

## Learner Notification

American Society of Human Genetics  
2023 Annual Meeting  
November 1 – November 5, 2023  
Washington, DC

### Acknowledgement of Financial Commercial Support

No financial commercial support was received for this educational activity.

### Acknowledgement of In-Kind Commercial Support

No in-kind commercial support was received for this educational activity.

### Satisfactory Completion

Learners must complete an evaluation form to receive a certificate of completion. Your chosen sessions must be attended in their entirety. Partial credit of individual sessions is not available. If you are seeking continuing education credit for a specialty not listed below, it is your responsibility to contact your licensing/certification board to determine course eligibility for your licensing/certification requirement.

### Accreditation Statement



JOINTLY ACCREDITED PROVIDER™  
INTERPROFESSIONAL CONTINUING EDUCATION

In support of improving patient care, this activity has been planned and implemented by Amedco LLC and American Society of Human Genetics. Amedco LLC is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

### Physicians (ACCME) Credit Designation

Amedco LLC designates this live activity for a maximum of 25.25 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### Objectives - After Attending This Program You Should Be Able To

1. Describe the latest advances in the field of human genetics and genomics research.
2. Describe current and emerging technologies for studying genetic and genomic variation.
3. Discuss the ways in which the field of human genetics acts as a gatekeeper to diversity, equity, and inclusion.

### Disclosure of Conflict of Interest

The following table of disclosure information is provided to learners and contains the relevant financial relationships that each individual in a position to control the content disclosed to Amedco. All of these relationships were treated as a conflict of interest, and have been resolved. (C7 SCS 6.1---6.2, 6.5)

All individuals in a position to control the content of CE are listed in the agenda or below. If their name is not listed below, they disclosed that they had no financial relationships with a commercial interest.

First Name	Last Name	Commercial Interest - Relationship
Noura	Abul-Husn	23andMe:Employee,Allelica:Scientific/Medical Advisory Board Member - NO CE
François	Aguet	Illumina, Inc.:Employee
Melinda	Aldrich	Guardant Health:Scientific/Medical Advisory Board Member
Aishwarya	Arjunan	GRAIL/Illumina:Employee,Myriad:Public Stock Shareholder,Invitae:Public Stock Shareholder, GeneDx:Public Stock Shareholder
Tomonari	Awaya	Sumitomo Pharma Co. Ltd.:Other
Michael	Bamshad	GeneDx:Scientific/Medical Advisory Board Member, GeneDx:Research Grant Overall Principal Investigator, Illumina:Research Grant Overall Principal Investigator, PacBio:Research Grant Overall Principal Investigator

Jeffrey	Barrett	Nightingale Health:Employee,Nightingale Health :Public Stock Shareholder
Michael	Bauer	University of Arkansas for Medical Sciences:
Hans	Bjornsson	Mahzi therapeutics:Consultant
Philip	Boone	Vertex Pharmaceuticals, Inc.:Other
Farren	Briggs	Sanofi:Other
Alex	Brown	Illumina:Speakers Bureau,GSK:Other,ONT:Speakers Bureau,AMGEN:Speakers Bureau
Kathryn	Burch	Regeneron:Employee
Anne-ruxandra	Carvunis	Profound Therapeutics:Scientific/Medical Advisory Board Member
Daniel	Chasman	Quest:Patent Holder
Wendy	Chung	Boston Children's Hospital:Employee,NIH:Research Grant Overall Principal Investigator,Regeneron Genetic Center:Consultant,Prime Medicine:Corporate Board Member,RallyBio:Corporate Board Member
Donald	Conrad	Paterna Biosciences:Scientific/Medical Advisory Board Member
Jonathan	Davitte	GSK:Employee,GSK:Public Stock Shareholder
Ryan	Dhindsa	AstraZeneca:Consultant
Lauren	Donoghue	Genentech Inc:Employee
Marie-Pierre	Dubé	Dalcor Pharmaceuticals:Private Stock Shareholder
Ed	Esplin	Invitae:Employee,Invitae:Public Stock Shareholder,Taproot Health:Scientific/Medical Advisory Board Member,Taproot Health:Private Stock Shareholder,Exir Bio:Scientific/Medical Advisory Board Member,Exir Bio:Private Stock Shareholder
Joao	Fadista	Novo Nordisk:Employee
Emily	Farrow	Kyowa Kirin:Speakers Bureau
Page	Goddard	BioMarin:Employee
Alexei	Goraltchouk	Remedium Bio, Inc:Employee
Arni Freyr	Gunnarsson	deCODE genetics:Employee
Melissa	Gymrek	Roche:Consultant
Ingo	Helbig	Encoded Therapeutics:Consultant,Capsida Biotherapeutics:Consultant
Albert	Henry	Pfizer Plc:Other
Ryan	Hernandez	Invitae:Consultant,Variant Bio:Scientific/Medical Advisory Board Member
Hailiang	Huang	Ono Pharma:Consultant,Biogen:Other,Xian Janssen Pharmaceutical Ltd.:Speakers Bureau
Abhay	Hukku	Bristol Myers Squibb:Employee
Xiao	Jiang	AstraZeneca:Employee
Jill	Johnsen	Octapharma :Research Grant Overall Principal Investigator,Octapharma :Consultant,Biomarin:Consultant
Rachid	Karam	Ambry Genetics:Employee - NO CE
Alexander	Katz	Horizon Therapeutics:Employee
Sattar	Khoshkhoo	Insitro:Consultant
Jacob	Kitzman	MyOme:Scientific/Medical Advisory Board Member
Daniel	Koboldt	Abbvie:Other,Human Longevity, LLC:Other,Pierian Dx:Other,Regeneron:Other,Stanford Health Care:Other,Celgene:Other,Indivumed:Other
Donald	Kohn	Allogene Therapeutics:Scientific/Medical Advisory Board Member
Jack	Kosmicki	Regeneron:Employee
Brendan	Lee	Biomarin:Consultant,Pacira:Patent Holder,Acer:Patent Holder,GQ:Patent Holder,Kirin:Research Grant Overall Principal Investigator,Sanofi:Patent Holder
Ephrat	Levy-Lahad	Astra Zeneca:Other
Wenbo	Li	Hub Biosciences:Private Stock Shareholder
Chenyang	Li	Janssen Research & Development, LLC :Employee

