





Conference Program Book Sponsored by: *Booth #232*



38th Annual Conference

November 5-8, 2019

Salt Lake City, Utah Salt Palace Convention Center

REGENXBIO is a leading clinical-stage biotechnology company seeking to improve lives through the curative potential of gene therapy.



- Committed to Patients
- > Powered by Science
- > Driven by Experience





Jason, MPS II



Charlie, HoFH



Christopher, MPS I



Geri, Wet AMD

Our investigational gene therapy product candidates are designed to deliver genes to cells to address the genetic defects or to enable cells in the body to produce therapeutic proteins that are intended to impact disease.

- 4 clinical stage programs in retinal, metabolic, and neurodegenerative diseases
- Proprietary NAV® Technology Platform includes exclusive worldwide rights to over 100 AAV vectors, including AAV7, AAV8, AAV9 and AAVrh10

REGENXBIO.com

Welcome to Salt Lake City!

n behalf of the National Society of Genetic Counselors (NSGC), the Annual Conference Program Committee and the NSGC Board of Directors, thank you for joining us!

NSGC is excited to bring you education and networking opportunities designed to help you elevate the field of genetic counseling. Educational sessions will cover a variety of topics at the forefront of genomics, such as gene editing, polygenic risk scores and artificial intelligence.

Educational highlights you do not want to miss include: 40 years of the Genetic Counseling Profession: A Foundation for the Future, The NSGC and ASHG Joint Session: Genetic Counselors in Research: From Dabbling in Clinic to an NIH Grant and the Professional Issues Panel. You can make the most of your Annual Conference experience by building your schedule around education sessions specific to your professional interests.

The NSGC Annual Conference is about more than just education! We encourage you to take advantage of the Welcome Reception, SIG meetings, program reunions and NSGC Central to network with more than 2,300 of your peers. Discover the latest products and services for our profession in the Exhibitor Suite. Catch up with old friends and make new, lasting connections during this year's conference.

This year, we will be celebrating NSGC's 40th anniversary throughout the conference! Learn more about our professional organization during the conference by exploring the timeline wall of major NSGC milestones, testing your knowledge of NSGC through daily quizzes and looking for fun facts woven into conference material.

We hope you enjoy your time in Salt Lake City, learning about the latest innovations and developments in the profession of genetic counseling and exploring this energetic city!





Katherine Lafferty, MS, CGC 2019 Program Committee Chair



Rachel Mills, MS, CGC 2019 Program Committee Vice-Chair

Download the Official Annual Conference Mobile App

NSGC delivers everything Annual Conference directly to your fingertips via the 2019 NSGC Annual Conference mobile app. View conference session descriptions, speakers and schedule information. Use the interactive maps to navigate the Exhibitor Suite with ease, search the exhibitor directory and stay in-the-know with conference alerts. On your smartphone or tablet, search for "NSGC" in your app store or direct your mobile browser to www.nsgc.org/mobileapp. Follow what others are saying or post your own insights on Twitter during the Annual Conference using #NSGC19.



The one-time-only dose to stop SMA progression

ZOLGENSMA is a gene therapy for pediatric patients less than 2 years of age with spinal muscular atrophy (SMA), that is delivered as a single-dose, 1-hour intravenous infusion¹



Significant survival

91% (20/22) of patients in the STR1VE trial were alive, free of permanent ventilation, and continuing in the study as of the March 2019 data cut (at a mean age of 13.8 months)^{2,a-c}



Rapid onset

As early as 1 month post infusion, CHOP INTEND scores increased from baseline by a mean of 6.9 points (N=22)^{2,a}



Sustained effect

In the ongoing study, patients continue to attain new milestones and have maintained existing milestones at successive data cuts. 50% (11/22) of patients achieved the ability to sit without support for ≥30 seconds at a mean of 8.2 months post treatment as of the March 2019 data cut^{2.8}

The efficacy of ZOLGENSMA was studied in STR1VE, an ongoing, open-label, single-arm, multicenter, Phase 3 clinical trial of patients with SMA Type 1 (genetically confirmed bi-allelic *SMN1* deletion, 2 copies *SMN2*, and symptom onset <6 months of age; N=22). **Lab STR1VE has completed enrollment and the data above represent a data cut from March 2019.**



Consider ZOLGENSMA today: Call 1-855-441-GENE (4363) or learn more at ZOLGENSMA-hcp.com

^aOne patient was initially classified as presymptomatic and removed from the intent-to-treat (ITT) data set included in the Prescribing Information. The patient was later confirmed to be symptomatic at baseline and will be included in the final ITT analysis.

bOne patient died at 7.8 months due to causes unrelated to treatment. One patient withdrew consent at 11.9 months of age.

Event is defined as death or the need for permanent ventilatory support consisting of ≥16 hours of respiratory assistance per day continuously for ≥14 days.

Indication and Important Safety Information Indication

ZOLGENSMA is an adeno-associated virus vector-based gene therapy indicated for the treatment of pediatric patients less than 2 years of age with spinal muscular atrophy (SMA) with bi-allelic mutations in the *survival motor neuron 1* (*SMN1*) gene.

Limitations of Use

The safety and effectiveness of repeat administration or the use in patients with advanced SMA (e.g., complete paralysis of limbs, permanent ventilator dependence) has not been evaluated with ZOLGENSMA.

Important Safety Information

BOXED WARNING: Acute Serious Liver Injury

Acute serious liver injury and elevated aminotransferases can occur with ZOLGENSMA. Patients with pre-existing liver impairment may be at higher risk. Prior to infusion, assess liver function of all patients by clinical examination and laboratory testing (e.g., hepatic aminotransferases [aspartate aminotransferase (AST) and alanine aminotransferase (ALT)], total bilirubin, and prothrombin time). Administer a systemic corticosteroid to all patients before and after ZOLGENSMA infusion. Continue to monitor liver function for at least 3 months after infusion.

WARNINGS AND PRECAUTIONS

Thrombocytopenia

NOW APPROVED

Transient decreases in platelet counts, some of which met the criteria for thrombocytopenia, were observed at different time points after ZOLGENSMA infusion. Monitor platelet counts before ZOLGENSMA infusion and on a regular basis for at least 3 months afterwards.

Elevated Troponin-I

Transient increases in cardiac troponin-I levels were observed following ZOLGENSMA infusion. Monitor troponin-I before ZOLGENSMA infusion and on a regular basis for at least 3 months afterwards.

ADVERSE REACTIONS

The most commonly observed adverse reactions (incidence ≥5%) in clinical studies were elevated aminotransferases and vomiting.

Please see Brief Summary of Prescribing Information on the adjacent page.

References: 1. ZOLGENSMA [prescribing information]. Bannockburn, IL: AveXis, Inc; 2019. 2. Data on file. AveXis, Inc. Bannockburn, IL.

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zolgensma®

(onasemnogene abeparvovec-xioi)

suspension for intravenous infusion

Conference Information

Statement of Purpose

The NSGC Annual Conference showcases advancements across the breadth of the genetic counseling profession to provide education and build community. Attendees will gain knowledge of clinical and scientific best practices and insights into emerging research. The conference provides a unique opportunity to engage and network with colleagues and pursue professional development.



Session Evaluation Claiming/ Process CEUs

Individuals claiming CEUs must complete session evaluations, however NSGC greatly appreciates feedback from all attendees. An attendance verification code will be provided in each session. Each session listing (beginning on page 15) has a blank space to assist you in tracking verification codes for the sessions that you have attended. Signs with session codes are posted inside of each session room. Some attendees also find it helpful to take photos of the signs as a reminder of sessions attended and codes. To complete your session evaluations, follow these steps:

- Log in to the NSGC website, and go to www.nsgc.org/conferenceevaluations.
- Click on the "Session Evaluation" link to be directed to the evaluation website.
- For each session, add the attendance verification code that you received in the session room, and then evaluate the session.
- 4. Save each session as you go. The website will log you out after 10 minutes of inactivity. (If this happens, you must go back to the NSGC website and repeat steps 1 and 2 to log in again.)
 PLEASE NOTE: Although your responses to the individual session evaluation questions will save each time you click "Save and Continue," the attendance verification code will need to be reentered if you re-enter that session to edit your responses.
- Review your evaluation to make sure you claimed credit for each session you attended. Then print your final certificate of credits earned for your records. Attendees are responsible for maintaining their own record of credits earned.

Note: Once you have printed your certificate, you are not able to go back and edit any additional sessions. This certificate is your final CEU certificate for the conference.

The deadline to complete session evaluations is **December 19, 2019**. Please contact the NSGC Executive Office at **nsgc@nsgc.org** if you need assistance. NSGC will not issue CEU certificates if session evaluations are not completed by **December 19, 2019**. No exceptions will be made.

Overall Conference Evaluation

NSGC has commissioned Freeman Research and Measurement to conduct our 2019 overall conference evaluation. You will receive a link to the overall conference evaluation via email within one week following the conference. Please be assured that your answers will be used in summary form only, and your personal information will be held in strict confidence.

NSGC is continually looking to improve your conference experience and would greatly appreciate your feedback. Thank you in advance for completing the evaulation.



2019 Annual Conference Session Recordings

View sessions you miss in Salt Lake City, earn additional CEUs and review the valuable information you gathered during the conference by pre-purchasing the 2019 Annual Conference recordings. The conference recordings package includes synced audio and PowerPoint Presentations for pre- and post-conference symposia, plenary and educational breakout sessions.*

The session recordings package is available at a reduced price of \$149 for all conference attendees.** Registered attendees will be able to order the Annual Conference session recordings through November 8, 2019, at the discounted rate, or following the conference at full price. The Annual Conference recordings package will be made available to purchasers in January 2020.

To earn Category 1 CEUs for recordings, it is required that you complete and pass a quiz included at the conclusion of each session.

Visit **www.nsgc.org/conference** or stop by the registration desk to add session recordings to your registration.

- *With speaker approval.
- **Discounted package rates only available when purchased with conference registration.

Attendee List Information

Attendee lists are posted on the NSGC website. An updated list will be posted following the conference along with session handouts. Attendee lists are provided solely for networking and may not be used for solicitation purposes. NSGC is not responsible for errors or omissions.

Handouts and Presentations

NSGC offers electronic versions of session handouts, when submitted in advance by speakers. All session handouts (provided by speakers) are posted on the NSGC website and in the NSGC Annual Conference mobile app, and will be available until March 1, 2020.

To download session handouts go to:

www.nsgc.org/conferencehandouts

To download pre- and post-conference symposia handouts go to: www.nsgc.org/PCShandouts

Conference Information continued



Registration Hours

East Registration

MONDAY, NOVEMBER 4

5:00 pm - 7:00 pm

TUESDAY, NOVEMBER 5

7:00 am - 7:00 pm

WEDNESDAY, NOVEMBER 6

6:30 am - 7:00 pm

THURSDAY, NOVEMBER 7

7:00 am - 6:30 pm

FRIDAY, NOVEMBER 8

7:30 am - 2:30 pm



Exhibitor Suite Hours

Exhibit Halls A-B, Level 1

TUESDAY, NOVEMBER 5

5:00 pm - 8:00 pm

WEDNESDAY, NOVEMBER 6

9:30 am - 10:15 am

11:45 am - 1:30 pm

3:45 pm - 4:15 pm

5:30 pm - 7:30 pm

THURSDAY, NOVEMBER 7

9:45 am - 10:20 am

11:35 am - 3:00 pm



Job Boards

Bulletin boards for attendees to post job opportunities are available in the booth across from NSGC Central in the Exhibitor Suite. Other forms of advertising are not permitted. Posted material will be monitored and inappropriate information is subject to removal at NSGC's discretion.



Business Center Hours

The Business Center is located on the second floor of the Salt Palace Convention Center near conference room 252.

Monday - Friday

9:00 am - 5:00 pm



Internet Access

Wireless Internet is available in all meeting spaces and common areas at the Salt Palace Convention Center.

To get onto the WiFi:

- Connect to NSGC2019
- 2. Enter password 40years!
- 3. Launch a web browser and click on the connect button on the splash page



Conflict of Interest Disclosures

All presenters are required to disclose any conflicts of interest (COI) related to their presentation.

To view COI disclosures, visit www.nsgc.org/conferencedisclosures.

Sponsored Meal Sessions

Sponsored meal sessions require pre-registration. If you pre-registered to attend a session, a ticket was printed with your badge. To be admitted to each session, please bring your conference badge and the ticket that pertains to that session. We encourage you to arrive early for each session to allow all attendees time to be seated. If you did not pre-register for a session but are still interested in attending, please visit the registration desk to check availability for each session.

Please note that because quantities are limited, not all attendees will receive food and beverage with their admittance. Please check your ticket to see whether the sponsor will provide food, or if you are encouraged to bring your own.



Executive Office Information

NSGC Executive Office

Chicago, IL 60611 USA

330 N. Wabash Avenue, Suite 2000

Phone: 312.321.6834 Email: nsgc@nsgc.org Website: www.nsgc.org

EXECUTIVE DIRECTOR

Meghan Carey mcarey@nsgc.org Peanut butter & jelly.
Donuts & coffee.
Cookies & milk.

Some combinations are meant to be.

At Invitae, we are proud to work alongside genetic counselors, providing patients with the best possible care. By making genetic information more affordable and accessible, we are transforming healthcare. Together, we help patients make better decisions about:

- hereditary cancer
- reproductive health
- cardiology
- neurology

- pediatrics
- metabolic disorders
- and more

Invitae and genetic counselors—making healthcare better, together.







Schedule-at-a-Glance

MONDAY, NO	VEMBER 4					
12:00 pm – 6:00 pm		lopment Program Rook	m 258			
5:00 pm – 7:00 pm	Registration Open Ea	ast Registration				
7:00 pm — 10:00 pm	Association of Genetic (Counseling Program Dire	ectors (AGCPD) Annual M	eeting Room 155D		
TUESDAY, NO	VEMBER 5					
7:00 am - 7:00 pm	Registration Open Ea	st Registration				
7:30 am - 9:30 am	Accreditation Council fo	or Genetic Counseling (A	.CGC) Office Hours Roo.	m 258		
8:00 am – 2:00 pm	CEU Pre-Conference Sy	ymposia Pre-registratio	on required			
	A01: A Heart to Heart Training: Advanced Topics in Traumatic Events Using Cardiogenetics as an Illustration Room 155BC	A02: Building Skill for Cultural Conversations in Genetic Counseling <i>Room 155EF</i>	A03: Practical Tips for the Practicing Genetic Counselor: Somatic Testing and Hematologic Cancers Room 255EF	A04: Measuring Up: Incorporating Patient Reported Outcomes in Clinic and Research Room 255BC	A05: Perinatal Palliative Care and the Genetic Counselor: Optimizing Multi-Disciplinary Collaboration for Holistic Care of Critically III Infants and Their Families Room 355BC	A06: Redesigning the Way We Work to Improve Efficiency <i>Room 355EF</i>
1:30 pm – 2:30 pm	Welcome to the Annual	Conference: First-Time	Attendees Room 251			
3:00 pm - 3:15 pm	Opening Remarks Gra	and Ballroom				
3:15 pm — 3:45 pm	CEU A07: 40 Years of the	e Genetic Counseling Profe	ession: A Foundation for the	e Future Grand Ballroom	1	
3:45 pm – 4:15 pm	Natalie Weissberger Pa	ul National Achievement	t Award Grand Ballroom			
4:15 pm – 4:45 pm	CEU A08: Enabling the B	eautiful Uncertainty of Life	e: My Journey With PGT-M	I Grand Ballroom		
5:00 pm — 8:00 pm	Welcome Reception in E Sponsored by: AveXis	Exhibitor Suite Exhibit	Halls A-B, Level 1			
5:45 pm – 7:00 pm	CEU A09: Posters With A	authors, Group A Posters I	Exhibit Halls A-B, Level 1			
7:00 pm – 8:15 pm	Sanofi Genzyme Meetin Room 255D	ig	Rhythm Gold Academy Room 355D	Program	Late Career SIG Room 258	
7:00 pm — 10:00 pm	Various Program Reunio	ons See page 14 for m	nore information			
7:15 pm — 8:00 pm	Public Health SIG Roo	om 260A				
7:30 pm — 9:30 pm	Journal of Genetic Cour	nseling Editorial Board N	Meeting Room 257A			
WEDNESDAY	, NOVEMBER 6	5				
6:30 am - 7:00 pm	Registration Open Ea	st Registration				
7:00 am - 7:45 am	Sponsored Breakfast Se	essions				
	CEU B01: Look Before Yo Room 250 Sponsored by: Roche I	ou Leap: The Clinical Value Diagnostics	e of Genome-Wide NIPT		gnancy for Indications of Ge ed Gestations at Boulder At er Abortion Clinic	
7:00 am – 7:45 am	Student / New Member	SIG Meeting Room 25	58			
7:00 am – 8:30 am	Accreditation Council fo	or Genetic Counseling (A	CGC) Office Hours Room	m 257A		
8:00 am – 8:35 am	CEU B03: Janus Lecture: Grand Ballroom	Enzyme Replacement The	rapy for Mucopolysaccharid	osis: How Ongoing Researc	h Can Change the Understa	nding of Rare Diseases
8:35 am – 9:35 am	CEU B04: Professional Is	ssues Panel <i>Grand Ballr</i>	room			
2.00 4.11						

REGISTRATION AND BREAKS (PINK)

PRE-CONFERENCE SYMPOSIA (ORANGE)

POST-CONFERENCE SYMPOSIA (TEAL)

PLENARY SESSIONS (LIME)

NSGC COMMITTEE, SIG AND LEADERSHIP ACTIVITIES (YELLOW)

EXHIBITOR SUITE (BLUE)

CONCURRENT PAPERS/POSTER PRESENTATION (GREEN)

EDUCATIONAL BREAKOUT SESSIONS & WORKSHOPS (FUCHSIA)

SPONSORED SESSIONS (SALMON)

PROGRAM REUNIONS (LILAC)

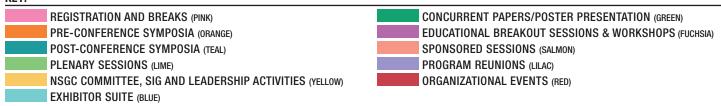
ORGANIZATIONAL EVENTS (RED)

10:15 am - 12:15 pm	CEU Workshops and Led	ctures *Pre-registratio	n required					
	B05: Should All Women With Breast Cancer be Offered Genetic Testing? A Debate Grand Ballroom	*B06: Building Stronger Communities: Confronting White Womanhood Room 155BC	a Manuso Journal: / Workshop Facilitatin and Profe Developn	nent for Counselors	*B08: Improvir Communicatio All Your Patien Techniques to Communicate Literacy and Li Room 255BC	n With ts: Across	*B09: Leadership Workshop for New Genetic Counselors Room 355EF	*B10: So Consumer Genetics Is Here What Is the Role of the Genetic Counselor, and How Do We Deal With This in Clinic? Room 355BC
11:45 am - 1:30 pm	Exhibitor Suite Open 1	Exhibit Halls A-B, Level 1						
12:30 pm — 1:00 pm	Marketing and Commun	ications Workgroup Me	eting Ro	om 259				
12:30 pm — 1:30 pm	Committee Meetings							
	Education Committee Room 355A		Outcome Room 26	es Committee 10B			Public Policy Comm Room 257B	nittee Meeting
12:30 pm – 1:45 pm	CEU Sponsored Lunch S	Sessions						
	B11: Unparalleled Clarity a Answers Beyond DNA Room 250	and New Mutations: Clinic	cal RNA Tes	ting Provides	B12: Importan Prenatal General Room 251		ments for Precision M	edicine in Oncology and
	Sponsored by: Ambry (Genetics			Sponsored b	y: Myriad	Genetic Laborator	ies
12:45 pm — 1:45 pm	Membership Committee	I Room 260A						
1:15 pm — 2:15 pm	Committee Meetings							
	Access and Service Deli Room 257A	very Committee	Program Room 25	Committee 5D			Practice Guideline Room 258	s Committee
2:30 pm – 3:45 pm	CEU Educational Breako	out Sessions						
	B13: "Dear Seymour": The Work and Applications of I Seymour Kessler's Semina Papers on Psychosocial Aspects of Genetic Counseling Room 155BC	Or. Risk Scores for Cor	nplex Cardio,	B15: From Ge Genomics: Ev Implications for Room 255BC	olving Liability or Practitioners	Teratolog		B17: Seriously, Can Online Education Work for Genetic Counseling? Adapting to the Demands o Training More and Diverse Genetic Counselors Room 155EF
3:45 pm – 4:15 pm	Exhibitor Suite Open / N	etworking Break Exh	ibit Halls A-	B, Level 1				
4:15 pm – 5:20 pm	CEU B18: Dr. Beverly Roll	nick Memorial Lecture: L	iving a Life	Worth Celebrati	ng I Grand Ball	room		
5:20 pm — 5:50 pm	CEU B19: Audrey Heimler	Special Project Award P	resentation	I Grand Ballro	oom			
5:30 pm — 7:30 pm	Exhibitor Suite Open 1	Exhibit Halls A-B, Level 1						
6:00 pm - 7:15 pm	SIG Leaders Reception	Room 255D						
6:00 pm - 7:15 pm	Past Board Member Rec	eption Room 355A						
6:15 pm – 7:30 pm	CEU B20: Posters With Au	uthors, Group B Posters	l Exhibit Ha	alls A-B, Level 1				
7:00 pm — 10:00 pm	Various Program Reunio	ns See page 14 for m	ore informa	ation				
7:30 pm – 8:45 pm	CEU Sponsored Evening							
	B21: Understanding Resid Reported Ancestry vs. Mol <i>Room 250</i>		rier Screen	ing: Self-	B22: An Overv Personalized/F Room 251			and Current Status of
	Sponsored by: Sema4				Sponsored b	y: Sanofi	Genzyme	

