

Join Us In Salt Lake City

We invite you to join the National Society of Genetic Counselors (NSGC) and more than 2,300 of your peers as we celebrate the continual evolution of our profession. The 38th Annual Conference has an agenda packed with diverse educational content and a variety of networking opportunities designed specifically for genetic counselors and other genetics professionals. On behalf of the 2019 Program Committee, we are excited to share our program highlights for this year's conference.

Pre-Conference and Post-Conference Symposia

Enhance your conference experience with a pre-conference and/or post-conference symposia. These symposia allow you to take a deep-dive into topics of genomics, genetics and professional development and earn additional CEUs (up to 5.0 contact hours for pre-conference symposia and 3.0 contact hours for post-conference symposia). Additional registration fees apply.

Pre-conference topics this year include perinatal palliative care, traumatic cardiac events, testing and risk assessment for hematologic malignancies, interpreting patient reported outcomes, building cultural competency skills and using design thinking to improve efficiency. Post-conference topics include incorporating gender diversity into genetics, late-breaking cancer topics and clinical product strategy. See page 6 and 13 for more information on these sessions.

Interactive Workshops

To allow our attendees to explore specific topics through different learning modalities, we have included two-hour, interactive workshops in our conference schedule. These workshops will employ skill-based, active learning to encourage interaction with other session attendees and allow you to expand or enhance your network while you learn. Space is limited, so sign up for your preferred workshop when you register for the conference. Topics include developing leadership skills, effective communication in the era of precision medicine, adapting to consumer genetics, reviewing journal manuscripts and confronting privileged identity. A two-hour debate on breast cancer screening will also be available, concurrent to these workshops, for anyone who will not be able to attend a workshop.

Dr. Beverly Rollnick Memorial Lecture

As an extreme athlete, author and psychotherapist who is almost completely blind and deaf due to a rare genetic condition called Usher syndrome (type III), Rebecca Alexander will guide you to uncover your true potential to start leading a life that is worth celebrating. While we cannot change the difficult situations we have experienced in the past, we can work to better understand and resolve the challenges we face today and be prepared for the future. Rebecca's ability to engage her audience through emotion, in a safe and relatable way teaches us how to identify long-standing behavior patterns or negative belief systems and perceptions that may be holding us back from experiencing a more fulfilling and deeply meaningful life.

Make Connections

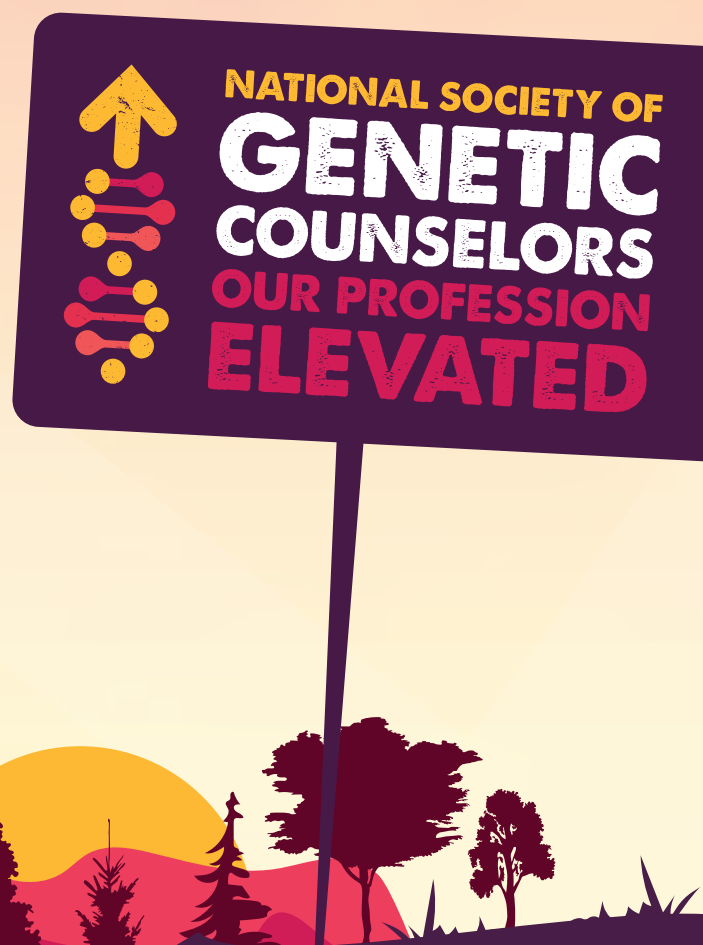
Take advantage of the networking breaks to make professional connections or catch up with friends. Organized networking events include the Tuesday evening Welcome Reception, training program reunions, Special Interest Group (SIG) meetings and more!