Dongjing	Liu	GSK:Employee
Yancy	Lo	GSK:Employee
Dennis	Lo	Illumina:Patent Holder,LabCorp:Patent Holder,Xcelom:Patent Holder,DRA Limited:Private Stock Shareholder,Take2:Private Stock Shareholder,Grail:Patent Holder,Insighta:Private Stock Shareholder - NO CE
Douglas	Loesch	AstraZeneca:Employee
Vinidhra	Mani	ProFound Therapeutics:Private Stock Shareholder,Flagship Pioneering:Employee
Christian	Marshall	Illumina Inc:Other
Angela	Martin Rios	sanofi:
Maria	Martinez-Fresno	illumina:Employee - NO CE
Karen	Miga	Centuara, Inc:Scientific/Medical Advisory Board Member
Danny	Miller	Oxford Nanopore Technologies:Scientific/Medical Advisory Board Member,MyOme:Private Stock Shareholder
Hila	Milo Rasouly	Natera:Research Grant Site Principal Investigator
May	Montasser	Regeneron Pharmaceutical Inc.:Research Grant Site Principal Investigator
Stephen	Montgomery	BioMarin:Consultant,MyOme:Consultant,Tenaya Therapeutics:Consultant
Elisabetta	Morini	PTC Therapeutics:Other
Cynthia	Morton	Luna Genetics, Inc.:Scientific/Medical Advisory Board Member
Sandesh	Nagamani	Acer Therapeutics:Patent Holder,Sanofi:Research Grant Site Principal Investigator,Sanofi:Research Grant Overall Principal Investigator,Sanofi:Scientific/Medical Advisory Board Member
Anne	O'Donnell-Luria	Tome Biosciences:Scientific/Medical Advisory Board Member,Congenica Inc:Scientific/Medical Advisory Board Member,Simons Foundation SPARK for Autism:Scientific/Medical Advisory Board Member
Olufunmilayo (Funmi)	Olopade	Tempus:Scientific/Medical Advisory Board Member
Slavé	Petrovski	AstraZeneca:Employee
Laura	Pisani	RegenXBio:Employee,Ultragenyx:Public Stock Shareholder - NO CE
Vincent	Plagnol	Genomics plc:Employee
Renato	Polimanti	Alkermes:Research Grant Overall Principal Investigator,Karger Publishers:Other
Fedik	Rahimov	AbbVie:Employee
Veera	Rajagopal	Regeneron Pharmaceuticals, Inc. :Employee
Jason	Reuter	Invitae Corporation:Employee
Erin	Riggs	Illumina, Inc.:Consultant
Frederick	Roth	Biogen, Inc.:Research Grant Overall Principal Investigator,Beam Therapeutics, Inc.:Research Grant Overall Principal Investigator
Kaitlin	Samocha	Microsoft Research:Other
Stuart	Scott	Sema4/GeneDx:Consultant
Fritz	Sedlazeck	Genentech:Research Grant Site Principal Investigator
Sandra	Smieszek	Vanda Pharmaceuticals Inc.:Employee
Paul	Spellman	Convergent Genomics:Private Stock Shareholder,10X Genomics:Consultant,Foresight Dx:Consultant,Twinstrand Biosciences:Consultant,Natera:Consultant,LabCorp:Consultant
Jacqueline	Starrett	Tyra Biosciences:Employee - NO CE
Amy	Strum	23andMe:Employee - NO CE
Sabrina	Suckiel	Allelica:Other
V. Reid	Sutton	BioMarin:Speakers Bureau,Ultragenyx:Research Grant Site Principal Investigator,Arcturus Therapeutics:Research Grant Site Principal Investigator,ElevateBio:Consultant,Aceragen:Stock Shareholder
Vivek	Swarup	Biogen:Consultant

Toshiki	Takenouchi	Alexion Pharma:Scientific/Medical Advisory Board Member
Wen-Hann	Tan	Ultragenyx:Research Grant Site Principal Investigator,Ionis Pharmaceuticals:Research Grant Site Principal Investigator,F. Hoffmann-La Roche:Research Grant Site Principal Investigator,The Emmes Company:Consultant,ExpertConnect:Consultant,BioMedical Insights:Consultant,Guidepoint:Consultant,Denali Therapeutics:Consultant
Marwan	Tayeh	MindX Inc.:Consultant
Paul	Thompson	Biogen, Inc.:Research Grant Site Principal Investigator
Neeta	Vora	Illumina:Other
Robbee	Wedow	AnalytiXIN:Research Grant Site Principal Investigator
Monica	Wojcik	Illumina:Consultant,Sanofi:Consultant
Kuan-Han	Wu	Regeneron Pharmaceuticals:Employee
Peng	Yang	Takeda Pharmaceutical Company:Employee
Chengran	Yang	Biogen:Employee
Alicia	Zhou	Color Health:Employee
Heather	Zierhut	GeneMatters:Stock Shareholder
Zoe	Zou	AstraZeneca :Employee