Schedule-at-a-Glance continued

THURSDAY, N	IOVEMBER 7	7										
7:00 am - 6:30 pm	Registration Open		gistration									
7:00 am - 7:45 am	SIG Meetings											
	CF and CFTR Spectrum SIG Room 257A	Educati Room 2		Leadership and Management SI Room 255D		Internation Room 355		Psychia Room 2	atric SIG 258	Ophthalmo and Hearin Loss SIG Room 260A	g	Metabolic/LSD SIG Room 260B
7:00 am - 7:45 am	CEU Sponsored Bre	akfast S	essions							-		
	C01: Chromosomal M Number Variant Detect Room 250 Sponsored by: Pre	ction from	Next Genera			e Copy	Identify and Room 251	d Unders	osed Second I stand Comple erkinElmer		izing Geno	omic Technologies to
7:00 am – 8:00 am	Mindful Yoga Mar	riott Hote		Room Pre-regis	tration	n required	.,					
8:00 am – 9:15 am	CEU CO3: NSGC Stat	e of the S	Society Addres	ss I <i>Grand Ballrod</i>	om							
9:15 am – 9:45 am	Incoming Presidenti	al Addre	ss Grand E	Ballroom								
9:45 am – 10:20 am	Exhibitor Suite Oper	ı / Netwo	rking Break	. Exhibit Halls A-	B, Lev	rel 1						
10:20 am – 11:35 am	CEU Platform Prese	ntations										
	C04: Access and Service Delivery Room 255EF		C05: Cance Grand Ballro			: Cardiovas m 255BC	scular	Arc	7: Conversation Diversity om 155EF		CO8: Pr Room 1	
11:35 am – 3:00 pm	Exhibitor Suite Oper	ı l Exhib	it Halls A-B, L	Level 1								
12:00 pm – 1:15 pm	SIG Meetings											
	Cancer SIG Room 155D	Researce Room 2		Neurogenetics Room 355A		ART/Infer Room 355	-	Labrate SIG Room 2	ory/Industry 258	Cardiovaso SIG Room 259	ular	Pediatric and Clinical Genetics SIG Room 260B
12:00 pm – 1:15 pm	CEU Sponsored Lun	ch Sessi	ons									
	C09: Functional Mode Room 250 Sponsored by: Invi		e Next Fronti	er in Variant Interp	retatio	n	C10: How to Room 251 Sponsore			nical Pitfalls as	s a Geneti	ic Counselor
12:15 pm — 12:45 pm	American Board of (Genetic C	Counseling (A	ABGC) Business M	1eetin	ı g I Grand	d Ballroom					
12:45 pm — 1:15 pm	Accreditation Counc	il for Ge	netic Counse	eling (ACGC) Prese	entatio	on I Gran	d Ballroom					
12:15 pm — 1:15 pm	Precision Medicine	SIG Meet	ing Room	255D								
1:20 pm — 2:35 pm	CEU C11: Posters W	th Author	s, Group C Aı	uthors Exhibit Ha	alls A-i	B, Level 1						
2:45 pm — 3:00 pm	The Gnome and Bey	ond Sca	venger Hunt	and Passport to I	Prizes	Drawing	I NSGC Ce	entral Bo	oth #415			
3:10 pm — 4:40 pm	CEU Educational Br	eakout S	essions									
	C12: A History of Ger Discrimination: Review Our Past and Looking Toward the Future Room 255BC	wing	Session: Ge in Research in Clinic to a Room 255E		Pulm in Ad <i>Rooi</i>	nonary Ger dulthood m 155BC	ystic Fibrosi netic Disorde	ers Co Tes Ca <i>Ro</i>	5: Challenging mfort Zone: D sting Strategie rdiovascular (om 155EF	ebated es in	Town: D Role of in Varia Clinical Case Re	ne New GC in Demystifying the Gene Curation Int Interpretation, Reporting and Deanalysis Ballroom
5:00 pm — 5:35 pm	CEU C17: Human Ge					nd Clinical	Practice I	Grand B	Pallroom			
5:35 pm — 5:50 pm	CEU C18: Best Full N											
5:50 pm — 6:05 pm	CEU C19: Beth Fine											
6:05 pm — 6:35 pm	CEU C20: Jane Enge	lberg Mei	morial Fellow	ship (JEMF) Preser	ntation	I Grand	Ballroom					

KEY:



THURSDAY, N	NOVEMBER 7 con	TINUED						
6:45 pm - 7:30 pm	Available Resources and Su	pport for Telegenetic	cs: Progra	ms of the NYM	AC Regional G	enetics Ne	twork Room 259)
7:00 pm — 9:00 pm	Code Talker Award Ceremon Room 251 Presented by: Invitae and	•						
7:00 pm — 10:00 pm	Unwind at Keys on Main 242 South Main St. Sponsored by: ARUP Labor	ratories						
7:00 pm — 10:00 pm	Various Program Reunions	See page 14 for m	ore informa	ation				
FRIDAY, NOV	EMBER 8							
7:00 am - 1:00 pm	Annual Conference Outreach	Event Room 255	5D					
7:30 am - 2:30 pm	Registration Open East Re	gistration						
7:00 am - 7:45 am	Sponsored Breakfast Sessio	ns						
	CEU D01: A Brave New World Spinal Muscular Atrophy Room 250 Sponsored by: Integrated O		ce With Nev	w Therapies for	D02: The ABO Room 251 Sponsored I		Genetic Testing	
8:00 am - 9:30 am	CEU Education Breakout Se	ssions						
	D03: In Utero Stem Cell Transplantation: Historical Context, Present State and the Future of Fetal Molecular Therapies Room 155BC	D04: The Emerging of Genetic Counseld Consumers Embrac Genomic Screening Room 255EF	ors as e Healthy	D05: Getting to of Our Practice an Evidence B. Improve Cardio Genetic Couns Room 255BC	e: Developing ase to ovascular	Patients What to	w to Talk to Your About Imaging: Do When There CCN Guidelines allroom	D07: Weighing the Alternatives: Non-traditional Approaches to Improve Genetic Counseling Access and Efficiency Room 155EF
10:00 am - 10:50 am	CEU D08: Meeting the Demar	nd for Genetic Counse	eling Throu	gh Artificial Intell	igence: Can We	Clone Our	Skill Set? I Grand	Ballroom
10:50 am - 11:50 am	CEU D09: Late-Breaking Plen	ary: Emerging Therap	ies for Adu	It-Onset Neurolo	gic Diseases: F	ossibilities	, Pitfalls and Patient	Impact I Grand Ballroom
12:15 pm — 1:30 pm	CEU Platform Presentations							
	D10: Education Room 255EF	D11: Ethical and Psychosocial Resea Room 255BC	ırch	D12: Neuromu Psychiatric Room 155EF	iscular/		ient Utilization of Fest Results 55BC	D14: Innovations in Somatic Tumor Testing Grand Ballroom
2:00 pm - 5:30 pm	CEU Post-Conference Symp	osia Pre-registrati	ion required	d				
	D15: Genetic Counselor Finger Business Side: Clinical Produc Development and Lifecycle Sk Room 355BC	t Strategy,					D17: Late-Breakin Room 355EF	g Cancer Topics



November 5-8, 2019

Salt Palace Convention Center Salt Lake City, Utah

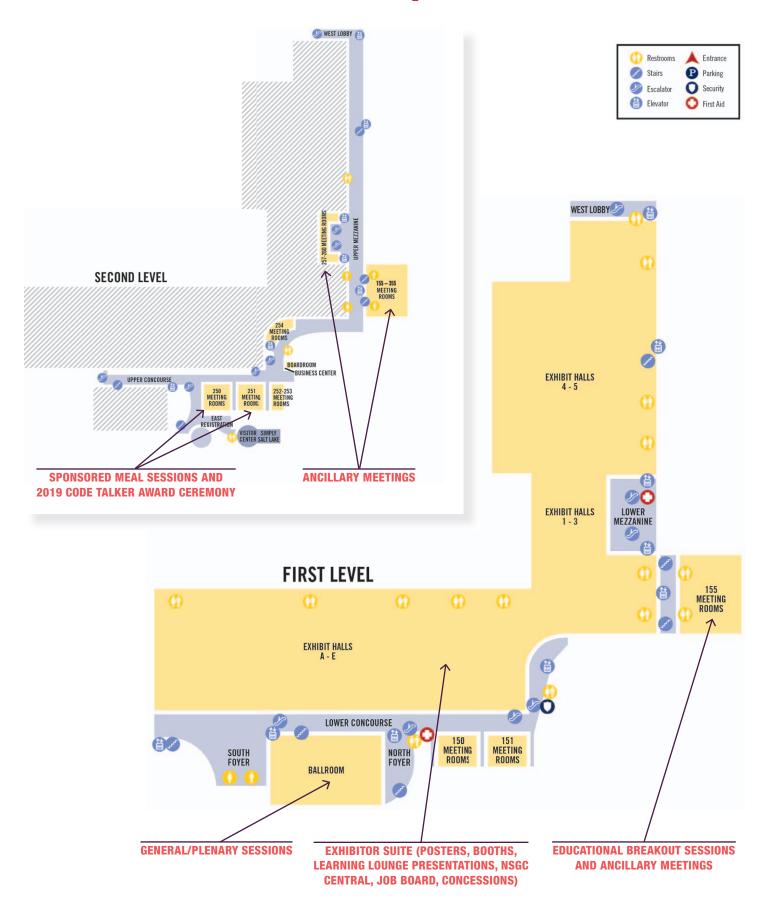
Visit Booth #802

to learn more about communication and collaboration in biomarker testing.

Stay up-to-date on precision medicine in oncology at **AZOncologyID.com**



Convention Center Map



Reunion Information

Time	Reunion Name	Location
TUESDA	Y, NOVEMBER 5	
7:00 pm	University of Maryland	Lake Effect 155 West 200 Street 801.285.6494
7:00 pm	University of Utah Graduate Program in Genetic Counseling	Squatters Pub 147 Broadway 801.363.2739
7:30 pm	The Ohio State University Genetic Counseling Graduation Program	BTG Wine Bar 404 South West Temple Street 801.359.2814
7:30 pm	Case Western Reserve University	Settebello 260 South 200 West 801.322.3556
7:30 pm	University of Arkansas for Medical Sciences	Buca di Beppo 202 West 300 South 901.575.6262
8:00 pm	Stanford Genetic Counseling Program	Under Current (Mezzanine) 270 South 300 East 801.574.2556
WEDNES	SDAY, NOVEMBER 6	
7:00 pm	Sarah Lawrence College	Squatters Pub 147 Broadway 801.363.2739
7:00 pm	University of Alabama at Birmingham	Buca di Beppo 202 West 300 South 801.575.6262
7:00 pm	Keck Graduate Institute	T.F. Brewing 936 South 300 West 385.270.5972
7:30 pm	Bay Path University Masters of Science in Genetic Counseling Program	Salt Lake Marriott Downtown at City Creek 75 South West Temple 801.537.0800
7:30 pm	Boston University Genetic Counseling Program	Bourbon House 19 East 200 South 801.746.1005
7:30 pm	University of Pittsburgh Genetic Counseling Program	Kimpton Hotel Monaco 15 West 200 South 801.595.0000 Please RSVP: publichealth.pitt.edu/nsgc
7:30 pm	Wayne State University	Poplar Street Pub 242 South 200 West 801.532.2715
8:00 pm	Brandeis University	Lake Effect (Rabbit Hole Room) 155 West 200 Street 801.285.6494
8:00 pm	Cincinnati Genetic Counseling Graduate Program	Squatters Pub (The Potting Shed Room) 147 Broadway 801.363.2739
8:00 pm	University of Minnesota Genetic Counseling Program	Stanza Bistro and Wine Bar 454 East 300 South 801.746.4441
8:00 pm	University of Michigan	Gracie's 326 South West Temple 801.819.7565
THURSD	AY, NOVEMBER 7	
6:30 pm	Augustana-Sanford Genetic Counseling Graduate Program	Gracie's 326 South West Temple 801.819.7565
6:30 pm	Emory Genetic Counseling Training Program	Sonoma Grill 110 West Broadway 801.890.6612
7:00 pm	LIU Post Genetic Counseling Graduate Program	Kimpton Hotel Monaco Salt Lake City (Bambara Restaurant) 15 West 200 South 801.990.9731
7:00 pm	Mount Sinai Genetic Counseling Program	Sonoma Grill 110 West Broadway 801.890.6612
7:00 pm	University of Texas Genetic Counseling Program	Squatters Pub (#134) 147 Broadway 801.363.2739
7:30 pm	Northwestern University Graduate Program in Genetic Counseling	Caffe Molise 404 South West Temple 801.364.8833
8:00 pm	Canadian Programs Reunion	From Scratch 62 East Gallivan Avenue 801.961.9000



Introducing



BEYOND DNA FOR UNPARALLELED CLARITY

+RNAinsight works in tandem with DNA testing to identify more patients with hereditary cancer, decrease variants of unknown significance in real-time, and provide more accurate results to inform patient care.^{1,2}

RNAinsight.com/NSGC2019

2. Karam R. et al. RNA Genetic Testing in Hereditary Cancer Improves Variant



Session Speakers + Objectives

TUESDAY, NOVEMBER 5

Pre-Conference Symposia

8:00 am - 2:00 pm

A01: A Heart to Heart Training: Advanced Topics in Traumatic Events Using Cardiogenetics as an Illustration

5.0 Contact Hours

Heather MacLeod, MS CGC, SDY Case Registry Data Coordinating Center; Samuel Sears, PhD, East Carolina University; Cindy James, ScM, PhD, CGC, Johns Hopkins University; Jodie Ingles, MPH, PhD, The University of Sydney; Christina Rigelsky, MS, LGC, Cleveland Clinic; Rebecca Miller, LCGC, Inova Health System; Rebecca McClellan, MGC, CGC, Johns Hopkins Center for Inherited Heart Disease; Tara Hart, MS, CGC, GeneDx; Shannon Hourigan, PhD, Inherited Cardiac Arrhythmia Program at Boston Children's Hospital

- Examine the psychosocial impact of traumatic cardiac events on the patient.
- Explore how traumatic diagnoses affect family members and family relationships.
- Illustrate the impact of genetic testing on patients and families facing traumatic events.
- Identify resources to support patients and families experiencing traumatic diagnoses events.

Attendance Verification Code:	

A02: Building Skill for Cultural Conversations in Genetic Counseling

5.0 Contact Hours

Liza Talusan, PhD, LT Coaching and Consulting, LLC

- Examine our own individual identities and the role that our identities play in our work.
- Identify salient learned biases that have been developed in our work and lives.
- Build skills for engaging in difficult conversations around identity and identity-consciousness.
- Create individual, departmental and institutional action plans for how to get proximate to issues of identity.

Attendance Verification Code:	

A03: Practical Tips for the Practicing Genetic Counselor: Somatic Testing and Hematologic Cancers

5.0 Contact Hours

Jennie Vagher, CGC, Huntsman Cancer Institute; Jaclyn Schienda, ScM, LGC, Dana-Farber Cancer Institute; Brian Shirts, MD, PhD, University of Washington; Jilliane Sotelo, MS, LGC, Thermo Fisher Scientific; Dana Farengo Clark, MS, MS, LCGC, University of Pennsylvania-Abramson Cancer Center; Kelly Knickelbein, MS, CGC, Thermo Fisher Scientific; Shannon Stasi, MS, LCGC, Seattle Children's Hospital; Pia Summerour, MS, CGC, Ambry Genetics; Prapti Patel, MD, UT Southwestern Medical Center; Elise Fiala, MS, CGC, Memorial Sloan Kettering

- Summarize the current state of the science of hematological malignancies, including new hereditary hematological malignancy gene discovery, common hematological malignancies encountered in family history, and clonal hematopoiesis of indeterminate potential (CHIP).
- Present a clinical toolkit for incorporating somatic testing into a genetic counselor's clinic workflow including referrals from oncologists, discussions at tumor boards and test selection.
- Compare the technologies and bioinformatic strategies used in different aspects of somatic testing including: solid tumors, hematologic cancers and liquid biopsies.

Attendance Verification Code:	

A04: Measuring Up: Incorporating Patient Reported Outcomes in Clinic and Research

5.0 Contact Hours

Megan T. Cho, ScM, Johns Hopkins University, National Institute of Health Genetic Counseling Training Program; Kelly East, MS, CGC, HudsonAlpha Institute for Biotechnology; Karen Sepucha, PhD, Massachusetts General Hospital; Marion McAllister, MSc, PhD, Cardiff University, University Hospital of Wales; Barbara Biesecker, PhD, MS, CGC, RTI International; Janet L. Williams, MS, LGC, Geisinger; Vincent Staggs, PhD, Children's Mercy Kansas City, University of Missouri KC; Courtney Berrios, MSc, ScM, CGC, Children's Mercy Kansas City

- Summarize important criteria in evaluating and selecting patient reported outcome measures (PROMs) for use in clinic and research.
- Discuss interpretation and limitations of statistical analysis of PROMs.
- Practice applying PROMs to research questions.
- Consider ways to incorporate outcome measurement into one's clinical practice.

ndance Verification Code:	

A05: Perinatal Palliative Care and the Genetic Counselor: Optimizing Multi-Disciplinary Collaboration for Holistic Care of Critically III Infants and Their Families

5.0 Contact Hours

Rebecca Carter, MS, CGC, The University of Texas Health Science Center at Houston; Callie Diamonstein, MS, LCGC, UT Southwestern Medical Center, prior Inova Health System; Katrina Villegas, MA, Mama's Organized Chaos; Kristine Kowalski, MDiv, BCC, Johns Hopkins Hospital; Melissa Eatherly, MSN, FNP-BC, RNC-NIC, Inova Children's Hospital; Ryann Bierer, MD, University of Utah School of Medicine; Kathie Kobler, PhD, APRN, PCNS-BC, CHPPN, FPCN, Advocate Children's Hospital; Katelynn Sagaser, MS, CGC, Johns Hopkins Hospital

- Summarize existing literature surrounding palliative care in perinatal loss.
- Illustrate the roles of multiple healthcare professionals contributing to a perinatal palliative care team, including the distinct input of prenatal and pediatric genetic counselors.
- Describe proposed methods of collaboration with other disciplines and organizations to achieve optimal palliative care practice.
- Examine self-care techniques related to the professional and personal impact of working in palliative care.

Attendance Verification Code:	

A06: Redesigning the Way We Work to Improve Efficiency 5.0 Contact Hours

Maria Ana Barrera, BA, MPS, Designit; Erin Miller, MS, LGC, Cincinnati Children's Hospital Medical Center; Kendra Schaa, ScM, CGC, University of Iowa Hospitals and Clinics; Alekhya Narravula, MSc, MS, CGC, Centogene AG

- Identify common areas of inefficiencies and the benefits of addressing such areas to the genetic counseling workforce.
- Recognize principles of creative problem solving and design methodologies in the healthcare setting.
- Discuss application of learned methods in the healthcare setting.
- Apply learned methods to arrive at creative solutions to common inefficiencies reported by genetic counselors.

Attendance Verification Code:		

Plenary Sessions

3:15 pm - 3:45 pm

A07: 40 Years of the Genetic Counseling Profession: A Foundation for the Future

0.50 Contact Hour

Wendy Uhlmann, MS, CGC, University of Michigan Medical Center; Jennifer Malone Hoskovec, MS, CGC, University of Texas Medical School Houston; Mary Freivogel, MS, CGC, Invitae

- Examine the specific ways NSGC has supported growth of the profession of genetic counselors in the past, present and future.
- Illustrate strategies that successful genetic counselors have used to elevate our profession in the past and present that can be applied to the future.
- Examine how the history of our profession and its professional organization impacts genetic counselors today and in the future.