Make your travel plans for Salt Lake City early to ensure you receive the best possible hotel rates and airfare. Be sure to register for the conference on or before September 6, 2019, to take advantage of early registration discounts. For more information about hotel and travel, please visit www.nsgc.org/conference.

We look forward to seeing you in Salt Lake City!

Katherine Lafferty, MS, CGC
2019 Program Committee Chair

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



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Annual Conference exhibitors and sponsors provide you with information about services and products pertinent to the field of genetics and genomics. Make sure you find the time to visit them while at the conference!

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Parent Project Muscular Dystrophy/Decode Duchenne
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We look forward to seeing you at
the 2019 NSGC Annual Conference!

About NSGC's 38th Annual Conference

The largest national conference dedicated to advancing the profession of genetic counseling.

What Will You Gain?

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.

CONFERENCE EDUCATIONAL OBJECTIVES:

- Incorporate recent developments and technologies in genetics and genomics into genetic counseling best practices.
- Highlight emerging research by genetic counselors.
- Discuss the effect of ethical, legal and social issues on the practice of genetic counseling in a variety of settings.
- Support the promotion of our shared genetic counseling skills, history and core values in a variety of professional settings.
- Illustrate the use of advanced counseling techniques and application of counseling theory in the field of genetic counseling.

SIG Meetings

NSGC Special Interest Group (SIG) meetings will be held throughout the conference. As meeting times are confirmed, they will be posted online, in the mobile app and in the final program. Visit www.nsgc.org/conference for the most up-to-date information.

Program Reunions

Reunions will take place throughout the conference, typically in the evenings, at off-site venues. As reunion activities are confirmed, they will be posted online, in the mobile app and in the final program. Visit www.nsgc.org/conference for current information or to confirm a program reunion for publication.

Enjoy Salt Lake City

Dubbed "the city in a forest," Salt Lake City boasts 343 parks, nature preserves and gardens. You'll be steps away from the Red Butte Garden, Clark Planetarium, Tracy Aviary, Gardner Village and more. Easily accessible neighborhoods surround the downtown area and are bustling with places to eat and shop.



Accommodations

NSGC is committed to providing reasonable accommodations for our attendees. Attendees are asked to request accommodations and include dietary restrictions or food allergies through the registration form at www.nsgc.org/conference by **October 7, 2019**, so that necessary arrangements may be made. NSGC staff will contact attendees to discuss any accommodations.

Continuing Education

NSGC anticipates approval of continuing education for the pre- and post-conference symposia, Annual Conference general sessions and sponsored meal sessions. CEUs earned through these programs will be accepted by the American Board of Genetic Counseling (ABGC) as Category 1 CEUs for genetic counselor recertification. Individuals must be certified at the time of participation in the activity for CEUs to count towards recertification. The application is pending Category 1 CEU approval, and contact hours are subject to change.

Pre-conference Symposia	Earn up to: 5.00 Contact Hours
General Sessions	Earn up to: 20.50 Contact Hours
Sponsored Meal Sessions	Earn up to: 4.50 Contact Hours
Post-conference Symposia	Earn up to: 3.00 Contact Hours
Total	Earn up to: 33.00 Contact Hours

2019 Conference Recordings

Maximize your conference experience: view sessions you missed in Salt Lake City, earn additional CEUs and review the valuable information from the conference by purchasing online session recordings. The conference recordings package features all pre-conference symposia, post-conference symposia, plenary and educational breakout sessions.*

The full session recordings package is available for the special price of \$149 for conference attendees.** Registered attendees will be able to order the conference recordings through November 8, 2019, at the discounted rate of \$149, or following the conference at an increased rate. The 2019 conference recordings package will be available in January 2020.

