Precision Nursing: Through Research, Education and Practice

November 3-5, 2017
Hyatt Regency Reston
1800 Presidents Street
Reston, Virginia 20190
USA

Final Congress Program

International Society of Nurses in Genetics
Welcome to the 2017 ISONG World Congress

On behalf of the 2017 International Society of Nurses in Genetics (ISONG) World Congress Planning Committee and the ISONG Board of Directors, we are delighted to welcome you to this year’s Congress, an exciting opportunity to network with both new and old colleagues in Reston, Virginia.

In keeping with the mission of ISONG to foster scientific discovery and professional growth in nursing and human genetics and genomics worldwide, the focus of the 2017 ISONG World Congress is “Precision Nursing: Through Research, Education and Practice”. Presentations by Keynote, Plenary, Invited speakers and abstract presentations have been selected to meet the following program objectives:

- To describe the concept of personalized nursing, and its translation into nursing research, education and practice.
- To understand the unique, and important role of the professional nurse in the education of patients regarding personalized medicine.
- To recognize bioethical issues surrounding personalized nursing and their application in research, education and practice.
- To apply the concepts gained through this conference to further integrate personalized nursing in their own clinical specialty.

We couldn't have our meeting without the support of our Congress sponsors. Please stop by each booth, hear what is new and thank them for coming to Virginia!

Sincerely,

Susan W. Wesmiller
Congress Co-chair

Deborah Tamura
Congress Co-chair

In Recognition of the Dedication in the Planning of the ISONG World Congress

2017 Congress Committee

Tara Albrecht, PhD, ACNP-BC
Katherine Beutner, MS, CNS-BC, NP-BC
Cheryl Brubaker, BSN, MSN, DNP, FNP-BC
Dennis J. Cheek, RN, PhD, FAHA
Sylvia S. Estrada, DNP, WHNP-BC, CBCN
Jane Garvin, PhD, APRN, FNP-BC
Jessica M. Gill, PhD, RN
Michael Groves, PhD, RN, CNE
Lynnette Howington, DNP, RNC, WHNP-BC, CNL
Kathi Huddleston, PhD, RN, CCRC
Theresa Koleck, PhD, BSN, RN
Stephanie Nikbakht, DNP, PPCNP-BC
Mandy Schmella, PhD, RN
Memnun Seven, RN, PhD
Kim Walker, MSN, RN, CPNP
Mckenzie Wallace, BSN, BA, RN
Thursday, November 2, 2017

4:00PM – 8:00PM  Congress Registration

7:00PM – 9:00PM  Welcome Reception
Please join us for the Welcome Reception. It is a great way to kick off the annual meeting and to connect with new and old friends!

Friday, November 3, 2017

7:30AM – 5:00PM  Congress Registration

7:30AM – 8:30AM  Coffee, Tea / Visit Exhibits, Posters and Raffle
Attendees are on their own for breakfast. Join us for coffee and tea as you visit the exhibits, posters, and the raffle.

8:30AM – 8:45AM  President’s Welcome and Opening Remarks
Elizabeth L. Pestka, MS, PMHCNS-BC, AGN-BC
ISONG President
Clinical Nurse Specialist
Pain Rehab Center
Assistant Professor of Nursing
Mayo Clinic
Rochester, Minnesota USA

8:45AM – 9:45AM  Opening Keynote Presentation - Prenatal Genome Sequencing
Moderator: Susan Wesmiller
Benjamin E. Berkman, JD, MPH
Deputy Director
NHGRI (National Human Genome Research Institute)
National Institutes of Health
Bethesda, Maryland USA

Benjamin D. Solomon, MD, FACMG
Managing Director
GeneDx
Gathersburg, Maryland USA

Continuing Education Credits
ISONG and the University of Pittsburgh School of Nursing are collaborating to present the 2017 ISONG World Congress. Participating nurses successfully completing the program requirements may be awarded up to 13.45 contact hours of continuing nursing education.