4:15 pm - 4:45 pm

A08: Enabling the Beautiful Uncertainty of Life: My Journey With PGT-M

0.50 Contact Hour

Lee Cooper, JD. MBA, The IGDP

- Summarize a patient's practical, clinical and emotional experience with having a life-threatening inherited genetic condition and using PGT-M to have a child free from the inherited disease.
- Examine the important role, from a patient's perspective, of genetic counselors and other healthcare providers in communicating patient's family planning options.
- Outline "take-home" messages that will improve messaging/knowledge about PGT-M.

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WEDNESDAY, NOVEMBER 6

Sponsored Breakfast Sessions

7:00 am - 7:45 am

B01: Look Before You Leap: The Clinical Value of Genome-Wide NIPT

0.50 Contact Hour

Sarah Brandenberger, MS, CGC, MBA, Medical and Scientific Liaison, Women's Health, Roche Diagnostics; Liz Kunz, MD, Global Medical Affairs Director, NIPT/Women's Health, Roche Sequencing Solutions

- Examine the technology that makes whole-genome NIPT possible.
- Explore why whole-genome NIPT is not equivalent to a noninvasive whole genome screening test.
- Review the clinical data surrounding an expanded menu with NIPT screening.
- Give examples of potential dilemmas surrounding counseling patients on expanded NIPT results.

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Attendance Verific	cation Code:	

B02: Termination of Pregnancy for Indications of Genetic Disorders or Fetal Anomaly in Advanced Gestations at Boulder Abortion Clinic

Warren Hern, PhD, Director of the Boulder Abortion Clinic

- Describe the relevance of these services to genetic counseling.
- Identify the purpose, basic principles and components of clinical practice including grief support.
- Outline the basic operative procedures and clinical results of this care.



Attendance Verification Code:

Session Speakers + Objectives continued

Plenary Sessions

8:00 am - 8:35 am

B03: Janus Lecture: Enzyme Replacement Therapy for Mucopolysaccharidosis: How Ongoing Research Can Change the Understanding of Rare Diseases

0.50 Contact Hour

Ashley Simpson Volz, MS, CGC, BioMarin Pharmaceutical, Inc.

- Describe the historical and current landscape of enzyme replacement therapies (ERT) for Lysosomal Storage Disorders (LSD).
- Examine how the pharmaceutical industry has adapted clinical trial design and support of post-marketing research to meet the needs of patients with Mucopolysaccharidosis (MPS).
- Discuss how the genetic counseling role within clinic and industry is evolving to address new challenges presented by MPS patients receiving ERT.

Attendance Verification Code:	

8:35 am - 9:35 am

B04: Professional Issues Panel

1.00 Contact Hour

Jodi Glickman

- Summarize the fundamentals of executive presence.
- Review techniques for increasing your confidence when speaking in front of a group.
- Identify ways to communicate with more clarity and credibility.

Attendance Verification Code:		

Workshops and Lectures

10:15 am - 12:15 pm

B05: Should All Women With Breast Cancer Be Offered Genetic Testing? A Debate

No Pre-registration required

2.0 Contact Hours

Mark E. Robson, MD, Memorial Sloan Kettering Cancer Center; Peter Beitsch, MD, Dallas Surgical Group - TME/Breast Care Network; Sue Friedman, DVM, FORCE; Lisa Madlensky, PhD, CGC, UC San Diego – Moores Cancer Center; David Euhus, MD, Johns Hopkins University

- Distinguish the relative risks and benefits of germline genetic testing for all women with breast cancer.
- Compare different panel testing strategies for all women with breast cancer
- Propose potential implementation of germline genetic testing for all women with breast cancer.

Attendance Verification Code	:

B06: Building Stronger Communities: Confronting White Womanhood*

2.0 Contact Hours

Rhiannon Childs, Ohio Women's Alliance; Heather Marie Scholl, BA, MFA, Confronting White Womanhood; Sophie Ellman-Golan, BA, Jews Against White Nationalism

- Define privileged identity.
- Articulate experiences of privilege and racial harm.
- Examine how to use one's own experiences to engage with other privileged people with differing views.
- Analyze areas where one can use their privileged identity to support underrepresented individuals.

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*We do not believe in creating white-only spaces; all people are welcome to attend our workshop. We recognize that as a society, there are many areas to tackle in order to fully address privilege and discrimination. We designed this particular workshop to focus on educating and informing white women, committed to being part of an intersectional feminist movement, to unpack the ways they uphold and benefit from white privilege. We anticipate that these frank discussions and stories may be triggering, especially for people of color, and invite you to share your concerns with our trained moderators.

B07: How to Review a Manuscript for a Journal: A Practical Workshop Aimed at Facilitating Research and Professional Development for Genetic Counselors

2.0 Contact Hours

Kami Wolfe Schneider, MS, CGC, University of Colorado, Children's Hospital Colorado; Beverly Yashar, MS, PhD, University of Michigan; Heather Zierhut, PhD, MS, LGC, University of Minnesota; Melanie Myers, PhD, Cincinnati Children's Hospital Medical Center; Christina Palmer, MS, PhD, LCGC, UCLA

- Summarize the personal and professional benefits of acting as a peer reviewer for manuscripts that have been submitted for potential publication in journals.
- Differentiate elements of the process of manuscript review.
- Formulate the critical features of a manuscript review.
- Identify ethical considerations associated with reviewing a manuscript for a journal.

B08: Improving Your Communication With All Your Patients: Techniques to Communicate Across Literacy and Language

2.0 Contact Hours

Galen Joseph, PhD, University of California San Francisco; Mari Gilmore, MS, CGC, Kaiser Permanente Center for Health Research; Laura Amendola, MS, CGC, University of Washington; Robin Tropp Lee, MS, LCGC, University of California San Francisco

- Identify principles of and evidence-based strategies for effective communication with patients of various health literacy and numeracy levels.
- Identify excerpts in transcripts of genetic and genomic counseling sessions in which communication strategies impeded and enhanced the genetic counseling process.
- Discuss specific communication strategies and techniques for improving patient engagement, comprehension and satisfaction in the counseling session.
- Practice strategies that improve patient comprehension and engagement.

Unrestricted educational support provided by:



Attendance Verification Code:

B09: Leadership Workshop for New Genetic Counselors

2.0 Contact Hours

Elizabeth Kearney, MS, CGC, MBA; Erica Ramos, MS, LCGC, Geisinger

- Explore qualities of leadership.
- Examine unconventional examples of leadership.
- Define leadership in terms of outcomes instead of title or position.
- List core values to begin an authentic leadership journey.

Attendance Verification Code:	
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B10: So Consumer Genetics Is Here... What Is the Role of the Genetic Counselor, and How Do We Deal With This in Clinic?

2 Contact Hours

Teresa Kruisselbrink, MS, LCGC, Mayo Clinic; Johanna Schmidt, MPH, MGC, LCGC, Westside Genetic Counseling; Robin King, MS, LCGC, PWNHealth; Altovise Ewing, PhD, LCGC, 23andMe; Amy Sturm, MS, LGC, Geisinger; Shannon Kieran, MS, LCGC, MBA, Intelliger Consulting; Sara Riordan, MS, LCGC, Intelliger Consulting; Elissa Levin, MS, CGC, Helix

- Formulate an approach to critically assess consumer genetic testing products and services in order to best serve your patients, friends and family.
- Examine how genetic counselors are applying their core skills within the consumer genetics industry across a spectrum of roles to apply patientcentric approaches.
- Examine how clinical genetic counselors are creating roles to address the needs of consumers who have engaged in consumer-initiated genetic testing services, in both private and traditional clinical practice.

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Sponsored Lunch Sessions

12:30 pm - 1:45 pm

B11: Unparalleled Clarity and New Mutations: Clinical RNA Testing Provides Answers Beyond DNA

1.0 Contact Hour

Rachid Karam, MD, PhD, Ambry Genetics

- Explain basic information about the role of RNA genetic testing in variant detection and classification.
- Demonstrate that overall impact of paired DNA/RNA genetic testing in the positive yield and VUS rate.
- Discuss latest data and specific simultaneous DNA/RNA genetic testing case examples.

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Attendance Verific	cation Code:	

B12: Important Advancements for Precision Medicine in Oncology and Prenatal Genetics

1.0 Contact Hour

Dale Muzzey, PhD; Nassim Taherian, M.Sc.

- Highlight the importance of genetics in all aspects of human health and disease.
- Define the critical role that genetic testing plays in oncology treatment.
- Define the history of expanded carrier screening.
- Illustrate the limitations of ethnicity-based carrier screening guidelines.

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Session Speakers + Objectives continued

Educational Breakout Sessions

2:30 pm - 3:45 pm

B13: "Dear Seymour": The Work and Applications of Dr. Seymour Kessler's Seminal Papers on Psychosocial Aspects of Genetic Counseling

1.25 Contact Hours

Liane J. Abrams, MS, LCGC, UCSF, CSU Stanislaus; Barbara Biesecker, PhD, MS, CGC, RTI International; Andrea Fishbach, MS, MPH, LCGC, Kaiser Permanente Medical Group; Kathryn Sptizer Kim, MS, CGC, Stanford University; Robert Resta, MS, LCGC, Hereditary Cancer Clinic, Swedish Medical Center

- Review how teaching and counseling models can be integrated to meet client needs using challenging case examples.
- Examine the differences between client shame and guilt and how proper assessment is essential to achieving positive client outcomes.
- Identify the importance of understanding the inner world of the counselor to recognize and manage counter-transference.
- Underscore the importance of social systems and family coping assessment as part of genetic counseling practice.
- Highlight Dr. Kessler's central and innovative contributions to the genetic counseling practice.

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B14: Digging Into Polygenic Risk Scores for Complex Disorders: Cancer, Cardio, Psychiatry... and More!

1.25 Contact Hours

Lasse Folkersen, MSc, PhD, Sankt Hans Mental Hospital; Tatiane Yanes, BSc, MSc, So+Gi Scan, UNSW Sydney; Jehannine Austin, PhD, CGC, University of British Columbia; Colleen Caleshu, MS, CGC, Stanford Center for Inherited Cardiovascular Diseases

- Identify diseases best suited to polygenic risk scores.
- Critique the performance of different polygenic risk scores.

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B15: From Genetics to Genomics: Evolving Liability Implications for Practitioners

1.25 Contact Hours

Susan M. Wolf, JD, University of Minnesota; Gary Marchant, PhD, JD, Sandra Day O'Connor College of Law, Arizona State University; Bonnie S. LeRoy, MS, LGC, University of Minnesota

- Describe the liability risks facing genetic counselors and other clinicians as genomic-scale testing becomes a part of medical care.
- Discuss how the current law addressing genetics must evolve to address genomics.

B16: Hot Topics in Teratology: Zika, Marijuana and Maternal Therapies for Genetic Disease

1.25 Contact Hours

Victoria Wagner, MS, CGC, McGovern Medical School at The University of Texas Health; Myla Ashfaq, CGC, McGovern Medical School at The University of Texas Health; Jennifer Lemons, CGC, McGovern Medical School at The University of Texas Health

- Summarize key features of congenital Zika syndrome and related genetic counseling considerations.
- Examine existing data regarding marijuana use in pregnancy and reported postnatal outcomes.
- Critique available information concerning potential teratogenicity of novel therapies for common genetic disorders.

Unrestricted educational support provided by:	Capital Women's Services
Attendance Verification Code:	

B17: Seriously, Can Online Education Work for Genetic Counseling? Adapting to the Demands of Training More and Diverse Genetic Counselors

1.25 Contact Hours

Jennifer Eichmeyer, MS, LCGC, Boise State University; Janice Berliner, MS, LCGC, Bay Path University; Nicolle Dickey, MS, Boise State University; Megan Parker, MS, Methodist Le Bonheur Healthcare; Stephanie Gandomi, MS, LCGC, Boise State University; Colleen Dougherty, MS, LCGC, Bay Path University; Leslie Ordol, MSc, CGC, Boise State University

- Identify online education pedagogy and process.
- Summarize online education standards as well as methods for meeting ACGC standards for genetic counselor training utilizing online learning.
- Examine online versus on-ground adult learner characteristics, and how online education is used in adult learning.
- Generalize student and teacher experiences in the online learning processes.

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Plenary Sessions

4:15 pm - 5:20 pm

B18: Dr. Beverly Rollnick Memorial Lecture: Living a Life Worth Celebrating

1.00 Contact Hour

Rebecca Alexander, LCSW-R, MPH

- Examine the lived patient experience during the delivery of a genetic diagnosis.
- Illustrate one patient's journey of loss, resilience, perseverance and hope following a diagnosis of Usher Syndrome.

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B19: Audrey Heimler Special Project Award Presentation

0.50 Contact Hour

Sara Pirzadeh-Miller, MS, CGC: Andrea Durst, MS, DrPH, LCGC: Rebecca Vanderwall, MS, MPH; Raluca Kurz, MS, LCGC

- Review the history of the Audrey Heimler Special Project Award and provide an update on current initiatives.
- Describe the Public Health Genetics and Precision Medicine Roles fellowship and its impact in the first year of implementation through the NSGC Public Health Genetics SIG.

Attendance Verification Code: ___

Sponsored Evening Sessions

7:30 pm - 8:45 pm

B21: Understanding Residual Risk in Expanded Carrier Screening: Self-Reported Ancestry vs. Molecular Ancestry

1.0 Contact Hour

Ashley Birch, PhD, FCCMG, DABMGG; Mitchell W. Dillon, MS, CGC

- Describe how to calculate residual risk for autosomal recessive and X-linked conditions.
- Discuss how modifiers of residual risk may be used, focusing on Spinal Muscular Atrophy.
- Review molecular ancestry determination and how it might be used in personalized residual risk calculation.

Sponsored by: Semal

Attendance Verification Code:

B22: An Overview of the Historical Perspective and Current Status of Personalized/Precision Medicine

1.0 Contact Hour

Nadene Henderson, MS, LCGC, UPMC Children's Hospital of Pittsburgh; Neil Weinreb, MD, FACP, University of Miami Miller School of Medicine Miami, University Research Foundation for Lysosomal Storage Diseases, International Collaborative Gaucher Group, National Gaucher Foundation

- Examine how defining the phenotype/genotype relationship have clinical and therapeutic implications.
- Describe disease variability and associated conditions.
- Discuss prenatal screening and diagnosis as well as recommendations for managing patients with Gaucher disease (GD).
- Review genetic counseling issues, genetic testing, inheritance patterns and screening recommendations for GD.
- Apply knowledge gained of GD through a review of sample case examples.

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Attendance Verification Code:

THURSDAY, NOVEMBER 7

Sponsored Breakfast Sessions

7:00 am - 7:45 am

CO1: Chromosomal Microarray: Going, Going, Gone? Comprehensive Copy Number Variant Detection From Next Generation Sequencing Data

0.50 Contact Hour

Diane J. Allingham-Hawkins, PhD, FCCMG, FACMG, PreventionGenetics

- Explain the benefits and limitations of copy number variant detection by next generation sequencing.
- Compare copy number variant detection by next generation sequencing to other methods of copy number variant detection such as chromosomal microarray.
- Provide examples of how performing copy number variant detection by next generation sequencing adds value to a sequencing test.

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Attendance Verification Code:

CO2: The Undiagnosed Second Diagnosis: Utilizing Advanced Genomic Technologies to Identify Dual Diagnoses and Understand Complex Phenotypes

0.50 Contact Hour

Madhuri Hegde, PhD, FACMG, PerkinElmer Genomics

- Summarize the challenges of identifying dual diagnoses from a clinical perspective and a molecular laboratory perspective.
- Evaluate cases of complex histories resulting from dual diagnoses.

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Attendance Verification Code:

Plenary Sessions

8:00 am - 9:15 am

CO3: NSGC State of the Society Address

1.00 Contact Hour

Amy Sturm, MS, CGC, LGC

- Describe the activities of NSGC over the past year as related to the advancement of the profession of genetic counseling.
- Assess NSGC's advocacy efforts over the course of 2019.
- Identify opportunities for supporting diversity and inclusion in the profession of genetic counseling.

Attendance Verification Code:

Session Speakers + Objectives continued

9:15 am - 9:45 am

Incoming Presidential Address

Gillian Hooker, PhD, ScM, LCGC

Welcome NSGC President-Elect Gillian Hooker, as she introduces herself to NSGC members and outlines her vision for NSGC and the genetic counseling profession in 2020.

Attendance Verification Code:

Sponsored Lunch Sessions

12:00 pm - 1:15 pm

CO9: Functional Modeling – The Next Frontier in **Variant Interpretation**

1.0 Contact Hour

Brandie Heald Leach, MS, LGC, Cleveland Clinic; Carlos Araya, PhD, Invitae

- Indicate how often to expect VUS results with diagnostic testing and describe traditional approaches to VUS resolution.
- Describe the role of functional modeling as an additional evidence type that can assist in variant classification.
- Describe different functional approaches to variant interpretation and their utility.
- Review data from the retrospective implementation of a novel functioning modeling platform in a clinical laboratory, including impact on VUS rates.

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Attendance Verification Code:

C10: How to Avoid Legal and Ethical Pitfalls as a **Genetic Counselor**

1.0 Contact Hour

Jane Pine Wood, Esq., BioReference Laboratories, Inc., Stephanie DeWard, MS, CGC, GeneDx, Rachel T. Klein, MS, CGC, My Gene Team, LLC

- Describe legal and compliance considerations with billing and genetic test ordering.
- Discuss policies and best practice around duty to recontact.
- Identify and discuss clinical scenarios that present legal and ethical challenges from a HIPAA and compliance perspective.



Attendance Verification Code:

Educational Breakout Sessions

3:10 pm - 4:40 pm

C12: A History of Genetic Discrimination: Reviewing Our **Past and Looking Toward the Future**

1.5 Contact Hours

Laura Hercher, MA, MS, CGC, Sarah Lawrence College; Tina Sacks, PhD, UC Berkeley's School of Social Welfare; Vivian Ota Wang, PhD, CGC, FACMG, NHGRI

- Examine historical examples of eugenics and discrimination and their impact on current healthcare inequities and racial disparities in genetic medicine and research.
- Propose strategies that genetic counselors can implement in their own institutions to highlight existing genetic discrimination and proactively reduce barriers to genetic-based care.

Attendance Verification Code:

C13: NSGC and ASHG Joint Session: Genetic Counselors in Research: From Dabbling in Clinic to an NIH Grant

1.5 Contact Hours

Julia Wynn, MS, MS, CGC, Columbia University Irving Medical Center; Adam Buchanan, MS, MPH, CGC, Geisinger; Allison Cirino, MS, CGC, MGH Institute of Health Professions; Kira Dies, ScM, CGC, Boston Children's Hospital; Sarah Scollon, MS, CGC, Baylor College of Medicine, Texas Children's Hospital

- Describe variable roles for genetic counselors in research.
- Recognize genetic counselor-led research activities and outcomes.
- Demonstrate strategies for engaging in research across variable practice areas.
- Prepare all types of genetic counselors to engage in research activities.

C14: Beyond Cystic Fibrosis: Pulmonary Genetic Disorders in Adulthood

1.5 Contact Hours

Nikkola Carmichael, MSc, CGC, Boston Children's Hospital, Brigham and Women's Hospital; Janet Talbert, MS, CGC, InformedDNA, National Jewish Health; Maimoona Zariwala, MSc, PhD, FACMG, University North Carolina at Chapel Hill

- Identify characteristics of pulmonary genetic disorders in personal or family medical histories.
- Describe the health implications of pulmonary genetic disorders for the affected individual and their family.
- Explore resources for referring patients to appropriate specialty centers and patient support groups for additional care.

C15: Challenging the Comfort Zone: Debated Testing Strategies in Cardiovascular Genetics

1.5 Contact Hours

Lisa Castillo, MS, CGC, Northwestern University; Kyla Dunn, MS, LCGC, Stanford Center for Inherited Cardiovascular Disease; Melanie Care, MSc, CCGC, University Health Network – Toronto General Hospital; Melissa Kelly, MS, LGC, Geisinger; Heather MacLeod, MS, CGC, Sudden Death in the Young Case Registry

- Determine whether readily available expanded testing can replace more conservative options.
- Evaluate the clinical utility of genetic testing for indications without irrefutable evidence.
- Examine clinical scenarios which challenge the traditional genetic testing approach in a family.

Attendance Verification Code: _____

C16: The New GC in Town: Demystifying the Role of Gene Curation in Variant Interpretation, Clinical Reporting and Case Reanalysis

1.5 Contact Hours

Alicia Scocchia, MS, LCGC, Illumina, Inc.; Erin Riggs, MS, CGC, Geisinger; Jackie Tahiliani, MS, CGC, Invitae; Kelly Radtke, PhD, Ambry Genetics; Erin Thorpe, MS, LCGC, Illumina, Inc.