Not planning to attend the Annual Conference? Check the NSGC website in January 2020 to purchase the recordings.

To earn Category 1 CEUs, you must complete and pass a quiz included at the conclusion of each recorded session.

Visit www.nsgc.org/conference to add the 2019 session recordings to your registration.

**With speaker approval*

***Discounted package rates only available when purchased in conjunction with a conference registration*

Reserve Your Meeting Space

If you are the host of a SIG or other organized genetic counselor group, please visit www.nsgc.org/conference to complete a meeting space request form. All meeting room requests are available on a first-come, first-served basis and are subject to NSGC approval.

Schedule-at-a-Glance

▶ Please note the change in day pattern for this year's conference.

Tuesday, November 5

8:00 am – 2:00 pm

Pre-Conference Symposia

3:00 pm – 3:15 pm

Opening Remarks

3:15 pm – 3:45 pm

Plenary Session

3:45 pm – 4:15 pm

Natalie Weissberger Paul
National Achievement Award

4:15 pm – 4:45 pm

Plenary Session

5:00 pm – 8:00 pm

Welcome Reception in the Exhibitor Suite

5:45 pm – 7:00 pm

Posters with Authors – Group A Posters

Wednesday, November 6

7:00 am – 7:45 am

Sponsored Breakfast Session

8:00 am – 8:35 am

Janus Lecture

8:35 am – 9:35 am

Professional Issues Panel

9:30 am – 10:15 am

Exhibitor Suite Open

10:15 am – 12:15 pm

Workshops

11:45 am – 1:30 pm

Exhibitor Suite Open

12:30 pm – 1:45 pm

Sponsored Lunch Sessions

12:30 pm – 2:30 pm

Various Committee Meetings

2:30 pm – 3:45 pm

Educational Breakout Sessions

3:45 pm – 4:15 pm

Exhibitor Suite Open

4:15 pm – 5:20 pm

Beverly Rollnick Memorial Lecture

5:20 pm – 5:50 pm

Audrey Heimler Special Projects Award

5:30 pm – 7:30 pm

Exhibitor Suite Open

5:45 pm – 6:45 pm

SIG Leaders Reception and
Past Board Member Reception

6:15 pm – 7:30 pm

Posters with Authors – Group B Posters

7:30 pm – 8:45 pm

Sponsored Evening Sessions

Thursday, November 7

7:00 am – 7:45 am

Sponsored Breakfast Session

8:00 am – 9:15 am

NSGC State of the Society Address

9:15 am – 9:45 am

Incoming Presidential Address

9:45 am – 10:20 am

Exhibitor Suite Open

10:20 am – 11:35 am

Platform Presentations

11:35 am – 3:00 pm

Exhibitor Suite Open

12:00 pm – 1:15 pm

Sponsored Lunch Session

12:15 pm – 12:45 pm

ABGC Business Meeting

12:45 pm – 1:15 pm

ACGC Presentation

1:20 pm – 2:35 pm

Posters with Authors – Group C Posters

2:35 pm – 3:00 pm

Passport to Prizes

3:10 pm – 4:40 pm

Educational Breakout Sessions

5:00 pm – 5:35 pm

Plenary Session

5:35 pm – 5:50 pm

Best Full Member Abstract Award

5:50 pm – 6:05 pm

Beth Fine Kaplan Best Student Abstract Award

6:05 pm – 6:35 pm

Jane Engelberg Memorial Fellowship (JEMF)
Presentation

7:00 pm – 9:00 pm

Code Talker Awards Ceremony

Brought to you by Invitae

Friday, November 8

7:00 am – 7:45 am

Sponsored Breakfast Session

8:00 am – 9:30 am

Educational Breakout Session

10:00 am – 10:50 am

Plenary Session

10:50 am – 11:50 am

Late-Breaking Plenary

12:15 pm – 1:30 pm

Platform Presentations

2:00 pm – 5:30 pm

Post-Conference Symposia

Session Speakers + Objectives

Pre-Conference Symposia

Tuesday, November 5

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

Heather MacLeod, MS CGC, SDY Case Registry Data Coordinating Center; Sam 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, Gene Dx; Shannon Hourigan, PhD, Inherited Cardiac Arrhythmia Program at Boston Children's Hospital; Katherine Spoonamore, MS, CGC, University of Indiana

- 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.

