Disease Institute
		Associate Professor of Pediatrics
		The George Washington University
4:45 – 5:45 pm	Noninvasive Prenatal Genomics: The	Dr. Diana W. Bianchi
	Vanguard of Genomic Medicine	Director, Eunice Kennedy Shriver National
		Institute of Child Health and Human
		Development
5:45- 5:55 pm	S	SURVEY

Meet at The Gateway Visitor's Center, NIH

	Topic	Speaker
Sept. 24th (Tue)		
7:45 – 8:00 am	Survey on the bus	
8:00 am - 5.00 pm	Field Trip-	
	Children's National Health	
	System	
	9 am- 12 pm	
	111 Michigan Ave NW,	
	Washington, DC 20010	
	MedStar Washington Hospital Center 12.30 pm- 4 pm 110 Irving St NW, Washington, DC 20010	
	Survey on the bus	

	Topic	Speaker
Sept. 25 th (Wed)	·	•
7:45 – 8:00 am	SURVEY	
8:00 – 9:00 am	NCATS Program: Genetic and Rare Diseases Information Center (GARD)	Ms. Michelle Snyder Certified Genetic Counselor, Operations Manager Genetic and Rare Disease Information Center, NCATS Dr. Anne Pariser
		Director, Office of Rare Diseases Research NCATS
9:00 – 10:30 am	An Update Regarding Genetic Counseling and Testing for More Common Inherited Cancers	Ms.Tiffani A. DeMarco, MS, LCGC Licensed and Certified Genetic Counselor Director, Cancer Genetics Program Inova Schar Cancer Institute – Inova Fairfax Hospital
10:30 – 11:00 am		BREAK
11:00 – 12:00 pm	Cancer Genomics	Dr. Kathy Calzone, PhD, RN, AGN-BC, FAAN Research Geneticist Center for Cancer Research, Genetics Branch NCI
12:00 – 1:30 pm		LUNCH
1:30 – 3:00 pm	Genetics of Skin Disorders	Dr. Gabriele Richard Chief Medical Officer, GeneDx
3:00 – 3:30 pm		BREAK
3:30 – 4:30 pm	Genetics of Kidney Disorders	Dr. Asha Moudgil, FASN, FAST Associate Chief Professor of Pediatrics, GWU School of Medicine Medical Director, Kidney Transplant Children's National Health System
4:30 – 5:30 pm	NCBI Genetic Databases (ClinVar, dbGAP, GTR)	Ms. Adriana Malheiro Genetic Counselor, Director, NIH Genetic Testing Registry, NCBI/NLM
5:30 – 5:45 pm		SURVEY

	Topic	Speaker
Sept. 26th (Thur)		
7:45 – 8:00 am	SURVEY	
8:00 – 9:00 am	Harnessing the Power of "Big Data" to Improve Health and Healthcare	Dr. Nilay D. Shah Chair, Division of Health Care Policy & Research, Department of Health Sciences Research; Associate Professor of Health Services Research, Mayo Clinic, Rochester, MN
9:00 – 9:30 am	The Sustainable Development Goals, Global Health Strategies, and Newborn Screening	Mr. Mark Engman Senior Director, Public Policy and Advocacy, UNICEF-USA
9:30 – 10:15 am	Introducing and Sustaining Newborn Screening in a Developing Nation	Dr. Bradford L. Therrell Director, National Newborn Screening and Genetics Resource Center; International Newborn Screening Consultant
10:15 – 10:30 am	BREAK	
10:30 – 11:30 am	Challenges in setting up genetic services in low-resource settings	Dr. Carmencita D. Padilla Professor and Chancellor University of the Philippines Manila
11:30 am – 12:30 pm	Potential of Telemedicine in meeting health related SDG	Dr. Saroj K. Mishra Prof. & Head, Dept. of Endocrine Surgery; Nodal Officer SGPGI Telemedicine Program Sanjay Gandhi PG Inst. of Medical Sciences, Lucknow, India
12:30 – 12:45 pm	SURVEY	
12:45 – 1:45 pm		LUNCH
1:45 – 2:30 pm	Medical Genetics Training Programs	Dr. Max Muenke Chief, Medical Genetics Branch, Director, Medical Genetics & Genomic Medicine Training Programs, NHGRI
2:30 – 3:30 pm	Presentation by Candidates (4)	
3:30 – 3:45 pm	BREAK	
3:45 – 5:45 pm	Presentation by Candidates (8)	

	Topic	Speaker
Sept. 27th (Fri)		
8.00 – 9:00 am	Presentation by Candidates (4)	
9:00 – 10:00 am	Presentation by Candidates (4)	
10:00 – 10:30 am		BREAK
10:30 – 11:30 am	Presentation by Candidates (4)	
11:30 – 12:30 pm	Presentation by Candidates (4)	
12:30 – 1:30 pm		LUNCH
1:30 – 2:30 pm	Presentation by Candidates (4)	
2:30 – 3:30 pm	Presentation by Candidates (4)	
3:30 – 4:00 pm		BREAK
4:00 – 5:30 pm	Graduation and Closing Remarks	Program Coordinators- Ms. Manjit Kaur Program Administrator, NHGRI
		Dr. Max Muenke Director, Medical Genetics & Genomic Medicine Training Program; Senior Investigator and Chief, Medical Genetics Branch, NHGRI

Sept. 28th All candidates must depart