- Define the key principles and resources utilized in the practice of gene curation.
- Discuss how gene curation impacts variant interpretation.
- Examine the basic framework for gene curation, proposed by ClinGen.
- Examine how this framework is currently adapted by laboratories.
- Apply knowledge of gene-curation principles to critically assess clinical reports and ask informed questions of laboratories regarding genecuration protocols.
- Illustrate the benefits and complexities of gene-curation reanalysis and how this may impact updated clinical reports.

Attendance Verification Code:

Plenary Session

5:00 pm - 5:35 pm

C17: Human Genome Editing: The Current State of Research and Clinical Practice

0.50 Contact Hour

Forough Noohi, MSc, Human Genetics, McGill University

- Summarize current human gene therapy basic research and clinical trial initiations and results around the world.
- Examine genetic counselors' role in informing patients' choices in the fast growing field of gene editing technologies.

Attendance Verification Code:

Best Full Member Abstract Award Presentation

5:35 pm - 5:50 pm

C18: Clinical False-Negative Rate of Direct-to-Consumer Genetic Screening for Familial Hypercholesterolemia

0.25 Contact Hour

Sienna Aguilar, MS, LCGC

Describe a patient-initiated approach to genetic testing.

Attendance Verification Code:

Beth Fine Kaplan Student Abstract Award Presentation

5:50 pm - 6:05 pm

C19: Navigating Through Burden: Communicator Perspectives of Familial Risk Communication After a Sudden Cardiac Death of a Young Family Member

0.25 Contact Hour

Franceska Hinkamp, MS, UCLA Institute for Precision Health, Division of Genetics, Department of Pediatrics

 Identify the core challenges of risk communication faced by families who have experienced a sudden cardiac death in a young family member.

Attendance Verification Code: ____

Jane Engelberg Memorial Fellowship Presentation

6:05 pm - 6:35 pm

0.50 Contact Hour

Beverly Yashar, MS, PhD, CGC; Heather Zierhut, PhD, MS, CGC

- Review the history of the Jane Engelberg Memorial Fellowship (JEMF) award and provide and update on current initiatives.
- Define motivational interviewing and give an example of how the strategy can be used in the context of communicating risk information to family members.

Attendance Verification Code:

Session Speakers + Objectives continued

FRIDAY, NOVEMBER 8

Sponsored Breakfast Sessions

7:00 am - 7:45 am

D01: A Brave New World: A Family's Experience With New Therapies for Spinal Muscular Atrophy

Bob Wallerstein, MD: Amanda Schlemme

- Summarize how new spinal muscular atrophy (SMA) therapies are playing a critical role in the evolution of patient care for babies with SMA.
- Illustrate the importance of screening for SMA to identify affected children presymptomatically.
- Illustrate the clinical journey and genetic testing process that led to Colin's diagnosis.
- Examine the psychosocial journey that Colin's parents faced throughout the process.



Attendance Verification Code:

D02: The ABC's of DTC Genetic Testing

Stacey Detweiler, MS, LCGC, 23andMe, Inc.; Altovise Ewing, PhD, LCGC, 23andMe, Inc.; Anne Greb, MS, CGC, 23andMe, Inc.

- Demonstrate how DTC genetic testing relates to other categories of genetic/genomic testing.
- Describe different types of DTC genetic tests including criteria for FDA regulation (analytical/clinical validity; clinical utility).
- Develop a mutually agreed upon genetic counseling agenda based on client motivations for DTC genetic testing.
- Summarize the importance of understanding the DTC genetic testing consumer experience, including examples of how customers can tailor their experience.

Sponsored by:



Educational Breakout Sessions

8:00 am - 9:30 am

D03: In Utero Stem Cell Transplantation: Historical Context, **Present State and the Future of Fetal Molecular Therapies**

1.5 Contact Hours

Stefanie Kasperski, MS, LCGC, The Center for Fetal Diagnosis and Treatment at The Children's Hospital of Philadelphia; Billie Rachael Lianoglou, MS, UCSF Center for Maternal-Fetal Precision Medicine; Julie Harris-Wai, PhD, MPH, University of California San Francisco

- Detail the history of in utero stem cell transplantation.
- Summarize the risks and benefits of hematopoietic stem cell transplantation and the target diseases for which this therapy is currently offered.
- Describe target diseases for applying both in utero hematopoietic stem cell transplantation and other fetal molecular therapies including gene therapy.

Attendance Verification Code:	

D04: The Emerging Roles of Genetic Counselors as Consumers Embrace Healthy Genomic Screening

1.5 Contact Hours

Carrie Blout, MS, CGC, Brigham and Women's Hospital; Michelle Moore, MS, LCGC, Sanford Health Imagenetics; Allison Hazell, MSc, CGC, CCGC, Medcan: Sienna Aquilar, MS, LCGC, Invitae: Elissa Levin, MS, CGC, Helix: Jill Davies, MS, CGC, GeneMatters

- Define important considerations when developing a genomics clinic or program designed to provide preventive genomic screening options to seemingly healthy patients.
- Describe how clinical laboratories are adapting to meet consumer demands by offering healthy screening options.
- Describe healthy genomic screening options and considerations outside of the traditional clinical space.

Attendance Verification Code:

D05: Getting to the Heart of Our Practice: Developing an Evidence Base to Improve Cardiovascular Genetic Counseling

1.5 Contact Hours

Susan Christian, MSc, University of Alberta, Alberta Health Services; Katherine Spoonamore, MS, CGC, Indiana University School of Medicine; Brittney Murray, MS, CGC, Johns Hopkins University; Cynthia A. James, ScM, PhD, CGC, Johns Hopkins University; Jodie Ingles, MPH, PhD, The University of Sydney; Charlotte Burns, MGC, The University of Sydney, Hannah Ison, MS, LCGC, Stanford Center for Inherited Cardiovascular Disease

- Summarize predictors of uptake of cascade genetic testing.
- Describe the role of the genetic counseling-client relationship and demographic factors in predicting change in patient empowerment.
- Plan how to collect outcomes measures at your center.

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DO6: How to Talk to Your Patients About Imaging: What to Do When There Aren't NCCN Guidelines

1.5 Contact Hours

Yelena Wu, PhD, Huntsman Cancer Institute, University of Utah; Wendy Kohlmann, MS, Huntsman Cancer Institute, University of Utah; Saundra Buys, MD, Huntsman Cancer Institute, University of Utah; Luke Maese, DO, Huntsman Cancer Institute, University of Utah; Kristin Zelley, MSc, CGC, CCGC, Children's Hospital of Philadelphia; Mary-Louise Greer, MBBS, FRANZCR, The Hospital for Sick Children; Samantha Greenberg, MS, MPH, CGC, Huntsman Cancer Institute

- Define the principles of screening and related imaging options.
- Evaluate screening recommendations for hereditary cancer syndromes to determine surveillance guidelines for rare and novel conditions.
- Differentiate standard and novel imaging approaches to make tailored recommendations to patients.

Attendance Verification Code:	
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D07: Weighing the Alternatives: Non-Traditional Approaches to Improve Genetic Counseling Access and Efficiency

1.5 Contact Hours

Julia Wynn, MS, MS, CGC, Columbia University Medical Center; Tara Schmidlen, MS, LGC, Geisinger; Andrew Faucett, MS, LGC, Geisinger; Miranda Hallquist, MSc, LCGC, Geisinger; Sharon Aufox, MS, CGC, Center for Genetic Medicine, Northwestern University

- Apply the CADRe framework to leverage the genetic counseling resource most effectively.
- Evaluate the design, implementation and assessment of alternative delivery models for different aspects of genetic counseling and education.
- Argue the benefits and risks of the use of alternative approaches to genetic counseling.

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Attendance Verification Code:

Plenary Session

10:00 am - 10:50 am

D08: Meeting the Demand for Genetic Counseling Through Artificial Intelligence: Can We Clone Our Skill Set?

0.75 Contact Hour

Kaylene Ready, MS, CGC, GeneMatters; Cathy Wicklund, MS, CGC, Northwestern University; Tara Schmidlen, MS, LGC, Geisinger; Shivani Nazareth, MS, CGC, Clear Genetics

- Define the use cases for artificial intelligence (Al) in healthcare, and the relevance to the field of genetic counseling.
- Provide a balanced perspective on creative ways to achieve scale and promote access in genetics.
- Demonstrate how chatbots, as an example of AI, can enable scale in genetic counseling.
- Highlight the overall trends in Al and debate their merits.

Attendance Verification Code	:

Session Speakers + Objectives continued

Late-Breaking Plenary

10:50 am - 11:50 am

D09: Emerging Therapies for Adult-Onset Neurologic Diseases: Possibilities, Pitfalls and Patient Impact

1.0 Contact Hour

Sonia Vallabh, JD, PhD, Broad Institute

- Describe two genetically targeted therapeutic approaches in clinical trials to treat adult-onset neurologic diseases.
- Summarize which hereditary adult-onset neurologic diseases currently have ongoing clinical trials of genetically targeted therapies.
- Describe the roles that motivated at-risk individuals play in all stages of drug development.
- Discuss forms of positive action available to at-risk individuals independent of drug development, including IVF-PGD.
- Appreciate the perspective of an individual who is gene positive for an adult-onset hereditary neurologic disease.

Attendance Verification Code:	
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Post-Conference Symposia

2:00 pm - 5:30 pm

D15: Genetic Counselor Fingerprints on the Business Side: Clinical Product Strategy, Development and Lifecycle Skills Workshop

3.0 Contact Hours

Carrie Haverty, MS, LGC, Myriad Women's Health; Shivani Nazareth, MS, CGC, Clear Genetics; Kaylene Ready, MS, CGC, Gene Matters; Sarah Witherington, MS, LCGC, Quest Diagnostics

- Describe specific roles for genetic counselors in clinical product development.
- Create a strategy for an imaginary genetic testing or services product.
- Formulate an elevator pitch for an imaginary genetic testing or genetic services product.

D16: Genetics Beyond the Binary: How to Incorporate Gender Diversity Into the Concepts of Genetics

3.0 Contact Hours

Kaitlyn Brown, MS, CGC, Children's Hospital at Montefiore; Candice Metzler, MSW, CSW, Utah Pride Center, University of Utah; Clair Rock, Logic Dept.

- Summarize the importance of using gender-inclusive language in the practice of genetic counseling.
- Apply inclusive language that remains scientifically accurate while describing genetic information.
- Evaluate resources for inclusivity of patients who identify as intersex, gender non-binary/non-conforming (GNB/GNC).

Attendance Verification Code:	

D17: Late-Breaking Cancer Topics

3.0 Contact Hours

Sayoni Lahiri, MS, CGC, UT Southwestern Medical Center; Sara Pirzadeh-Miller, MS, CGC, UT Southwestern Medical Center; Veronica Greve, MS, CGC, HudsonAlpha Institute for Biotechnology; Carrie Blout, MS, CGC, Brigham and Women's Hospital; Miranda Hallquist, MSc, LCGC, Geisinger; Barry Tong, MS, CGC, UCSF Cancer Genetics and Prevention Program; Dena Goldberg Linder, MS, LCGC, UCSF Cancer Genetics and Prevention Program; Wendy Kohlmann, MS, CGC, Huntsman Cancer Institute; Sheryl Walker, MS, CGC, Medical City Dallas; Jacqueline Mersch, MS, CGC, Moncrief Cancer Institute, UT Southwestern; Amber Aelts, MS, LGC, The Ohio State University

Session 1: Implementation of Population Genetic Screening Programs Across Populations and Institutions

- Identify challenges with implementation and automation of screening processes for population-based screening programs.
- Identify methods for improving access to genetics services in underserved populations.
- Describe various methods for patient recruitment, including online recruitment, for population-level genetic screening.

Session 2: Lie, Cheat & Steal: The Growing Epidemic of Genetic Testing Fraud in America

- Identify appropriate channels for reporting fraudulent health insurance activity.
- Improve strategy for evaluating genetic testing laboratories.





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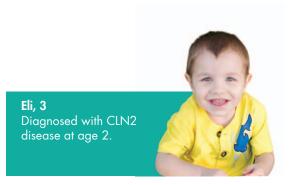
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Platform Presentations

THURSDAY, NOVEMBER 7 10:20 am - 11:35 am 1.25 CONTACT HOURS					
	CO4 Access and	C05 Cancer	C06 Cardiovascular	C07 Conversations	C08 Prenatal
	Service Delivery	Grand Ballroom	Room 255BC	Around Diversity	Room 155BC
	Room 255EF Explore novel approaches to improve access to genetic counseling. Examine tools and modalities to improve efficiency in clinical genetic counseling.	 Summarize various research studies related to hereditary cancer genetics. Examine different components of the cancer genetic counseling process. 	 Evaluate the application of molecular genetic technologies in cardiovascular genetic counseling. Examine the patient experience in cardiovascular genetic counseling. 	Room 155EF Examine methods for facilitating genetic counselor diversity. Illustrate the value of diversity in genetic counselor training programs.	Examine available resources and tools that can be used in prenatal genetic counseling. Illustrate the role of key stakeholders in the prenatal experience.
10:20 am – 10:35 am	Impact of Service Delivery Model on Patient Perceptions and Utility of Genetic Counseling for Hereditary Breast and Ovarian Cancer: An Exploration of Group Genetic Counseling Alyssa Gates	Gaps in Genetic Testing Results Interpretation: Lessons Learned From Five Years of Education Efforts Emily Edelman	How Does Age at Diagnosis Impact Physical Activity and Health Related Quality of Life for Children Diagnosed With an Inherited Arrhythmia or Cardiomyopathy? Susan Christian	Assessing the Impact of Diversity and Inclusion Among Individuals in Genetic Counseling Student Cohorts Gnyapti Majmudar	"It is in God's Hands": An Investigation of Genetic Counselors' Responses to Prenatal Patient Religious/ Spiritual Statements Alina Sitaula
10:35 am – 10:50 am	Improving Genetic Counselor Efficiency While Maintaining High Patient Satisfaction Kiley Johnson	How Do Adolescents and Young Adults Experience Genetic Testing for Li- Fraumeni Syndrome? Rowan Forbes Shepherd	Clinical Evidence of Long QT Syndrome in Patients With KCNQ1 Variants Robyn Hylind	Genetic Counseling Training Program Admissions Teams and Racial and Ethnic Diversity: Surveying the Gatekeepers Ana Sarmiento	Fragile X Carrier Screening Accompanied by Genetic Consultation Has Clinical Utility in Populations Beyond Those Recommended by Guidelines Katie Johansen Taber
10:50 am – 11:05 am	Re-Contacting Women With Previous Negative BRCA1 & BRCA2 Genetic Testing for Updated Testing Using a Multi- Gene Panel Ryan Mooney	Returning Polygenic Risk Scores to Participants in a Pragmatic Clinical Trial of Risk-Based Population Screening for Breast Cancer Galen Joseph	Molecular Autopsy: Experience in a Multidisciplinary Inherited Arrhythmia Clinic Emma Leach	Increasing Diversity in the Genetic Counseling Profession: A Pilot Study on Development of Effective Recruitment Tools for Black Undergraduate Students Erica Price	Exploring the Potential Yield of Prenatal Testing by Evaluating a Postnatal Population With Structural Abnormalities Peyton Busby
11:05 am — 11:20 am	No Thank You: Referrals Resulting in a Declined Appointment Over a Five Year Period Heather Rocha	Downstream Revenue Generated by a Cancer Genetic Counselor Caitlin Mauer	The Cardiac Genome Clinic: A Model for Integrating Whole Genome Sequencing Into Clinical Cardiology Eriskay Liston		Deciding Whether to Take Antidepressants During Pregnancy: A Grounded Theory Catriona Hippman
11:20 am – 11:35 am	Breast Cancer Genetic Testing Station: A Model for Increasing Access for Large Patient Volume Desiree Stanley	Pathogenic Variants in Cancer and Hematologic Disease Susceptibility Genes Identified in Blood and Marrow Transplant Patients With Acute Myeloid Leukemia and Myelodysplastic Syndrome and Their HLA-Matched Unrelated Donors Lara Sucheston-Campbell	Evaluation of Clinical Practices and Needs About Variants of Uncertain Significance Results in Inherited Cardiac Arrhythmia and Inherited Cardiomyopathy Genes Reka Muller	Moderated Discussion	The First Prenatal Visit: An Opportunity for Collaboration Between Genetic Counselors and Obstetric Healthcare Providers to Support Patients' Prenatal Genetic Testing Decisions Ruth Farrell

FRIDAY NOVEMBER 8	3 12:15 pm – 1:30 pm	1 1 25 CONTACT HOURS			
	D10 Education Room 255EF • Summarize appraches in genetic counseling education. • Examine the patient experience in cardiovascular genetic counseling.	D11 Ethical and Psychosocial Research Room 255BC Illustrate ethical implications across the genetic counseling process. Evauate psychological and social issues for genetic counseling patients.	Neuromuscular/ Psychiatric Room 155EF • Explore various aspects of patient experiences with neurological disorder diagnoses and testing. • Summarize students' perspectives of psychiatric illness. Unrestricted educational support provided by:	D13 Patient Utilization of Genetic Test Results Room 155BC • Identify responses to genetic testing and results disclosure. • Explore the impact of cascade testing.	D14 Innovations in Somatic Tumor Testing Grand Ballroom • Explore the utility of somatic genetic testing methodologies in clinical practice. • State the impact of somatic genetic test results and implications for patients and families.
12:15 pm — 12:30 pm	Application of the Reciprocal Engagement Model of Supervision (REM-S): What Is Happening in Genetic Counseling Student Supervision Meetings? Carrie Atzinger	Examining the Relationship Between Parenting Stress and Anxiety in Children With 22q11.2 Deletion Syndrome Jacquelynn Berton	Genetic Counseling Students' Attitudes Towards Psychiatric Illness Rebecca Haegedorn	Ready or Not: Hypothetical Reactions to Receiving Unsolicited Results of Family Member's <i>BRCA1/2</i> Gene Testing <i>Amber Aeilts</i>	Paired Tumor-Germline Sequencing in Adolescents: Motivators, Attitudes and Knowledge Michelle F. Jacobs
12:30 pm – 12:45 pm	Genetic Counselors With Advanced Skills: A New Career Trajectory Framework Bonnie Baty	The Role of Ethnicity in Views and Attitudes Toward Precision Medicine Research: A Systematic Review of Qualitative and Quantitative Studies Elena Fisher	Rates and Causes of Mortality in Pediatric Patients With Known or Presumed Genetic Epilepsy Colleen Kennedy	Assessing Readiness for Hereditary Cancer Cascade Genetic Testing Erica Bednar	Evaluation of a Referral Triage Protocol Based on Tumor Genomic Profiling Results and Personal/ Family History: A Pilot Study at a Community Cancer Center Kate Partynski
12:45 pm — 1:00 pm	Entrustment Decisions in Genetic Counseling Training: Exploring Supervisor Perspectives Kelsey N. Lenhart	Investigation of Media Type of Educational Resources on Patient Knowledge and the Role of Health Literacy Jacqueline Neminski	Mosaic Sequence and Copy Number Variants in a Large Clinical Genetic Testing Cohort Daniel Pineda-Alvarez	The Effect of a Video Intervention on Research Participant Understanding and Perceived Usefulness of Negative Genetic Test Results Austin Bland	Baylor College of Medicine Advancing Sequencing in Childhood Cancer Care (BASIC3): A Synopsis of Germline and Tumor Exome Sequencing Results in 283 Pediatric Oncology Patients Sarah Scollon
1:00 pm — 1:15 pm	Educational Session to Increase Awareness, Knowledge, Attitudes and Behaviors Towards Family Health History and Referral to Genetic Services in Hispanic Community Health Workers Laura Moreno	Decisional Conflict Among Adolescents and Parents Making Decisions About Genomic Results Preethi Raghuram Pillai	Genetic Test Disclosure and Genetic Counseling in Parkinson's Disease: Outcomes From the Widespread Recruitment Initiative (WRI) Jenny Verbrugge	Uptake of Post-Result Disclosure Follow-Up and Cascade Genetic Testing Chatbots Among Patients Receiving Clinically Actionable Exome Sequencing Results Tara Schmidlen	Germline BRCA Alterations Detected by Circulating Tumor DNA Testing Among Patients With Advanced Cancer Krysten Shipley
1:15 pm — 1:30 pm	The Results Are In: Examining Whole Exome Sequencing Follow-Up Care for Pediatric Patients Katherine Ozelius	The Role of Genetic Counselors in the Recognition and Prevention of Sexual Abuse in Populations With Intellectual Disability Rebecca Sheedy	Current Attitudes and Practices Regarding Discussion of Disease- Modulating Treatment for Spinal Muscular Atrophy Among Prenatal Genetic Counselors Bethany Zettler	Cascade Testing Uptake in First-Degree Relatives After Receiving a Cancer or Cardiovascular Result From a Population Genomic Screening Program Amy Sturm	Germline Testing Recommendations for Patients With BRCA1/2 Mutations on Somatic Tumor Testing at Stanford Katherine Vlessis

Posters With Authors

Objectives:

- Recognize varied approaches to building an evidence base to support best practices in genetic counseling.
- Identify opportunities for the genetic counseling community to expand the reach of genetic/genomic-based care.
- Evaluate the varied settings in which genetic counseling expertise is utilized.