A02: Building Skill for Cultural Conversations in Genetic Counseling

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 skill 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.

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

- 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.

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

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, 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.

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

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

- 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.

A06: Redesigning the Way We Work to Improve Efficiency

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

- 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.

Plenary Sessions

Tuesday, November 5

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

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

- 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.
- Understand how the history of our profession and its professional organization impacts genetic counselors today and in the future.

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

Lee Cooper, JD, MBA, Enlight Bio

- 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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Session Speakers + Objectives *(continued)*

Wednesday, November 6

B03: Janus Lecture

Ashley Simpson Volz, CGC, BioMarinPharmaceutical, Inc.

- Describe the historical and current landscape of enzyme replacement therapies (ERT) for Lysosomal Storage Disorders (LSD).
- Understand 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.

B18: Dr. Beverly Rollnick Memorial Lecture

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.

Thursday, November 7

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

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.

Friday, November 8

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

Kaylene Ready, MS, CGC, GeneMatters; Cathy Wicklund, MS, CGC, Northwestern University; Tara Schmidlen, MS, LGC, Geisinger

- Define the use cases for artificial intelligence (AI) 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 AI and debate their merits.

Educational Breakout Sessions

Wednesday, November 6

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

Liane J. Abrams, MS, LCGC, UCSF, CSU Stanislaus; Barbara Biesecker, PhD, MS, CTC, RTI International; Andrea Fishbach, MS, MPH, LCGC, Kaiser Permanente Medical Group; Kathryn Sptizer Kim, MS, CGC, Stanford University

- 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.

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

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

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

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

Susan M. Wolf, JD, University of Minnesota; Gary Marchant, PhD, JD, MPP, 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

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.

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

Jennifer Eichmeyer, MS, LCGC, Boise State University; Janice Berliner, MS, LCGC, Bay Path University; Nicolle Dickey, MS, Boise State University; Megan Parker, Methodist Le Bonheur Healthcare; Stephanie Gandomi, MS, LCGC, 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 vs. 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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rare disorders



dermatology



immunology



rheumatology



endocrinology

Session Speakers + Objectives *(continued)*

Thursday, November 7

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

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

C13: Genetic Counselors in Research: From Dabbling in Clinic to an NIH Grant

- 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

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

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

- 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.

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

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

- Define the key principles and resources utilized in the practice of gene curation and understand 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 gene-curation protocols.
- Illustrate the benefits and complexities of gene-curation reanalysis and how this may impact updated clinical reports.

Friday, November 8

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

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.

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

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

- 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.

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

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, The University of Sydney

- 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.

D06: How to Talk to Your Patients About Imaging: What to Do When There Aren't NCCN Guidelines

Yelena Wu, PhD, Huntsman Cancer Institute, University of Utah; Wendy Kohlmann, MS, Huntsman Cancer Institute, University of Utah; Sandra Buys, MD, Huntsman Cancer Institute; Luke Maese, DO, Huntsman Cancer Institute, University of Utah; Kristin Zelle, MS, LCGC, Children's Hospital of Philadelphia; Mary-Louise Greer, MBBS FRANZCR, The Hospital for Sick Children

- 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.

D07: Weighing the Alternatives: Non-traditional Approaches to Improve Genetic Counseling Access and Efficiency

Julia Wynn, MS, 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.

Lecture *(Concurrent with workshops)*

Wednesday, November 6

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

- 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 implementations of germline genetic testing for all women with breast cancer.