GROUP A POSTERS

Tuesday, November 5 5:45 pm - 7:00 pm CONTACT HOURS: 1.25

GROUP B POSTERS

Wednesday, November 6 6:15 pm - 7:30 pm CONTACT HOURS: 1.25

GROUP C POSTERS

Thursday, November 7 1:20 pm – 2:35 pm CONTACT HOURS: 1.25

ACCESS AND SERVICE DELIVERY

- A 1 The Participant Perspective of a Novel Whole Genome Sequencing Delivery Model for Ostensibly Healthy Individuals Kaitlyn Givens
- A 4 Integrating Genetic Counseling Services Into a Multi-Disciplinary Breast Clinic

Amanda Schott

- A 7 Cascade Screening With a Large, Multi-Gene Panel Test Identifies High Rate of Incidental, Clinically Actionable Findings Lauren Ryan
- A 10 The Effect of an Educational Video on Knowledge and Intent in an OB/GYN Population
 Brighton Goodhue
- A 13 Impact of Reminder Calls on Questionnaire Completion Rates

 Elise Watson
- A 16 Use of BRCA-Related Familial Risk Stratification Tools Among Physician Assistants Jason Murphy
- A 19 Webinar Stimulates Genetic Counseling Student Knowledge and Interest in Automation as a New Service Delivery Model Sonja Higgins
- A 22 Uptake of Pre- and Post-Test Genetic Counseling for Individuals Undergoing Consumer-Directed Genetic Testing Scott Weissman
- A 25 High Satisfaction With Genetic Counseling Using Telephone-Based Delivery Method for Return of Results: A Pilot Lily Servais
- A 28 Bridging the Genetic Care Gap Between the Deaf and Hearing: A Study of Genetic Service Accessibility for the Deaf Community Mackenzie Mosera
- A 31 Effective Communication of Genetic Test Results to Non-Specialist Clinicians and Patients Gabriel Recchia

A – 34 Identifying Genetic Counseling Candidates by Utilizing Genetic Counseling Assistants and High Risk Navigators in a High Risk Breast Program

Jenna Harris

- A 37 Adolescents' Attitudes Towards Direct-to-Consumer Genetic Testing
 - J. Fitzpatrick Doyle
- A 40 Assessing the Utility of a Machine Learning Algorithm in the Provision of Genetics-Based Care
 Lauren Seemann

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- A 43 Uptake of Genetic Testing in Patients With Early-Onset Colorectal Cancer in Traditional Cancer Genetics Versus Multidisciplinary Clinical Settings Dianne Samad
- A 46 Investigating the Potential Impact of Gene Therapy on Identity in Individuals With Hemophilia
 Mercedes Zoeteman

CANCER

- A 49 Possibly Mosaic TP53 Mutation: Circulating Tumor Cells or Li-Fraumeni Syndrome?
 Ryan Noss
- A 52 Somatic Tumor Testing Identifies Germline BARD1 Mutation in a Patient With Ewing Sarcoma: Implications for Familial Testing and Genetic Counseling Rosemarie E. Venier
- A 55 Adult Presentations of a Classic Pediatric Tumor Predisposition Syndrome: Hereditary Retinoblastoma
 Christine Steele
- A 58 Clinical and Familial Characteristics of Children and Young Adults With Thyroid Cancer: A Case Series
 Regina Nuccio

- A 61 Possible CDKN2A Founder Mutation Associated With Increased Risk for Pancreatic Cancer in Hispanic Population Karlena Lara-Otero
- A 64 Incidental MITF, p.E318K Pathogenic Variant in Three Independent Cases Undergoing Hereditary Cancer Risk Assessment
 Jessica Ordonez
- A 67 The Identification and Workup of Two *BRCA2* De Novo Cases

 Rania Sheikh
- A 70 Alternative Genetic Counseling Model for Advanced Prostate Cancer Patients: Impact on Clinical Management Kelsey Breen
- A 73 Improving Access to Genetic Counseling for Women With Epithelial Ovarian Cancer in Nova Scotia, Canada Ashley Warias
- A 76 Women's Responses and Understanding of Polygenic Breast Cancer Risk Information Tatiane Yanes
- A 79 The Effect of Select Modifiable Lifestyle Factors on Breast Cancer Risk in *BRCA1* and *BRCA2* Mutation Carriers: A Systematic Review of the Evidence

 Laura Braunstein
- A 82 Utilization of Genetic Testing When Assessing Risk for BRCA1and BRCA2- Associated Hereditary Breast and Ovarian Cancer: Education and Importance of Referral to Genetics Erin Barone
- A 85 Genetics Clinic Re-Contact of Patients With Unexplained Defective Mismatch Repair Julia Cooper
- A 88 Cascade Genetic Testing at an Interdisciplinary Program for Families With CDH1 Grace-Ann Fasaye
- A 91 Cascade Genetic Testing: Feedback From a Michigan-Based Patient Focus Group
 Natalie Waligorski
- A 94 RNA Research Program Continues to be a Valuable Tool in Variant Reclassification
 Susana San Roman
- A 97 Clinical Utility of Hereditary Cancer Panel Testing: Impact of PALB2, ATM, CHEK2, NBN, BRIP1, RAD51C and RAD51D Results on Patient Management and Adherence to Provider Recommendations
 Katie Johansen Taber
- A 100 Communication Practices of Cancer Genetic Counselors Morgan Danowski
- A 103 Investigating the Use of Electronic Distress Screening Questionnaires for Initiating Genetic Counseling Referrals Kevin Capehart

- A 106 Clinical Experience With MITF in High Volume Cancer Genetics Program Jordan Berg
- A 109 A Study of Germline Mutations and Family History in High Risk Pancreatic Cancer Cohort Frances Oh
- A 112 Outreach Opportunities for the Genetic Counseling Community: Who Is Ordering Predictive Testing of Minors for Adult-Onset Cancer Risk? Kylin Boehler
- A 115 Genetic Counseling in Pediatric Oncology is Associated With Improved Parental Levels of Knowledge and High Satisfaction
- A 118 Prevalence and Characterization of Germline RET Proto-Oncogene Gene Mutations in a Pan-Cancer Cohort Margaret Sheehan
- A 121 The Frequency of Cancer-Related Secondary Findings in a Cohort of Individuals Undergoing Clinical Exome Sequencing Becky Milewski
- A 124 Tumor-Only Genetic Testing as an Indication for Dedicated Germline Testing: An Analysis of Current Practices Amie Blanco
- A 127 Extending the Reach of Cancer Genetic Counseling to the Underserved: Genetic Counselors' Experience With Three Counseling Modes Robin Lee
- A 130 Establishing a Partnership Between Cancer Genetic Counselors and a High-Volume Urology Practice to Increase Access to Genetic Counseling and Testing for Patients With High-Grade Prostate Cancer Erin Borchardt
- A 133 Awareness of Breast Cancer Risk and Screening Guidelines Among Women With Neurofibromatosis Type 1 Kara Anstett
- A 136 Using Prevalence and Mutation Allele Frequency of Germline Variants Identified on the *Ucsf500* Paired Tumor/Germline Test to Guide Clinical Practice When Confronted With a Tumor Only Variant in a Cancer Predisposition Gene
 Amie Blanco

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- A 139 CATSHL Syndrome Consider in the Differential Diagnosis for Marfan Syndrome Without Cardiac or Lens Involvement KT Curry
- A 142 At Least One-Third of Patients With Amphetamine-Related Cardiomyopathy Have Evidence of Familial Disease

 Tia Moscarello

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- A 145 Process and Impact of Disclosing Genetic Research Results to Cardiovascular Biobank Participants
 Adelyn Beil
- A 148 Hypertriglyceridemia Is Common in Patients With Familial HypercholesterolemiaEmily Brown

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- A 151 Call Interrupted Counseling Distracted Patients

 Karina Nall
- A 154 Complexities in Genetic Counseling for Medically Actionable Variants in "Healthy" Individuals: Is It a Secondary Finding, a Primary Diagnosis or Somewhere in Between? Margaret Harr
- A 157 Association of Coping Strategies and Effectiveness With Psychological Well-Being in Parents of Children With Undiagnosed Genetic Conditions Courtney Berrios
- A 160 'Unless You've Been There, You Can't Understand': How Genetic Counselors Can Facilitate Peer-to-Peer Support Utilization Among Cancer Caregivers Angela Wang
- A 163 Discussing History of Mental Illness in a General Genetic Counseling Setting: Patient and Caregiver Interest and Comfort Alena Faulkner
- A 166 Attitudes of Genetic Counselors Regarding Affective Forecasting and Patient Decision-Making
 Stacey Greanias Wallen
- A 169 "For Better or for Worse?" Disclosure of Genetic Information Within Relationships
 Porter Pavalko
- A 172 Understanding the Patient Experience of Individuals With Differences in Sex Development
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- A 175 Patient Coping as an Outcome of Genetic Counseling: Results From a Systematic Literature Review Barbara Biesecker

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- A 178 Experience Is Key: Shadowing Remains an Important Component of Applications for Genetic Counseling Graduate Programs
 Anna Essendrup
- A 184 An Assessment of Genetic Counselors' Knowledge and Attitudes Toward Counseling for Gene Therapy Ashley Wong
- A 187 Creation of a Genetic Counseling Resource to Aid in Delivering Difficult News by Telephone
 Caitlyn May

- A 190 Assessing Risk of Breast Cancer Through Outreach to Latinas With Education and Support (ARBOLES): A Genetics Education Program for Bilingual Community Health Workers Increases Knowledge, Genetic Literacy and Self-Efficacy Charité Ricker
- A 193 Sickle Cell Trait Information on YouTube: A Content Analysis Kelsie McVeety
- A 196 From One Clinical Rotation to Another: A Pilot Study on the Use of Standard Patient Encounters to Foster Transition in Genetic Counseling Training
 Kathleen Swenson
- A 199 Genetic Counseling Student Demographics and How They Have Evolved: An Empirical Investigation Andrea Stoddard

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- A 202 Fostering Equitable Care: Pediatric Genetic Counseling Challenges in Cases of Children in Foster Care Bri Dingmann
- A 205 Impact of Health Literacy and Genetic Knowledge on Patient Empowerment in Individuals With Inherited Retinal Diseases Eleanor Westfall
- A 208 When Family Members Disagree: Implications of Family-Based Enrollment in Genomic Research for Return of Results and Data Sharing Policies
 Carolyn Applegate

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- A 211 Application of Mosaicism Ratio From Cell-Free DNA (cfDNA)
 Screening to Multifetal Gestations
 Jill Bafalko
- A 214 All Testing Platforms Are Not Created Equal the Importance of Considering Maternal Cell Contamination in Products of Conception Analysis
 Carrie Couyoumjian
- A 217 Hyperferritinemia-Cataract Syndrome Resulting From a Novel Missense Variant in the Non-Coding Region of FTL Selina Casalino
- A 220 Success of NIPT Based on Maternal Weight and Gestational Age Sidra Boshes
- A 223 Investigation of TTN Variants in Patients With Skeletal Myopathy and/or Cardiomyopathy Identifies Novel Titinopathies Kelly Rich
- A 226 Patient Experience and Barriers With Family Communication
 After Receiving Genomic Information From a Biobank
 Caitlin O'Brien

- A 229 Predictive Genetic Testing of Children for Adult-Onset Cancer Risk: Testing Indications and Value of the Laboratory Genetic Counselor Elaine Weltmer
- A 232 Utility of Genomic Sequencing in Cases of Early-Onset and Familial Dementia
 Meagan Cochran
- A 235 Gene Panel Based Prediction of Homologous Recombination Deficiency in Adolescent and Young Adult Breast Cancers Tomoko Watanabe
- A 238 Impact of a Molecular vs. Clinical Diagnosis on the Illness Representation of Individuals With Ataxia Arianna Guillard
- A 241 Patient Experience With the Sanford Preemptive Genetic Screening Program: Perspectives From the Pilot Population Brittany Noble
- A 244 Noonan Syndrome Screening by Non-Invasive Prenatal Testing for Single-Gene Disorders
 Pooja Mohan
- A 247 Utilization of Whole Genome Sequencing to Improve Diagnostic Yield in Pediatric Patients With a Suspected Genetic Disorder Justin Leighton
- A 250 Integrating Genomics Research With Clinical Care in the NICU Setting
 Laura Hendon
- A 253 MYH9 Diagnostic Yield: Reported Phenotypic Specificity Highlights Opportunity for Increased Clinician-Laboratory Partnership
 Stefanie N. Dugan
- A 256 SouthSeq: Genome Sequencing in Newborn Nurseries Across the Deep South Kelly East
- A 259 Curating the Human Genome in an Objective and Scalable Process to Ensure Accurate Clinical Interpretation and Reporting Jackie Tahiliani
- A 262 Whole Exome Sequencing Results Broken Down by Ethnicity, Diagnostic Yield and VUS Rates in a Diverse Patient Population: The Experience of One Institution Samantha Augustyn
- A 265 Use of Direct-to-Consumer Genetic Testing by Adult Adoptees

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- A 271 A Case Report of Epsilon Gamma Delta Beta Thalassemia: Implications for Genetic Counseling Kristin Zajo
- A 274 Psychosocial and Ethical Implications of Secondary Findings From Pediatric Tumor Profiling: A Case of One Family Krista Buch
- A 277 Identification of a Founder Variant in the ITGB4 Gene That Results in Epidermolysis Bullosa With Pyloric Atresia Emily Bonnell
- A 280 Utilization of Genetic Services in Pediatric Emergency Medicine Madeline Miller
- A 283 Parental Preferences for Genetic Testing Factors in a Pediatric Neurodevelopmental Disorder Population
 Jessica Clark
- A 286 Parents' Reflections of Their Child's Initial Visit to Metabolic Clinic: A Qualitative Study
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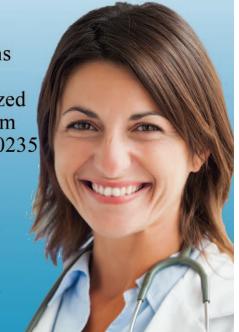
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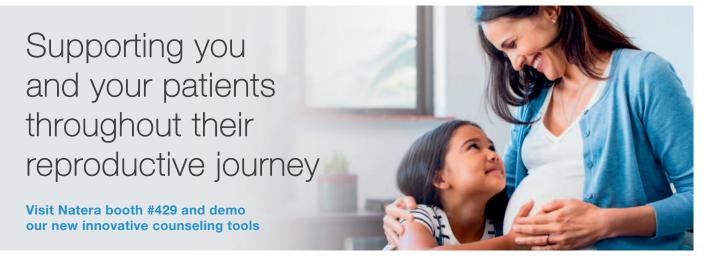
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- **C 192** Sources of Genetics Misconceptions in a Population Sample Beth Lincoln Boyea
- C 195 International Genetics Provider Perspectives on Hosting Genetic Counseling Students for Summer Rotations
 Smita Rao

ETHICAL, LEGAL AND SOCIAL ISSUES

- **C 201** Somatic Testing for Optic Glioma: Incidental Findings and Implications for Minor Patient

 Lauren Palange
- C 204 Secondary Data Usage in Direct-to-Consumer Genetic Testing: To What Extent are Customers Aware and Concerned? Janessa Mladucky
- C 207 Deconstructing Culture Bumps: Interpreters' Views in the Genetic Counseling Setting Marc Rosenbaum

GENETIC/GENOMIC TESTING

- **C 210** Monosomy Seven: Uncovering the Enigma by Molecular Cytogenetics and Molecular Genetic Pathogenesis

 Suneeta Madan-Khetarpal
- C 213 Diagnosing the Undiagnosed: Expanding the Genetic Etiology and Phenotypic Spectrum of Rare Pediatric Conditions Theresa Mihalic Mosher
- C 216 Genotype vs Phenotype: Pathogenic Variant in TSC1 in a Three-Generation Family Without Clinical Evidence of Tuberous Sclerosis Complex Haley Streff
- **C 219** Detection of Unbalanced and Balanced Chromosomal Rearrangements via a Genome Sequencing Test *Erin Thorpe*
- C 222 Utility of Gene Panel Testing in Children With Seizure Onset After Two Years of Age: Results From a European and Middle Eastern Epilepsy Genetic Testing Program Tero-Pekka Alastalo
- C 225 Understanding the Practice of Genetic Result Communication to Extended Family Members by Participants in the Undiagnosed Diseases Network (UDN) Courtney Studwell

- C 228 Which Test is Best? Evaluating the Diagnostic Yield of Sequencing-based Testing Approaches for Patients With Neurodevelopmental Disorders at a Pediatric Institution: A Retrospective Chart Review Nicholas Little
- C 231 Genotype-First Analysis of Whole Exome Sequencing: Diagnostic Yield of Whole Exome Sequencing Trio Testing Including CNV Analysis Jennifer Schleit
- C 237 High Mapping Quality and Coverage in the Homologous PKD1 Gene Results in a High Diagnostic Yield Shea Rauch
- C 240 A Review of Non-Traditional Indications for Non-Disclosure Preimplantation Genetic Testing (PGT) Agnes Machaj
- C 243 Outcome of High Risk for Double Aneuploidy Results From SNP-Based Non-Invasive Prenatal Testing (NIPT) and Incidence in Products of Conception (POC) Testing

 Trudy McKanna
- C 246 Gene Curation in a Clinical Whole Genome Sequencing Context and Its Effect on Variant Reporting Amanda Buchanan
- **C 249** Copy Number Variants (CNVs) in Inherited Retinal Disorders: Results From Genetic Testing of Over 2,700 Patients Lauren Moissiy
- C 252 Lack of Genotype-Phenotype Correlation in Individuals With DMPK CTG Repeat Expansions Seema M. Jamal
- C 255 Next Generation Sequencing With Copy Number Analysis for Primary Immunodeficiencies: Findings From a Cohort of Over 3,900 Unrelated Patients Jessica Connor
- **C 258** Theoretical Diagnostic Yield of a Rapid, Targeted Genetic Panel for Critically III Pediatric Patients and Newborns

 Danuta Stachiw-Hietpas
- C 261 Early Experiences With Whole Genome Sequencing in a State-Funded Research Initiative Whitley Kelley
- C 264 Trio-Based Genetic Testing for Leukodystrophies: High Positive Diagnostic Rate in Both Adults and Children Courtney Downtain Pickersgill

PEDIATRICS

C – 267 De Novo *TFE3* Variants in Two Females With Severe Neurocognitive Delays, Pigmentary Mosaicism Following the Lines of Blaschko and Coarse Facial Features

Posters With Authors continued

- **C 270** Further Evidence of *GABRA4* and *TOP3B* as Autism Susceptibility Genes

 Jacquelyn Riley
- C 273 Cautions of a Case Report: An Update on a Previously Described Case of Digenic Inheritance Leighann Sremba
- C 276 Homozygous GNG3 Pathogenic Variants in Three Siblings With Epileptic Encephalopathy, Infantile Spasms, Global Developmental Delays, Hypotonia and Cortical Visual Impairment Katie Angione
- C 279 Assessment of the Impact of a Positive Family History and Genetic Counseling on Parental Knowledge of Neurofibromatosis Type 1 (NF1) Emily Solem
- C 282 Metabolic Control, Quality of Life and Body Image in Patients With Glycogen Storage Disease Type 1a Alexa Bream
- C 285 Exploring the Intersection of Pediatric Genetic Counseling and the U.S. Foster Care System Talia Flamos
- C 288 Attitudes of Healthcare Professionals Towards the Utilization of Genetics Professionals Following the Diagnosis of Autism Spectrum Disorder Sydney Alexandra Lau
- C 291 Behind the Seizure(TM): Enabling Early Molecular Diagnosis for Children With Epilepsy Hannah White
- C 294 What Should I Order? Genetic Testing Ordering Trends for Autism Spectrum Disorder Catherine Schultz
- C 297 Genetics Referral Practices and Yield of Genetic Testing in a Pediatric Cancer Cohort Kristin Zajo
- C 300 Newborn Screening for Four Lysosomal Storage Disorders: One Center's Experience Over Six Years Meghan Strenk
- C 303 Parents' Perspectives on the Transition From Pediatric to Adult Healthcare in Cornelia de Lange Syndrome
 Marisa Chamness

PRE- AND PERINATAL

- C 306 A Rare Case of Dizygotic Twins With Trisomy 13 and the Importance of Sampling Each Twin With Diagnostic Testing Julia Weston
- C 309 Novel L1CAM VUS Identified via Whole Exome Sequencing in Patient With Two Male Pregnancies Affected With Agenesis of the Corpus Callosum Jessalyn Gerber

- **C 312** Prenatal Presentation of Megalencephaly-Polymicrogyria-Polydactyly-Hydrocephalus (MPPH) Syndrome Catherine Burson
- C 315 Expanded Aneuploidy Analysis Reveals Trisomy Two: Evidence of Rare Aneuploidy via NIPS Provides Opportunity for Focused Care Susan Hancock
- C 318 Recurrent Non-Immune Fetal Hydrops (NIFH) Due to Native American Myopathy (NAM) in an African-American Couple: Expanding the Phenotype of STAC3-Related Congenital Myopathy Laura Hendon
- C 321 A Case of Mixoploidy in the Setting of a Normal Fetus

 Nicole Poulos
- C 324 To Screen or Not to Screen: Perceived Barriers to
 Paternal Expanded Carrier Screening Following a Positive
 Maternal Result
 Katherine Philo
- C 327 Termination for Fetal Anomaly: What Is the Impact of Genetic Counseling on Coping?
 Cayleen Smith
- C 330 Minimizing Results Delivery Time for Couples Undergoing Carrier Screening: A "Tandem-Reflex" Strategy Aishwarya Arjunan
- C 333 "On the Fringe:" Clinical Application of Less Commonly Used
 Ultrasound Markers for Down Syndrome
 Emily Creque
- C 336 A First Look at the Accessibility of Prenatal Genetic Screening Services Among Incarcerated Women in the United States: Perspectives of Correctional Health Professionals Natalie Waligorski
- C 339 An Innovative Non-Invasive Prenatal Testing (NIPT) Assay Offers the Potential for a Low-Cost, Highly-Accurate Aneuploidy Screen in the Global Population Alka Chaubey
- **C 342** Recall of Informed Consent for Prenatal Aneuploidy Screening *Pranali Shingala*
- **C 345** An Exploration of the Current Impressions and Experiences With NIPT Among Genetic Counselors

 Charly Harris
- C 348 Exploring Experiences & Expectations of Prenatal Healthcare and Genetic Counseling/Testing in Immigrants Latinas Georgiann Garza
- C 351 Observed and Modeled Positive Predictive Values Using cfDNA Testing for Fetal Trisomy in a Clinical Laboratory Population Karen White

PROFESSIONAL ISSUES

- C 354 Short-Term, Defined Mentorship Program Between Genetic Counselors and Genetic Counseling Assistants Jade Mukri
- C 357 Knowledge and Opinions of the Genetic Counseling Profession of High School Students From Underrepresented Backgrounds Joanna Urli
- **C 360** Supervision in Genetic Counselor Training: A Systematic Review *Carly Siskind*
- C 363 Impacts of Genesurance Considerations on Genetic Counselors' Practice and Attitudes Emily Krosschell
- C 366 Coping With Compassion Fatigue and Burnout in Genetic Counselors Using the Provider Resilience Mobile Application Lindsey Kelley
- **C 369** Developing a Nationally Benchmarked Resource for Practice Outcome Measurement

 Jessica M. Goehringer
- C 372 Forging a New Path: Emerging Roles for Genetic Counselors in the Insurance Industry Abigail Sassaman

PSYCHIATRY/NEUROLOGY

- C 375 PIGA Related Disorder as a Range of Phenotypes Rather Than Two Distinct Subtypes Shelby Cash
- C 378 Novel SCN2A Missense Variant in Family With Benign Familial Neonatal Infantile Seizures Successfully Managed With Sodium Channel Blockers Randall Beadling

- C 381 Comparison of Symptom Profiles in Patients With Inherited Myotonic Disorders
 Alayne Meyer
- C 384 Psychiatric Genetic Counseling: Impact on Psychotropic Medication Adherence in People With Serious Mental Illness Emily Morris

PUBLIC HEALTH

- **C 387** Evaluating the Impact of Public Health Efforts to Promote Guideline-Based Insurance Coverage of HBOC and Lynch Syndrome Genetic Testing *Mallory Wagner*
- C 390 Are Individuals Pursuing Health Whole Genome Screening Really Healthy? Lindsay Meyers

RESEARCH ISSUES

- C 393 Positive Attitudes and Therapeutic Misconception Around Clinical Trials in the Huntington's Disease Community Kristina Cotter
- C 396 Establishing a Protocol for Returning Incidental Genetic Research Findings to Former Study Participants Ryan Mooney
- C 399 Content Analysis of Research Articles Published in the Journal of Genetic Counseling: A Multi-Year Perspective Alexandra Wallgren

UTILIZATION MANAGEMENT

C – 402 Understanding Dermatologists' Use, Self-Reported Knowledge and Attitudes Towards Genetic Testing Emma Perez



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EDUCATIONAL SUPPORT



Learning Lounge Presentations

Learning Loungue Presentations are 15-minute presentations given by select vendors and speakers in the Learning Lounge located in the NSGC Central (Booth #415) of the Exhibitor Suite. These presentations are a great way to learn more about a certain topic. Make the most of your time in the Exhibitor Suite by attending one of the following presentations:

Tuesday, November 5

Sponsored by: Rhythm

5:15 pm - 5:30 pm

Best Poster Abstracts – Lightning Round

Various Speakers

Join the nominees for this year's Best Poster Award as they present their work in the lightning round! Each nominee will have 60 seconds to describe their work, and explain why you should visit them during their poster session!

5:45 pm - 6:05 pm

Not All Obesity Is the Same! Introduction to Rare Genetic Disorders of Obesity

Heidi Shea, MD

An introduction to rare genetic disorders of obesity as a subset within the disease of obesity and the urgency to appropriately identify the underlying causes of obesity.

6:20 pm - 6:35 pm

Genetic Counseling Trainee Participation in an Inter-Professional, Case-Based Clinical Genetics Curriculum for Medical Students: An Experience in Peer-to-Peer Learning

Kathleen Berentsen Swenson, MS, MPH, CGC

There are many ways to raise awareness of the field through interprofessional education in genetic counseling training programs and post medical education to residents and fellows. The objective of our session is to share more on our experience using a case-based clinical genetics curriculum that can be applied in a variety of settings.

6:50 pm - 7:05 pm

We Teach but Patients Teach Better: Building a National Patient-Teacher Registry

Jacob Athoe, MS Candidate, Genetic Counseling

Although the role of genetics in medicine is steadily increasing, awareness about rare diseases, especially biochemical or metabolic diseases remains poor. Teaching about the inborn errors of metabolism is inadequate in medical school and the vast majority of postgraduate medical training programs. This compromises patient care, as patients go for years without a diagnosis, resulting in lost opportunities for counseling and missed access to an increasing number of available treatments.

We will present the concept of a National Patient-Teacher Registry (NPTR), an initiative that utilizes the power of storytelling, and brings patients — live or recorded — into the educational realm for medical students, practicing medical and genetic health professionals, and their trainees.

7:20 pm - 7:35 pm

A Beginner's Guide to Artificial Intelligence

Elizabeth Kearney, MS, LCGC, MBA

Robots are taking over genetics! Or are they? Separate fact from fiction with a basic overview of AI for genetic counselors. Learn how technology is used in genetic testing and how technology may influence genetic counseling practice in the not-to-distant future.



Wednesday, November 6

Sponsored by:



6:00 pm - 6:15 pm

Implications of Early Diagnosis of Genetic Disease Through Carrier Testing and Newborn Screening

Karen Grinzaid, MS, LCGC, CCRC, Emry University School of Medicine

Discuss the impact that early diagnosis of genetic diseases has had on the health of patients with lysosomal storage diseases, and updates on carrier testing and newborn screening.

6:30 pm - 6:45 pm

Taking Care of Ourselves so We Can Serve Others

Colleen Caleshu, MS, LCGC

Genetic counselors spend much of their time oriented towards the needs of others. Yet we cannot serve others well if we are not taking care of ourselves. We need a professional culture that prioritizes and values selfcare. We'll talk through self-care strategies and evidence that supports their efficacy.

7:00 pm - 7:15 pm

To Post or Not to Post: Establishing a Professional Social Media Presence

Rebecca L. McClellan, MGC, CGC

The age-old question in our modern world. Disclosure has always been a challenge in patient-provider relationships, but in today's world patient's have ever-increasing access to our online personal identities. Many institutional polices outline privacy, legal and ethical considerations, but also allow their providers freedom to act responsibly. But how is the question.

Thursday, November 7

Sponsored by:



12:00 pm - 12:15 pm

NIH All of US Research Program Genetic Counseling Resource (GCR)

Brad Ozenberger, PhD

Learn about the All of Us GCR powered by Color, future delivery of genomic results and integration into the GC community. Leadership from All of Us, Color and the GCR Advisory Board will be there to answer your questions.

12:30 pm - 12:45 pm

The First Combined Carrier Screen and Single Gene NIPT That Identifies High-Risk Pregnancies

Sara Riordan, MS, LCGC

ACOG recommends all pregnant women be offered carrier screening for cystic fibrosis, spinal muscular atrophy and hemoglobinopathies. UNITYTM identifies carriers and reflexes to single gene NIPT (sgNIPT), allowing for early identification of high-risk pregnancies. Utilizing molecular counting technology, UNITYTM is the only sgNIPT that does not require paternal DNA.

1:00 pm - 1:15 pm

Hanging out on Your Own Shingle: Genetic Counseling Consulting

Linda Robinson, MS, CGC; Debra Collins, MS, CGC

Have you ever thought about consulting, whether as a full-time job or to make extra money on the side? If you have been asked to be on an advisory board or paid to give a lecture, you are a consultant. We will give you an introduction to the world of consulting. Examples and practical considerations such as contracts, resources, money, taxes, etc. will be covered.

1:30 pm - 1:45 pm

How to Perform a Single-Gene NIPT Without the Father's DNA

Brian Landry, PhD

UNITY[™] conducts single-gene NIPTs for cystic fibrosis, spinal muscular atrophy, and hemoglobinopathies without requiring the father's DNA. Screening of these recessively inherited disorders in the fetus from cell-free DNA is a complex problem. This talk explains the novel cell-free DNA counting technology and bioinformatic analysis that powers the UNITY[™] screen.

2:00 pm - 2:15 pm

Tools for Us by Us: Genetic Counselors Informing the Development of Technology for Our Profession

Jill Davies, MS, CCGC

Learn how genetic counselors can (and do!) guide and lead the development of technology solutions aimed at increasing access to our services and improving efficiency in the delivery of genomic medicine.

NSGC Awards

Fellowships and Special Project Awards

JANE ENGELBERG MEMORIAL FELLOWSHIP AWARD (JEMF)

Katherine Helbig, MS, LCGC

AUDREY HEIMLER SPECIAL PROJECT AWARD (AHSPA)

Jessica Hartley, MS, CGC Angela Krutish, MSc, MSc

NSGC Leadership Awards

NATALIE WEISSBERGER PAUL NATIONAL ACHIEVEMENT AWARD

Vickie Venne, MS, LCGC

NEW LEADER AWARD

Katelynn Sagaser, MS, CGC

OUTSTANDING VOLUNTEER AWARD

Melanie Hardy, MS, MS, LCGC

CULTURAL ADVOCACY AWARD

Charité Ricker, MS, LCGC

STRATEGIC LEADER AWARD

Tara Schmidlen, MS, LGC

DIVERSITY AND INCLUSION LEADER AWARD

Gayun Chan-Smutko, MS, CGC

Best Abstract Awards

BEST FULL MEMBER ABSTRACT AWARD

Sienna Aguilar, MS, LCGC

BETH FINE KAPLAN STUDENT ABSTRACT AWARD

Franceska Hinkamp, MS

Scholarship and Journal Awards

JOURNAL OF GENETIC COUNSELING BEST PAPER TRAINEE ONLY CATEGORY

Development and Validation of the Genetic Counseling Self-Efficacy Scale

Sarah Caldwell, University of Cincinnati/Cincinnati Children's Hospital Medical Center

The Impact of Cardiovascular Genetic Counseling on Patient Empowerment

Hannah E. Ison, Indiana University School of Medicine

Genetic Counselors' and Genetic Counseling Students' Implicit and Explicit Attitudes Toward Homosexuality

Megan Nathan, Stanford University

Evolving Decisions: Perspectives of Active and Athletic Individuals With Inherited Heart Disease Who Exercise Against Recommendations

Trishna Subas, Stanford University

STUDENT ANNUAL CONFERENCE SCHOLARSHIP

Joseph Liu

Hebbah Sayed-Ahmad

Award Schedule

Make sure you are in the Grand Ballroom during the following times to see the award presentations:

NATALIE WEISSBERGER PAUL NATIONAL ACHIEVEMENT AWARD

Tuesday, November 5 | 3:45 pm

NEW LEADER AWARD

Wednesday, November 6 | 8:00 am

DIVERSITY AND INCLUSION LEADER AWARD

Wednesday, November 6 | 4:15 pm

AUDREY HEIMLER SPECIAL PROJECTS AWARD

Wednesday, November 6 | 5:20 pm

OUTSTANDING VOLUNTEER AWARD

Thursday, November 7 | 8:00 am

CULTURAL ADVOCACY LEADER AWARD

Thursday, November 7 | 5:00 pm

BEST FULL MEMBER ABSTRACT AWARD

Thursday, November 7 | 5:35 pm

BETH FINE KAPLAN ABSTRACT AWARD

Thursday, November 7 | 5:50 pm

JANE ENGELBERG MEMORIAL FELLOWSHIP AWARD

Thursday, November 7 | 6:05 pm

STRATEGIC LEADER AWARD

Friday, November 8 | 10:00 am

Networking Activities + Meetings

Welcome to the Annual Conference First-Time Attendee Orientation

TUESDAY, NOVEMBER 5

1:30 pm - 2:30 pm

Room 251

Are you a first-time Annual Conference attendee? Make your way to this event to network with other new attendees and learn about the Annual Conference.

Welcome Reception

TUESDAY, NOVEMBER 5

5:00 pm - 8:00 pm

Exhibit Halls A-B, Level 1

Make new contacts and greet your friends as you preview the vendors and their services in the Exhibitor Suite. Join your colleagues for this special kickoff to the Annual Conference. Light hors d'oeuvres and a cash bar will be available.

Sponsored by:



Tour Myriad Genetic Laboratories

WEDNESDAY, NOVEMBER 6

8:00 pm - 8:45 pm

8:50 pm - 9:35 pm

Shuttles to Myriad will depart from the South Foyer of Salt Palace Convention Center on the First Level near Exhibit Hall E.

Ever wonder what happens to a patient's sample once it arrives at Myriad Genetic Laboratories in Salt Lake City? Join Myriad for a personal tour of their labs to learn more about their commitment to precision medicine and genetic testing.

You will be guided by team members who collaborate daily with world-class scientists. The tour will provide a general introduction to Myriad's mission, history and research. Tours will be approximately 45 minutes long.

Register at https://myriadlabtournsqc.rsvpify.com

RSVP is required for tour access. Only confirmed guests will be allowed in.



Mindful Yoga

THURSDAY, NOVEMBER 7

7:00 am - 8:00 am

Marriott Hotel, Deer Valley Room

Balance your mind and body before conference sessions begin! Join Progenity for a yoga session at the Marriott headquarters hotel on Thursday morning. Pre-registration is required; to register, visit booth #729 on Tuesday or Wednesday.



NSGC State of the Society Address

THURSDAY, NOVEMBER 7

8:00 am - 9:15 am

Grand Ballroom

Join NSGC President Amy Sturm, MS, CGC, LGC, as she shares NSGC activities and accomplishments over the past year, reviews NSGC's 2019 advocacy efforts and provides an update on NSGC's strategic initiatives.

Incoming Presidential Address

THURSDAY, NOVEMBER 7

9:15 am - 9:45 am

Grand Ballroom

Welcome NSGC President-Elect Gillian Hooker as she introduces herself to NSGC members and outlines her vision for NSGC and the genetic counseling profession in 2020.

2019 Code Talker Award Ceremony

THURSDAY, NOVEMBER 7

7:00 pm - 9:00 pm

Room 251

Join us for an evening of food, drinks, and amazing stories at the 2019 Code Talker Award Ceremony, honoring genetic counselors nominated by the families they serve

Registration is required, check at the registration desk for availability.

Presented by:





Unwind at Keys on Main

THURSDAY, NOVEMBER 7

7:00 pm - 10:00 pm

Keys on Main, 242 South Main St.

Hosted by ARUP Laboratories, this official event of the NSGC Annual Conference features an open bar, unique Utah food offerings, and the best all-request dueling piano show in the state. Bring your favorite song selections and be ready to party!

Sponsored by: AR



Headshot Lounge

During Exhibitor Suite Hours

Exhibit Halls A-B, Level 1

Take your career to the next level with a complimentary professional headshot, sponsored by Myriad Women's Health. When the Exhibitor Suite is open, visit booth #711 to take advantage of this opportunity to update your LinkedIn profile picture.

Sponsored by:



Annual Conference Program Committee

NSGC EXPRESSES ITS GRATITUDE TO THESE VOLUNTEERS FOR THEIR HARD WORK AND DEDICATION:

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Susan Christian, MSc, PhD, CGC

Victoria Wagner, MS, CGC

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Meals + Refreshments

Continental breakfast will be served Wednesday - Friday in the Grand Ballroom Foyer and in the 155, 255 and 355 foyers on Tuesday from 7:00 am - 8:00 am for pre-conference symposia attendees.

Refreshment Breaks

TUESDAY, NOVEMBER 5*

10:00 am - 10:30 am 155 Foyer, 255 Foyer and 355 Foyer

*Pre-conference attendees only

WEDNESDAY, NOVEMBER 6

9:30 am - 10:15 am Exhibit Hall A-B, Level 1 3:45 pm - 4:15 pm Exhibit Hall A-B, Level 1

THURSDAY, NOVEMBER 7

9:45 am - 10:20 am Exhibit Hall A-B, Level 1 4:40 pm - 5:00 pm Grand Ballroom Foyer

FRIDAY, NOVEMBER 8

9:50 am - 10:10 am 155 Foyer, 255 Foyer and 355 Foyer

Wine Down Tasting

TUESDAY, NOVEMBER 5

5:00 pm - 8:00 pm

Booth #423 Ambry Genetics



Join Us at the Booths Below for a **Special Treat**

The following generous vendors are serving snacks at their booth at the following times. Be sure to stop by while supplies last.