Workshops *(Space is limited. Pre-registration is required)*

Wednesday, November 6

B06: Building Stronger Communities: Confronting White Womanhood*

Rhiannon Childs, *Confronting White Womanhood, Women's March, Planned Parenthood Advocates of Ohio*; Heather Marie Scholl, *Confronting White Womanhood*; Sophie Ellman-Golan, *Confronting White Womanhood, Women's March*

- 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.

**We do not believe in creating white-only spaces; all people are welcome to attend our workshop. However, they are designed to educate and inform white women, committed to being part of an intersectional feminist movement, to unpack the ways they uphold and benefit from white privilege. Interested people of color should understand that stories shared may be triggering and should consider how best to take care of yourselves in this conversation.*

Session Speakers + Objectives *(continued)*

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

Jehannine Austin, PhD, CGC, University of British Columbia; Kami Wolfe Schneider, MS, CGC, University of Colorado, Children's Hospital Colorado; Beverly Yashar, MS, PhD, University of Michigan; Heather Zierhut, PhD, University of Minnesota; Melanie Myers, PhD, Cincinnati Children's Hospital Medical Center; Christina Palmer, MS, PhD, CGC, UCLA; MaryAnn Campion, EdD, MS, LCGC, Stanford University

- 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

Galen Joseph, PhD, University of California, San Francisco; Mari Gilmore, MS, CGC, Kaiser Permanente Center for Health Research; Laura Mendoza, MS, CGC, University of Washington

- 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.

B09: Leadership Workshop for New Genetic Counselors

Elizabeth Kearney, MS, CGC, MBA; Erica Ramos, MS, 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.

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

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, MBA, Intelliger Consulting; Sara Riordan, MS, CGC, Intelliger Consulting

- 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 patient-centric 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.



Post-Conference Symposia

Friday, November 8

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

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

Kaitlyn Brown, MS, CGC, Children's Hospital at Montefiore; Sydney Shannon, MA, CASA

- 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).

D17: Late-Breaking Cancer Topics*

- Identify topics of particular interest of genetic counselors practicing in cancer genetics to specifically address their educational needs.
- Provide cutting-edge info to a large subspecialty segment of the NSGC membership.
- Examine emerging issues that will have a broad impact in cancer genetics.

**Topics to be determined by Cancer SIG members.*



Our mission is to reduce the impact of extremely rare and devastating diseases by providing urgently needed therapies. We work side-by-side with rare disease communities to increase awareness, improve diagnosis and expand availability of treatments for people with rare diseases.

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Attendee Registration Form

NSGC 38th Annual Conference

November 5 - 8, 2019 • Calvin L. Rampton Salt Palace Convention Center • Salt Lake City, Utah

Go paperless! Register today at www.nsgc.org/conference

FIRST NAME: _____ LAST NAME: _____ CREDENTIALS: _____

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Is this your first NSGC Annual Conference? ☐ Yes ☐ No

☐  Check the box here, if you will require accommodations or any dietary or allergy restrictions and NSGC will contact you directly.

☐ By checking the box here, you consent to the Terms and Conditions on the reverse of this registration form. If you have any questions or concerns, please contact NSGC at nsgc@nsgc.org.

Registration Fees

Payment accepted in US dollars by check, money order or credit card (online at www.nsgc.org/conference).