TUESDAY, NOVEMBER 5

5:00 pm - 8:00 pm

Booth #301



INVITAE

Booth #423





WEDNESDAY, NOVEMBER 6

9:30 am - 10:15 am

myriad. Booth #711

11:45 am - 1:30 pm

Booth #307



Booth #116



3:45 pm - 4:15 pm

Booth #301



Booth #116



Booth #729



5:30 pm - 7:30 pm

Booth #423



THURSDAY, NOVEMBER 7

9:45 am - 10:20 am

Booth #301



INVITAE

Booth #423



11:35 am - 3:00 pm

Booth #108



Booth #711

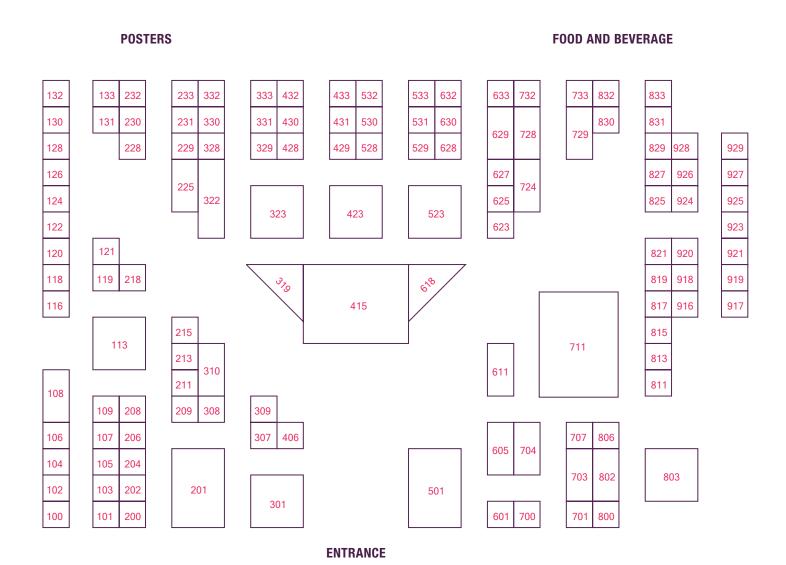




Exhibitor Directory by Company Name

Exhibitor Name	Booth Number	Exhibitor Name	Booth Number
23andMe	831	Johns Hopkins Genomics	231
AbortionClinics.Org, Inc.	200	JScreen at Emory University	601
Acer Therapeutics	109	Kaiser Genetics – Northern California	206
Admera Health	528	Le Bonheur Children's Hospital	119
Agios Pharmaceuticals, Inc.	121	Lettercase: National Center for Prenatal and Postnatal Resources	104
AiLife Diagnostics, Inc.	106	MNG Laboratories	225
Alexion Pharmaceuticals, Inc.	120	Myriad Genetic Laboratories	711
AliveAndKickn	701	Natera	429
Allele Diagnostics	330	National Coordinating Center for the Regional Genetic Networks	103
Ambry Genetics, A Konica Minolta Company	423	National Down Syndrome Congress (NDSC)	925
American Board of Genetic Counseling (ABGC)	130	Nationwide Children's Hospital	924
American Society of Human Genetics	815	NIH Genetic Testing Registry/MedGen/ClinVar	817
Amicus Therapeutics	406	Northside Hospital	433
Ancestry.com Operations, Inc.	101	Norton & Elaine Sarnoff Center for Jewish Genetics	806
ArcherDX, Inc.	632	Norton Genetic Specialists, Part of Norton Healthcare	102
ARUP Laboratories	323	Now I Lay Me Down To Sleep	126
Association for Creatine Deficiencies (ACD)	918	NSGC Central	415
AstraZeneca	802	NSGC Job Board	319
Atlantic Fetal Medicine	916	NTD Eurofins	209
AveXis, Inc.	232	NxGen MDx	830
AveXis, Inc.	233	Parent Project Muscular Dystrophy/Decode Duchenne	923
AXYS	927	Partners Personalized Medicine Laboratory for Molecular Medicine	107
Basser Center for BRCA	204	PerkinElmer	523
Batten Disease Support & Research Association	531	Pfizer Oncology	530
Baylor Genetics	201	Phoenix Children's	921
BillionToOne, Inc. (UNITY screen)	116	Prevention Genetics	605
Biogen	728	Progenity	729
BioMarin Pharmaceutical, Inc.	707	PTC Therapeutics, Inc.	920
Blueprint Genetics Inc.	629	PWN Health	131
Boulder Abortion Clinic, PC	307	Quest Diagnositcs	113
Capital Women's Services	832	RARE Science, Inc. – RARE Bear Sponsor	803
Center for Fetal Diagnosis and Treatment (CHOP)	308	Recordati Rare Diseases	623
Center for Genomic Interpretation	229	Retrophin, Inc.	430
Centogene AG	821	Retrophin Medical Affairs	431
Clear Genetics	133	Rhythm Pharmaceuticals	633
Clinical Genome Resource	827	Roche Diagnostics	202
Clovis Oncology, Inc.	929	Sanford Health	800
Color	630	Sanford Research – CORDS Registry	122
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VVho VVill Be Named Code Talker of the Year?

Honoring genetic counselors who interpret complexity with compassion.

Come celebrate your profession with the emotional stories of what excellent care feels like to patients and find out who will be the 2019 Code Talker. This year's essay book will be available to all. You don't want to miss it!

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Doors open at 6:45pm.



Featuring guest speaker, Amylynne Santiago Volker

and mother of Nic Volker, the first child saved by DNA sequencing.

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customercare@23andme.com

www.23andme.com

Founded in 2006, 23andMe is the only genetic testing company to receive FDA authorization to provide carrier status, genetic health risks, cancer predisposition and pharmacogenetic information directly to consumers.

AbortionClinics.Org

Booth 200

402.292.4164 or 888.684.3599

info@arhc.online

www.abortionclinics.org

Specializing in 2nd and 3rd trimester abortion care. For over 45 years we have been providing abortion care with kindness, courtesy, justice, love and respect.

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clientcare@admerahealth.com

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Admera Health's CLIA-certified, CAP-accredited diagnostic testing laboratory utilizes Next-Generation Sequencing technology to advance personalized medicine. Our expertise includes pharmacogenomics, cardiovascular disease, and oncology. Physicians and patients receive test results to make more informed treatment decisions.

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AiLife Diagnostics, Inc.

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475.230.2596

gretchen.prins@alexion.com

www.alexion.com

Alexion has delivered life-changing therapies to patients suffering from rare diseases and has a highly innovative enzyme replacement therapy for patients with a ultra-rare metabolic disorder, hypophosphatasia (HPP).

AliveAndKickn

Booth 701

201.774.1843

dave@aliveandkickn.org

www.aliveandkickn.org

AliveAndKickn is a patient advocacy organization whose mission is to improve the lives of individuals and families affected by Lynch Syndrome through research, education, and screening. Ask us about The HEROIC Registry.

Allele Diagnostics

Booth 330

844.255.3532

kleiser@allelediagnostics.com

www.allelediagnostics.com

Allele Diagnostics provides high-quality genetic testing and reporting services. Specializing in rapid microarray, we offer a unique test menu focused on neonatal/pediatric patients.

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714.788.2540

zjensen@ambrygen.com

www.ambrygen.com

Ambry Genetics is a leader in clinical diagnostic and software solutions, combining both to offer comprehensive and high-quality genetic testing. As part of the Konica Minolta family, Ambry Genetics is responsibly applying new technologies to the molecular diagnostics market to bring about precision medicine.

American Board of Genetic Counseling

Booth 130

913.222.8661

info@abgc.net

www.abgc.net

The American Board of Genetic Counseling (ABGC) is the credentialing organization for the genetic counseling profession in the US and Canada. ABGC works to protect the public and promotes the growth and development of the profession.

American Society of Human Genetics

Booth 815

301.634.7300

society@ashg.org

www.ashg.org

The American Society of Human Genetics is the primary professional organization for human genetics specialists worldwide. Our mission is to adavnce human genetics in science, health, and society through excellence in research, education and advocacy.

Exhibitor Index continued

Amicus Therapeutics

Booth 406

609.662.3897

msorrentino@amicusrx.com

www.amicusrx.com

Ancestry

Booth 101

801.762.7372

lwagner@ancestry.com

Ancestry, the global leader in family history and consumer genomics, brings together science and self-discovery to help everyone, everywhere discover the story of what led to them

ArcherDX, Inc.

Booth 632

303.357.9001

sales@archerdx.com

www.archerdx.com

ArcherDX addresses the bottlenecks associated with using next-generation sequencing in translational research by offering a robust platform for targeted sequencing applications.

ARUP Laboratories

Booth 323

801.583.2787

info@aruplab.com

www.aruplab.com

ARUP Laboratories offers high quality testing in molecular genetics, cytogenetics, biochemical genetics and maternal serum screening. Accurate testing, timely results, and on-demand consultation with our experts translates to optimal patient outcomes.

Association for Creatine DeficienciesBooth 918

D00til 510

info@creatineinfo.org

www.creatineinfo.org

The Association for Creatine Deficiencies (ACD) is a nonprofit organization dedicated to the three Cerebral Creatine Deficiency Syndromes (CCDS): CTD, AGAT and GAMT. Our mission is to provide patient, family, and public education, to advocate for early diagnoses, and to promote and fund medical research for treatments and cures for CCDS.

AstraZeneca

Booth 802

301.398.0000

alyssa.u@astrazeneca.com

www.astrazeneca-us.com

AstraZeneca is a global, science-led biopharmaceutical company that focuses on the discovery, development and commercialization of prescription medicines, primarily for the treatment of diseases in three main therapy areas — Oncology, Cardiovascular & Metabolic Diseases and Respiratory. The Company also is selectively active in the areas of autoimmunity, neuroscience and infection. AstraZeneca operates in over 100 countries and its innovative medicines are used by millions of patients worldwide. Follow us on Twitter @AstraZenecaUS.

Atlantic Fetal Medicine

Booth 916

910.667.7451

Kathy.Gresham@nhrmc.org

www.nhrmc.org

Atlantic Fetal Medicine is part of the New Hanover Regional Medical Center located in beautiful coastal Wilmington, North Carolina. We seek to add a genetic counselor to our growing team.

AveXis, Inc.

Booth 232 & 233

844.428.3947

info@avexis.com

www.avexis.com

AveXis is the world's leading gene therapy company, reimagining the treatment of genetic diseases. We are focused on developing and delivering transformational gene therapies for patients and families devastated by rare and life-threatening neurological genetic diseases.

AXYS

Booth 927

888.999.9428

info@genetic.org

www.genetic.org

AXYS, the Association for X and Y Variations, is an advocacy, education and support organization for individuals with X and Y chromosome variations and their families. AXYS improves the lives of those impacted by the X and Y chromosome aneuploidies including Klinefelter syndrome (47,XXY), Trisomy X (47,XXX), 47,XYY, 48,XXYY, and related genetic conditions through support, education, research and treatment.

Basser Center for BRCA

Booth 204

215.662.2748

basserinfo@uphs.upenn.edu

www.basser.org

The Basser Center for BRCA is the first comprehensive center for the research, treatment, and prevention of BRCA-related cancers. These hereditary mutations can increase lifetime risk for cancers including breast, ovarian, pancreatic, prostate and melanoma

Batten Disease Support and Research Association

Booth 531

614.768.1159

info@bdsra.org

www.bdsra.org

Our long term vision is a world without Batten disease. Our mission is to support Batten families, fund and Facilitate research, and advocate for action. BDSRA is the largest support organization dedicated to Batten disease in North America

Baylor Genetics

Booth 201

800.411.4363

help@baylorgenetics.com

www.baylorgenetics.com

A pioneer of precision medicine for nearly 40 years, Baylor Genetics now offers a full spectrum of clinically relevant genetic testing, access to world-renowned experts, and the confidence to provide patients with the best care.

BillionToOne Inc.

Booth 116

617.602.0277

shan@billiontoone.com

www.unityscreen.com

BillionToOne is a precision diagnostics company behind UNITY test, the first and only carrier screen with reflex single-gene NIPT for CF, SMA and hemoglobinopathies.

Biogen

Booth 728

781.464.2000

www.biogen.com

At Biogen, our mission is clear: we are pioneers in neuroscience. Biogen discovers, develops and delivers worldwide innovative therapies for people living with serious neurological and neurodegenerative diseases as well as related therapeutic adjacencies.

BioMarin Pharmaceutical Inc.

Booth 707

415.506.6700

www.biomarin.com

BioMarin develops innovative biopharmaceuticals. Approved products include therapies for PKU, LEMS, MPS I, MPS VI, MPS IVA, and CLN2 disease. Development programs include investigational therapies for Hemophilia A, Achondroplasia, MPS IIIB, Friedreich's Ataxia.

Blueprint Genetics

Booth 629

650.452.9340

joe.jacher@blueprintgenetics.com

www.blueprintgenetics.com

Blueprint Genetics is one of the fastest growing genetics laboratories globally. We provide world-class genetic testing and clinical interpretation for rare inherited diseases in 14 medical specialties with a customer-base spanning over 40 countries.

Boulder Abortion Clinic, PC

Booth 307

303.447.1361

bac.conf@gmail.com

www.drhern.com

Boulder Abortion Clinic's Dr. Warren Hern provides services to select patients beyond 30 menstrual weeks for fetal anomaly and maternal indications. Assistance with genetic testing and grievance services is available.

Capital Women's Services

Booth 832

202.400.0235

molly@capitalwomensservices.com

www.capitalwomensservices.com

Capital Women's Services is dedicated to providing women with quality reproductive healthcare.

Center for Fetal Diagnosis and Treatment (CHOP)

Booth 308

800.IN UTERO (468.8376)

www.fetalsurgery.chop.edu

Celebrating twenty five years of dedication to advances, excellence and hope, the world's largest prenatal therapy program has welcomed more than 24,000 families from around the world. Team members pioneered the surgical techniques and protocols that today define the field. A leader of the landmark Management of Myelomeningocele Study proving the efficacy of fetal surgery for MMC. Since 2008, CHOP remains the world's first delivery unit dedicated exclusively to delivering pregnancies complicated by birth defects.

Exhibitor Index continued

Center for Genomic Interpretation

Booth 229

801.810.4097

contact@genomicinterpretation.org

www.genomicinterpretation.org

Center for Genomic Interpretation (CGI) is an independent nonprofit with the mission to drive quality in clinical genetics and genomics. Clinicians can compare lab test quality by asking labs for their CGI ELEVATEGENETICS quality scores.

Centogene AG

Booth 821

617.580.2102

customer.support-us@centogene.com

www.centogene.com/

CENTOGENE – Worldwide leader in the field of genetic diagnostics for rare hereditary diseases. Our mutation database (CentoMD®) is the world's largest for and is pivotal to our high-quality diagnostic reporting and comprehensive medical interpretation.

Clinical Genome Resource

Booth 827

clingen@clinicalgenome.org

www.clinicalgenome.org

The Clinical Genome Resource (ClinGen) is an NIH-funded initiative dedicated to identifying genes and variants of clinical relevance for use in precision medicine and research.

Color

Booth 630

650.743.0657

pam@color.com

www.color.com

Color is a health service that helps you understand your genetic risk for common hereditary cancers and hereditary high cholesterol, and use this knowledge to create a personalized healthcare plan.

Connective Tissue Gene Tests

Booth 703

484.244.2900

inquiries@ctgt.net

www.ctgt.net

Connective Tissue Gene Tests (CTGT) specializes in molecular diagnostic testing for inherited genetic disorders. CTGT offers over 1,000 tests and serves hundreds of leading healthcare providers and institutions from the US and around the world.

Cord Blood Registry

Booth 215

415.517.2404

njaffar@cordblood.com

www.cordblood.com

Cord Blood Registry® (CBR®) is the world's largest and most experienced newborn stem cell company. Since 1992, families have entrusted CBR to store more than 875,000 cord blood and cord tissue samples. As part of their commitment to advancing the clinical applications of newborn stem cells, CBR has helped over 500 families use their cord blood samples for current and investigational treatments.

DNA ALLY, Inc.

Booth 532

408.204.6922

karl.gundal@dnaally.com

www.dnaally.com

We're hiring!!! If you have an extra 5 hours per week and want to increase your income, come visit our booth. DNA ALLY is a national telegenetics company providing on demand genetic counseling services.

EGL Genetics

Booth 310

470.378.2200

eglmarketing@egl-eurofins.com

www.egl-eurofins.com

With over 50 years of experience, EGL Genetics is an established leader in genetic diagnostic testing. EGL is one of the few labs in the country to offer molecular genetics, biochemical, and cytogenetics tests under one roof.

FamHis, Inc.

Booth 428

561.631.9171

info@famhis.net

www.famhis.net

FamHis is the developer of FamGenix, an App built for patients to record their family health histories, share with other family members, and ultimately share with a clinician. It identifies patients who meet referral criteria.

FORCE: Facing Our Risk of Cancer Empowered

Booth 919

866.288.7475

sandrac@facingourrisk.org

www.facingourrisk.org

FORCE improves the lives of individuals and families affected by hereditary cancers by providing support, education, advocacy, awareness and research.

Fulgent Genetics

Booth 825

626.350.0537

info@fulgentgenetics.com

www.fulgentgenetics.com

Fulgent Genetics is a clinical genetic testing laboratory offering an extensive and flexible test menu, with a goal to increase the accessibility and affordability of personalized genomic care for both patients and clinicians.

Geisinger Health Science

Booth 829

717.251.4197

bjhicks@geisinger.edu

www.geisinger.org

Geisinger is a physician-led health system comprised of approximately 30,000 employees, including 1,600 physicians, 13 hospital campuses, two research centers, medical school, and a 583,000-member health plan. Geisinger is nationally recognized for innovative practices and quality care.

Gene42 Inc.

Booth 813

888.682.5252

info@gene42.com

www.gene42.com

Gene42 helps clinicians and researchers diagnose more confidently through better patient phenotyping. Our flagship product, PhenoTips®, is used around the world by leading hospitals and institutions for deep phenotyping, pedigree drawing and phenotype-based genomic analysis.

GeneDx

Booth 501

301.519.2100

zebras@genedx.com

www.genedx.com

GeneDx was founded in 2000 to diagnose patients with rare disorders and assist clinicians responsible for treating these patients. GeneDx has cutting-edge diagnostic testing for a majority of inherited genetic disorders.

GeneMatters

Booth 811

612.314.7482

info@gene-matters.com

www.gene-matters.com

GeneMatters provides telehealth genetic counseling, working alongside your internal team or serving all genetic counseling needs. We provide deep expertise, immediate access, cost-effectiveness and easy, flexible integration through our customized platform.

Genome Medical

Booth 208

877.688.0992

info@genomemedical.com

www.genomemedical.com

Telegenomics technology and services company. Comprehensive clinical genetics services. Telehealth consultations and genomic care delivery platform. Help practices integrate reproductive health genetics – patient education/informed consent, selection/ordering of tests, interpretation of/counseling on results.

GenPath Women's Health

Booth 611

800.229.5227

eventsmarketing@bioreference.com

www.genpathdiagnostics.com/womens-health

GenPath Women's Health, division of BioReference Laboratories, an OPKO Health Company, offers a full-service test menu including cytology, pathology, infectious disease, prenatal/maternal risk assessment, pregnancy thrombophilia, carrier testing and more.

Glut1 Deficiency Foundation

Booth 118

859.585.2538

info@g1dfoundation.org

www.g1dfoundation.org

The Glut1 Deficiency Foundation is dedicated to improving the lives of those in the G1D community through its mission of increased awareness, improved education, advocacy for patients and families, and support and funding for research.

Greenwood Genetic Center

Booth 704

864.941.8100

labqc@qqc.orq

www.ggc.org

The Greenwood Genetic Center is a nonprofit institute organized to provide clinical genetic services, diagnostic laboratory testing, educational programs and resources and research in the field of medical genetics. Our laboratory offers biochemical, cytogenetic and molecular testing.

Igenomix

Booth 124

305.501.4948

marketingusa@igenomix.com

www.igenomix.us

A reproductive genetics company whose experience and research capabilities have placed them among the world leaders in the field, enabling them to provide effective solutions tailored to different infertility problems, with 24 laboratory affiliates worldwide.

Exhibitor Index continued

InformedDNA

Booth 732 & 733

800.975.4819

info@informeddna.com

www.informeddna.com

InformedDNA is the authority on the appropriate use of genetic testing. We leverage the largest staff of board-certified genetics specialists in the U.S. to counsel and advise health systems, payers, pharmaceutical companies, providers and patients.

Integrated Genetics

Booth 322

800.848.4436

www.integratedgenetics.com

With over 1,700 patient service centers, the largest commercial genetic counseling network, and an online cost estimator, Integrated Genetics, a member of the LabCorp Specialty Testing Group, offers one of the most comprehensive genetic testing menus.

Invitae

Booth

800.436.3037

clientservices@invite.com

www.invitae.com

Invitae's mission is to bring comprehensive genetic information into mainstream medical practice to improve the quality of healthcare for billions of people. Our goal is to aggregate most of the world's genetic tests into a single service with higher quality, faster turnaround time and lower prices.

Johns Hopkins Center for Fetal Therapy

Booth 230

410.502.6561

fetaltherapy@jhmi.edu

www.hopkinsmedicine.org/gynecology_obstetrics/specialty_areas/fetal_therapy/index.html

The Johns Hopkins Center for Fetal Therapy provides state-of-the art treatment for complex fetal conditions including twin-twin-transfusion syndrome, spina bifida, congenital diaphragmatic hernia, urinary tract obstruction and fetal tumors. Our multidisciplinary care approach integrates expertise in open and closed fetal interventions, fetoscopic surgery, maternal, neonatology, pediatric, genetic and social services located at one of the leading medical institutions in the nation. Our fetal therapy physician hotline — 1-844-JH-FETAL — provides 24/7 access to care.

Johns Hopkins Genomics

Booth 231

410.614.1075

www.jhgenomics.jhmi.edu

Integrating expertise, enabling data discovery, informing patient care.

JScreen at Emory University

Booth 601

404.778.8640

info@jscreen.org

www.JScreen.org

National, at-home genetic disease screening program offering affordable saliva-based expanded carrier screening and genetic counseling.

Kaiser NCAL Genetics

Booth 206

708.972.3300

jazmine.jung@kp.org

www.genetics.kp.org

Practice what you believe, practice at Kaiser Permanente! Kaiser Genetics is the employer of choice for over 70 genetic counselors in Northern California. Stop by our booth to meet some of our genetic counselors, learn about employment opportunities and talk to us about our rewarding positions.

Le Bonheur Children's Hospital

Booth 119

901.287.5080

www.lebonheur.org

Le Bonheur is a free standing pediatric acute care facility located in Memphis, TN. Recognized among the nation's "Best Children's Hospital" by US News & World Report for seven consecutive years.

Lettercase National Center for Prenatal & Postnatal Resources

Booth 104

770.310.3885

stephanie.meredith@uky.edu

www.lettercase.org

The Lettercase National Center for Prenatal and Postnatal Resources offers patient-friendly, accurate, balanced, and up-to-date resources about multiple genetic conditions, which are reviewed by representatives of the national medical and advocacy organizations.

MNG Laboratories

Booth 225

470.419.5606

alaimod@labcorp.com

www.mnglabs.com

MNG Laboratories, a LabCorp Company, strives to be your global partner in the diagnosis of inherited disease. MNG utilizes complex biochemical testing, next-generation sequencing, and RNA analysis to deliver results that drive patient-centered decisions.

Myriad Genetics

Booth 711

800.469.7423

cscomments@myriad.com

www.myriad.com

Myriad Genetics Inc., a leading personalized medicine company dedicated to being a trusted advisor is transforming patient lives worldwide with pioneering molecular diagnostics.

Natera, Inc.

Booth 429

650.249.9090

Ihuynh@natera.com

www.natera.com

Natera is a global leader in cell-free DNA testing. The company is driven to harness the power of DNA from a single blood sample to improve the management of reproductive health, oncology, and organ transplantation.

National Coordinating Center for the Regional Genetics Networks (NCC)

Booth 103

301.718.9603

ncc@nccrcq.org

www.nccrcg.org

The mission of the seven HRSA Regional Genetics Networks (RGNs), their National Coordinating Center (NCC), and the National Genetics Education and Family Support Center (NGEFSC) is to improve access to quality genetic services for medically underserved populations. The NCC is funded by a cooperative agreement to ACMG from the Health Resources and Services Administration, Maternal and Child Health Bureau, Genetic Services Branch (HRSA/MCHB/GSB).

National Down Syndrome Congress Booth 925

770.604.9500

tamara@ndsccenter.org

www.ndsccenter.org

The NDSC promotes the interests of people with Down syndrome and their families through advocacy, public awareness, and information. We reshape the way people understand and experience Down syndrome. We educate, advocate, empower and inspire.

Nationwide Children's Hospital

Booth 924

talent@nationwidechildrens.org

www.nationwidechildrens.org

Nationwide Children's Hospital is a destination academic pediatric medical center designed to manage the most complex of diseases. We treat the sickest of patients from across the country and around the world. We build research programs to assure tomorrow's breakthroughs help children everywhere. And we train the next generation of physicians, scientists and healthcare professionals. Beyond our walls, we invest in building social equity in our communities, address the social determinants of health, and develop payment models to better serve unique populations of children. Our unparalleled investment in Behavioral Health services and research further cements our role as an ambitious champion for the well-being of children everywhere.

NIH Genetic Testing Registry/ MedGen/ClinVar

Booth 817

The National Center for Biotechnology Information (NCBI, https://www.ncbi.nlm.nih. gov/variation/) at NIH advances science and health by providing access to biomedical and genomic information. NCBI will highlight resources for clinical genetics including GeneReviews®, MedGen, NIH Genetic Testing Registry (GTR®), ClinVar and the Medical Genetics Summaries, as well as important human variation tools and resources such as dbSNP, dbGaP, OSIRIS and SPDI.

Northside Hospital

Booth 433

404.851.8696

jennifer.gilbert@northside.com

www.northside.com

Northside is so much more than just a hospital. It's an extensive network of state-ofthe-art facilities staffed with skilled, caring professionals who are dedicated to the health and wellness of the communities they serve.

Norton & Elaine Sarnoff Center for Jewish Genetics

Booth 806

312.357.4718

jewishgenetics@juf.org

www.jewishgenetics.org

For more than a century, the residents of Kentucky and Southern Indiana have trusted the Norton Healthcare name for dedicated and compassionate care. With a network of five hospitals in Louisville, Norton Healthcare is a leader in serving adult and pediatric patients.

Exhibitor Index continued

Norton Genetic Specialists

Booth 102

502.550.9625

amanda.keller@nortonhealthcare.org

www.nortonhealthcare.com

Norton Healthcare is a leader in serving adult and pediatric patients in Louisville, Kentucky. Five hospitals provide inpatient and outpatient general care as well as specialty care.

Now I Lay Me Down to Sleep (NILMDTS) Booth 126

720.583.3339

headquarters@nilmdts.org

www.nowilaymedowntosleep.org

NILMDTS offers the gift of healing, hope and honor to parents experiencing the death of a baby through the overwhelming power of remembrance portraits.

NTD Eurofins

Booth 209

888.683.5227

stephaniezichi@eurofins.com

www.ntd-eurofins.com

For more than 30 years, NTD Eurofins has pioneered the research and development of prenatal screening protocols for open neural tube defects, Down syndrome, Trisomy 18/13 and early onset preeclampsia. Our laboratory network focuses on responding to your needs while enabling earlier, more accurate results, and our quality screening tests and services provide numerous benefits to healthcare providers and patients.

NxGen MDx

Booth 830

855.776.9436

info@nxgenmdx.com

www.nxgenmdx.com

NxGen MDx is a women's health care company providing precise genetic testing combined with best-in-class science, unrivaled accuracy, and personal genetic counselors to help you make informed decisions about your health and reproductive journey.

Parent Project Muscular Dystrophy/ Decode Duchenne

Booth 923

917.273.5020

jen@parentprojectmd.org

www.parentprojectmd.org

Parent Project Muscular Dystrophy fights every single battle necessary to end Duchenne. Decode Duchenne provides free genetic testing and counseling to people with Duchenne or Becker muscular dystrophy who have been unable to access genetic testing.

Partners Personalized Medicine Laboratory for Molecular Medicine

Booth 107

617.768.8500

Imm@partners.org

www.personalizedmedicine.partners.org/laboratory-for-molecular-medicine/default.aspx

The Laboratory for Molecular Medicine (LMM) is a CLIA-certified molecular diagnostic laboratory, operated by Partners HealthCare Personalized Medicine and is led by a group of Harvard Medical School-affiliated faculty, geneticists, clinicians and researchers.

PerkinElmer

Booth 523

800.762.4000

www.perkinelmer.com

Pairing our decades of experience in newborn screening with a state-of-the-art clinical genomics program, PerkinElmer Genomics provides one of the world's most comprehensive programs for detecting clinically significant genomic changes. Our high-quality, fast, affordable results allow clinicians to offer patients the answers they need to determine their path forward.

Pfizer Oncology

Booth 530

800.879.3477

www.pfizer.com

Pfizer is a leading research-based biopharmaceutical company. We apply science and our global resources to deliver innovative therapies that extend and significantly improve lives. For more than 150 years, we have worked to make a difference for all who rely on us.

Phoenix Childrens

Booth 921

602.933.5638

jpilka@phoenixchildrens.com

www.phoenixchildrens.com

With a medical staff of nearly 1,000 specialists, Phoenix Children's is one of the largest pediatric healthcare systems in the country, and the most comprehensive children's care facility in the state. We provide inpatient, outpatient, trauma and emergency care across more than 75 subspecialties.

PLUGS – Seattle Children's Hospital

Booth 329

206.987.5014

plugs@seattlechildrens.org

www.schplugs.org

PLUGS is a non-profit laboratory stewardship collaboration whose mission is to improve test ordering, interpretation, retrieval and reimbursement. Genetic counselors are important advocates for appropriate genetic testing – visit us to learn about our stewardship efforts!

PreventionGenetics LLC

Booth 605

715.387.0484

clinicaldnatesting@preventiongenetics.com

www.preventiongenetics.com

PreventionGenetics is a CLIA and ISO 15189:2012 accredited clinical DNA testing laboratory. PreventionGenetics provides patients with sequencing and deletion/duplication tests for nearly all clinically relevant genes, including whole exome sequencing, PGxome.

Progenity

Booth 729

events@progenity.com

www.progenity.com

Progenity offers advanced diagnostic tests that include the Preparent® Carrier Test, the Innatal® Prenatal Screen, the Resura™ Prenatal Test for Monogenic Disease and the Riscover® Hereditary Cancer Test.

PTC Therapeutics, Inc.

Booth 920

908.912.9426

www.ptcbio.com

PTC Therapeutics, Inc. is a science-led, global biopharmaceutical company focused on the discovery, development and commercialization of clinically-differentiated medicines that provide benefits to patients with rare disorders. PTC's ability to globally commercialize products is the foundation that drives investment in a robust pipeline of transformative medicines and our mission to provide access to best-in-class treatments for patients who have an unmet medical need. To learn more about PTC, please visit us on www.ptcbio.com and follow us on Facebook, on Twitter at @PTCBio, and on LinkedIn.

PWNHealth

Booth 131

www.pwnhealth.com

PWNHealth is transforming the way diagnostic tests are delivered, understood, and acted upon. We help to connect millions of patients to thousands of sophisticated and clinically-sound diagnostic tests, with individualized oversight and patient care. Our 50-state provider network and robust technology platform support a broad range of healthcare stakeholders.

Quest Diagnostics

Booth 113

973.520.2700

www.questdiagnostics.com

Quest Diagnostics empowers people to take action to improve health outcomes. Derived from the world's largest database of clinical lab results, our diagnostic insights reveal new avenues to identify and treat disease, inspire healthy behaviors and improve health care management.

RARE Science, Inc. - RARE Bears

Booth 803

info@rarescience.org

www.rarescience.org

In partnership with RARE Science, Inc., join NSGCares' special RARE Bear Stuff-and-Sew event in booth #803 any time the exhibit suite is open to help us reach our goal of completing 250 RARE Bears during this year's conference. The RARE Bear program, that gifts one-of-a-kind bears to one-of-a-kind kids, brings instant joy and globally unites rare communities seeking biological understanding of rare diseases of children on the way to improve therapies.

Recordati Rare Diseases Inc

Booth 623

908.236.0888

info@recordatirarediseases.com

www.recordatirarediseases.com/us

Recordati Rare Diseases is committed to providing often overlooked orphan therapies to the underserved rare disease communities. Our team works side-by-side with rare disease communities to increase awareness, improve diagnosis and expand availability of treatments.

Retrophin, Inc.

Booth 430 & 431

888.969.7879

www.retrophin.com

Retrophin is a biopharmaceutical company dedicated to identifying, developing and delivering life-changing therapies to people living with rare disease.

Rhythm Pharmaceuticals

Booth 633

857.264.4280

info@rhythmtx.com

www.rhythmtx.com

Rhythm is a biopharmaceutical company aimed at developing and commercializing therapies for the treatment of rare genetic disorders of obesity. Not all obesity is the same.

Exhibitor Index continued

Roche Diagnostics Corporation

Booth 202

800.428.5074

www.diagnostics.roche.com/us

Roche provides innovative diagnostic solutions to help clinicians make confident decisions for their patients' health, including the Harmony non-invasive prenatal test, a lab-developed (non-FDA approved) test to evaluate risk of Trisomy 21, 18 and 13.

Sanford Health

Booth 800

701.234.6510

sarah.julsrud@sanfordhealth.org

www.sanfordhealth.org

Sanford Health, one of the largest health systems in the United States, is dedicated to the integrated delivery of health care, genomic medicine, senior care and services, global clinics, research and affordable insurance. Headquartered in Sioux Falls, South Dakota, the organization includes 44 hospitals, 1,400 physicians and more than 200 Good Samaritan Society senior care locations in 26 states and 9 countries.

Sanford Research – CORDS Registry Booth 122

605.312.6465

alyssa.mendel@sanfordhealth.org

www.research.sanfordhealth.org/rare-disease-registry

Based at Sanford Research, a not-for-profit research institution, CoRDS is a centralized international patient registry for all rare diseases. We support patient advocacy groups, individuals, and researchers to coordinate the advancement of research into the 7,000 rare diseases.

Sanofi Genzyme

Booth 211

800.745.4447

www.sanofigenzyme.com

Sanofi Genzyme focuses on developing specialty treatments for debilitating diseases that are often difficult to diagnose and treat, providing hope to patients and their families.

Sarepta Therapeutics

Booth 628

617.274.4000

info@sarepta.com

www.sarepta.com

Sarepta is at the forefront of precision genetic medicine, having built an impressive and competitive position in Duchenne muscular dystrophy (DMD) and more recently in Limb-girdle muscular dystrophy (LGMD), Charcot-Marie-Tooth (CMT) MPS IIIA, Pompe and other CNS-related disorders, totaling over 20 therapies in various stages of development.

Sema4

Booth 724

www.sema4.com

Sema4 is a patient-focused health intelligence company offering genomic tests, digital tools, and clinical collaborations to deliver insights and drive better health decisions.

Sharsheret

Booth 213

201.833.2341

pcottrell@sharsheret.org

www.sharsheret.org

Sharsheret supports young Jewish women and families facing breast and ovarian cancer — before, during, and after diagnosis — including those at high genetic risk. We provide educational resources, offer individualized support and create local awareness programs.

Simons Searchlight

Booth 926

855.329.5638

coordinator@simonssearchlight.org

www.simonssearchlight.org

Simons Searchlight is a partnership of leading scientists, doctors, and families on a mission. We are determined to accelerate genetic research related to autism and other neurodevelopmental disorders.

Southwestern Women's Options

Booth 819

505.242.7512

admin@swoptionsnm.com

www.southwesternwomens.com

Southwestern Women's Options offers pregnancy terminations with no gestational limit for patients whose pregnancies have been diagnosed with fetal abnormalities. Our services are designed to meet your patient's needs in an atmosphere of warmth and respect.

Spark Therapeutics

Booth 625

1.855.SPARKTX

www.sparktx.com

Spark Therapeutics, a fully integrated, commercial gene therapy company, strives to challenge the inevitability of genetic disease by working to discover, develop and deliver gene therapies that address inherited retinal diseases.

Special Angels Adoption

Booth 228

740.395.3097

jennifer@specialangelsadoption.org

www.specialangelsadoption.org

Special Angels Adoption handles exclusively special needs adoptions all over the United States. Working with birth and adoptive families in all states allows us to serve our mission of helping all families of children with special needs.

Specialist TeleMed- Genetics Booth 432

512.402.8155

info@specialisttelemed.com

www.specialisttelemed.com

Specialist TeleMed-Genetics provides board certified genetic counselors & physician Geneticists to augment your current program or providers, or to initiate a full-service program in its absence. We help support or build a genetics program customized to your patient's medical needs, and your system's branding requirements.

Stealth BioTherapeutics

Booth 700

Stealth BioTherapeutics is an innovative biopharmaceutical company developing therapies to treat mitochondrial dysfunction associated with genetic mitochondrial diseases and common diseases of aging. Our team works with patients and advocacy organizations to better understand their journey with mitochondrial disease and raise awareness of the unmet need our programs seek to address.

Texas Children's Pavilion for Women-Fetal Center

Booth 332

832.822.2229

fetal@texaschildrens.org

www.women.texaschildrens.org/fetalcenter

Texas Children's Fetal Center®, located in Houston, TX, is one of the nation's leaders in the diagnosis and treatment of abnormalities in unborn and newborn infants.

UAB Medical Genomics Lab

Booth 627

205.934.5562

medgenomics@uabmc.edu

www.genetics.uab.edu/medgenomics

The UAB Medical Genomics Laboratory (MGL) is a CAP-certified, nonprofit clinical laboratory, offering comprehensive testing for both common and rare genetic disorders, while specializing in the neurofibromatoses, rasopathies and tuberous sclerosis.

UCLA Health

Booth 218

310.267.3292

www.uclahealthcareers.org

UCLA Health defines greatness by the quality of the patient experience we are able to deliver. Each and every time. To every single patient. If that's where your ambitions lie, UCLA is where you belong.

UCSF Health

Booth 533

415.353.4638

amy.ng@ucsf.edu

www.ucsfhealth.org

UCSF Health is recognized worldwide for its high-quality, innovative patient care, informed by advanced technologies and pioneering research. UCSF Health providers are leaders in virtually all specialties, including cancer, cardiology, children's health, neurology and transplant, and direct more than 1,500 clinical trials each year. UCSF Health exceeds the most widely used patient satisfaction and safety measures in the nation, and holds the highest designation for facilities that treat the most complex and specialized conditions. UCSF Health includes UCSF Medical Center, ranked among the nation's top five hospitals by U.S. News & World Report 2018-19, UCSF Benioff Children's Hospitals, and Langley Porter Psychiatric Hospital and Clinics. The health system also includes affiliations with top-tier hospitals and physician groups throughout the Bay Area to bring specialty care to patients close to home.

Ultragenyx Pharmacuetical Inc

Booth 833

415.483.8800

info@ultragenyx.com

www.ultragenyx.com

Ultragenyx is a biopharmaceutical company committed to bringing patients novel products for the treatment of serious rare and ultra-rare genetic diseases.

Undiagnosed Diseases Network (UDN)

Booth 105

844.746.4836

udn@hms.harvard.edu

www.udnconnect.org

The UDN is a research study funded by the NIH Common Fund. It is made up of clinical and research centers across the country working to improve diagnosis and care of patients with undiagnosed diseases.

Exhibitor Index continued

University of Chicago Genetic Services Laboratories

Booth 309

773.834.2795

mhelgeson@bsd.uchicago.edu

www.dnatesting.uchicago.edu

University of Chicago Genetic Services Laboratories is a CLIA- and CAP-certified laboratory offering cutting-edge DNA diagnostic services. We offer a wide range of tests for rare diseases including exome sequencing and panel based testing.

University of Washington

Booth 331

800.713.5198

commserv@uw.edu

www.depts.washington.edu/labweb/

UW-OncoPlex is a multiplexed gene sequencing panel that detects mutations in tumor tissue in 194 cancer-related genes; BROCA genetic risk panel for 62 genes; Coloseq and Coloseq Tumor genetic test using NGS.

UNMC Human Genetics Laboratory Booth 529

402.559.5070

humangenetics@unmc.edu

www.unmc.edu/mmi/geneticslab

The Human Genetics Laboratory at the University of Nebraska Medical Center (UNMC) is a full-service clinical cytogenetics and molecular genetics laboratory specializing in both constitutional (prenatal and postnatal) and cancer diagnostics for over 40 years.

VA Genomic Medicine Service

Booth 917

801.582.1565

christopher.lee2@va.gov

www.saltlakecity.va.gov

Department of Veterans Affairs. VA Genomic Medicine Service. Head office is located in Salt Lake City. VA Genomic provides care nationally. Genetic Counselors function as primary providers for this service.

Valley Children's Hospital

Booth 328

559.353.7058

dyee@valleychildrens.org

www.valleychildrens.org

Join Valley Children's Healthcare, one of the nation's ten largest pediatric hospitals located in affordable Central California. Excellent full-time Genetic Counselor opportunity in our Metabolic Genetics and Maternal Fetal Center. Come visit our booth!

Variantyx

Booth 108

617.209.2090

info@variantyx.com

www.variantyx.com

Variantyx provides Genomic Unity™ whole genome testing services to clinicians for diagnosis of rare inherited disorders. We also enable hospitals and labs to profitably expand their test menu with validated genomic diagnostic solutions using our automated Genomic Intelligence® platform for simplified NGS data analysis, interpretation and clinical reporting.

Women's Care Florida

Booth 128

813.286.0033

rcuti@womenscarefl.com

www.womenscarefl.com

Women's Care Florida (WCF) specializes in several women's specialties including obstetrics and gynecology, gynecologic oncology, urogynecology, gynecologic pathology, breast surgery, genetic counseling, maternal fetal medicine, behavioral health, endocrinology, gastroenterology, primary care and fertility. WCF has nearly 100 locations and more than 360 providers across Central and North Florida.

Your DNA.com

Booth 333

www.yourdna.com

YourDNA is an outreach platform serving patients, practitioners and the public with resources to understand genomic health. Whether health curious, symptom serious or journey specific, we strive to help everyone answer the question.



A NEW ERA OF MEDICINE IS UPON US

Sarepta is at the forefront of precision genetic medicine research, having built an impressive and competitive position in Duchenne muscular dystrophy (DMD) and more recently in 6 Limb-girdle muscular dystrophy diseases (LGMD), Charcot-Marie-Tooth (CMT), MPS IIIA, Pompe and other CNS-related disorders, totaling almost 30 therapies in various stages of development. Sarepta's programs and research focus span several therapeutic modalities, including RNA, gene therapy and gene editing. Sarepta is fueled by an audacious but important mission: to profoundly improve and extend the lives of patients with rare genetic-based diseases.



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