NSGC 38th Annual Conference	Early Registration (on or before Sept. 6)	Regular Registration (after Sept. 6)	Post-Conference Symposia	Student	Member	Non-member
Full Registration*			See page 13 for full titles and descriptions.			
NSGC Member	☐ \$400	☐ \$450	☐ D15	☐ \$63	☐ \$85	☐ \$120
NSGC Student Member	☐ \$275	☐ \$275	☐ D16	☐ \$63	☐ \$85	☐ \$120
NSGC Emeritus Member	☐ \$325	☐ \$325	☐ D17	☐ \$63	☐ \$85	☐ \$120
Non-member	☐ \$650	☐ \$700	Sponsored Sessions**			
Student Non-member	☐ \$275	☐ \$325	☐ Wednesday, November 6	Roche	7:00 am – 7:45 am	
Single-Day Registration*			☐ Wednesday, November 6	Boulder Abortion Clinic	7:00 am – 7:45 am	
NSGC Member	☐ \$225	☐ \$275	☐ Wednesday, November 6	Ambry	12:30 pm – 1:45 pm	
NSGC Student Member	☐ \$160	☐ \$160	☐ Wednesday, November 6	Myriad	12:30 pm – 1:45 pm	
NSGC Emeritus Member	☐ \$175	☐ \$175	☐ Wednesday, November 6	Sema4	7:30 pm – 8:45 pm	
Non-member	☐ \$275	☐ \$325	☐ Wednesday, November 6	Sanofi Genzyme	7:30 pm – 8:45 pm	
Student Non-member	☐ \$175	☐ \$225	☐ Thursday, November 7	Prevention Genetics	7:00 am – 7:45 am	
Pre-Conference Symposia*			☐ Thursday, November 7	PerkinElmer	7:00 am – 7:45 am	
	Student	Member	Non-member	☐ Thursday, November 7	Invitae	12:00 pm – 1:15 pm
See page 6 for full titles and descriptions.			☐ Thursday, November 7	GeneDx	12:00 pm – 1:15 pm	
A01	☐ \$90	☐ \$120	☐ Friday, November 8	Integrated Genetics	7:00 am – 7:45 am	
A02	☐ \$90	☐ \$120	☐ Friday, November 8	23andMe, Inc.	7:00 am – 7:45 am	
A03	☐ \$90	☐ \$120	*CEU fee is included in all member and non-member Annual Conference, pre-conference symposia and post-conference symposia registration fees.			
A04	☐ \$90	☐ \$120	**Food and beverage only guaranteed to first 225 registrants. Space is limited and available on a first come, first served basis.			
A05	☐ \$90	☐ \$120	Guest Pass: ☐ \$145 (Includes access to the Exhibitor Suite and continental breakfast)			
A06	☐ \$90	☐ \$120	Guest Name: _____			
Workshops			Conference Recordings			
Space is limited. Pre-registration is required. For those not attending a workshop, a lecture will be offered concurrently. See pages 11-12 for more information.			Full session recordings available for the special price of \$149 with registration.			
☐ B06			TOTAL AMOUNT ENCLOSED \$ _____			
☐ B07			Payment Information			
☐ B08			☐ Check enclosed (payable to NSGC in U.S. dollars)			
☐ B09			☐ Pay via credit card (go online to www.nsgc.org/conference to pay)			
☐ B10						

Send payment and registration form on or before September 13, 2019, to: NSGC Registration, 8348 Solutions Center, Chicago, IL, 60677-8003.
After October 12, 2019, you will need to register online or in Salt Lake City.

Cancellation Policy

Cancellation requests received after September 14, 2019, are subject to a \$75 cancellation fee. No refunds are issued for cancellations received after October 19, 2019.

Terms and Conditions

If any circumstance or event beyond the control of NSGC causes cancellation of all or any portion of the event, NSGC agrees to refund any portion of the registration fee which NSGC is reimbursed by insurance or other third party and shall not be liable for any other refund or payment arising from the cancellation or for other liability or damages arising from the event.

NSGC photographers may take photos or videos of attendees. Please be aware that these photos and videos are for NSGC's use only, and may appear in NSGC materials

and on NSGC social media sites. NSGC reserves the right to use personal identifiable information collected for business purposes, such as minimizing potential hotel attrition penalties for the association.

NSGC sends occasional emails from exhibitors prior to the event, informing attendees of giveaways, special events at the annual conference and new releases. These exhibitor emails are sent through NSGC. NSGC does not share email addresses with third parties. If you wish to opt-out of these emails, contact NSGC.

NSGC provides reasonable accommodations for our attendees without undue burden. Attendees are asked to specify any requirements or any dietary restrictions or food allergies before October 7, 2019, so any necessary rearrangements may be made. Attendees should submit this information through their registration form. A staff member may contact attendees to discuss accommodations.



Key Dates

Exhibit + Sponsorship Opportunities: Now Open
Early Registration Rates End: September 6
Book Your Hotel Stay By: October 7



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Salt Lake City, Utah
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