The University of Pittsburgh School of Nursing is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center’s Commission on Accreditation (ANCC). In order to receive your CEU’s for this conference you must complete the Congress evaluation. The evaluation will be sent to all attendees on the final day of the program. Contact ISONG at: debbie@isong.org if you need any assistance. It is the responsibility of the attendee to complete the evaluation survey by November 8, 2017 in order to receive the credits.

ISONG Genetic Nursing Research Grant Award Recipients
Look for the ribbons throughout the congress program denoting the authors who are past recipients of this award.
### Abstract Sessions

<table>
<thead>
<tr>
<th>Time</th>
<th>Clinical Practice (Grand Ballroom A)</th>
<th>Research (Grand Ballroom B)</th>
<th>Research (Lake Audubon)</th>
</tr>
</thead>
</table>
| 9:45AM – 10:00AM | **Family Health History In Primary Care: A Critical Analysis Of Available Tools**
Karen J Whitt¹, Ann Maradiegue², Gaye Ray³, Lauren Bretzing³, ¹George Washington University, Washington, DC, USA, ²James Madison University, Harrisonburg, VA, USA, ³Brigham Young University, Provo, UT, USA

| 9:45AM – 10:00AM | **Suffering In The Midst Of Technology: Routine Prenatal Ultrasound Screening to Turbulent Congenital, Chromosome or Genetic Disorder Results**
Jeanne Gottlieb⁴, ¹University of Southern Maine, Portland, ME, USA

| 9:45AM – 10:00AM | **A Novel Hypomethylator Phenotype Unique to Basal-like Breast Cancer: Implications for Epigenetically Based Interventions**
Theresa Swift-Scanlan¹, Mikhail Dozmorov¹, ¹Virginia Commonwealth University, Richmond VA, USA

| 10:00AM – 10:15AM | **Standards of Practice: Living in the Real World**
Alice Kerber¹, Nancy Ledbetter², Suzanne Mahon³, ¹Georgia Center for Oncology Research and Education, Atlanta, Georgia, USA, ²Portland Wellness Center, Portland, Oregon, USA, ³Saint Louis University, St. Louis, MO, USA

| 10:00AM – 10:15AM | **Antibiotic Exposure During Pregnancy Effects Offspring Microbial Colonization: Bad Bugs Bloom**
Stephanie Prescott¹, Ernesto Perez-Chanona², Wendy Henderson¹, Giorgio Trinchieri², ¹National Institute of Nursing Research, Bethesda, MD, USA, ²National Cancer Institute, Cancer and Inflammation Program, Bethesda, MD, USA, ³University of Virginia, Charlottesville, Virginia, USA, ⁴Fairfax Neonatal Associates, Falls Church, VA, USA

| 10:00AM – 10:15AM | **Genetic Characterization of Families from a Hereditary Cancer Registry in Brazil**
Erika Santos¹, Caroline Sá¹, Bernardo Garicochea¹, Maria Del Pilar Díaz², Renata Coudry³, Edite Oliveira¹, Benedito Rossi¹, ¹Hospital Sirio-Libanes, Sao Paulo, Brazil

| 10:15AM – 10:30AM | **A Toolbox Approach to Guide Ethical Decision-Making in Genetics and Genomic Nursing**
Mary Beth Steck¹, ¹Clemson University, Clemson, SC, USA

| 10:15AM – 10:30AM | **Breast Milk Microbiota Profiles Among Mothers With Preterm Infants: A Review of the Literature**
Kelley Baumgartel¹, Michael Morowitz¹, ¹University of Pittsburgh, School of Nursing, Pittsburgh, PA, USA, ²University of Pittsburgh, School of Medicine, Pittsburgh, PA, USA

| 10:15AM – 10:30AM | **A Model Of The Childhood Lymphoma Implicates Important Prognostic Genes In Cancer Survival**
Rieko Sotojima¹, Joelle Fenger², William Kisseberth², Jennie Rowell³, ¹The Ohio State University College of Nursing, Columbus, OH, USA, ²The Ohio State University College of Veterinary Medicine, Columbus, OH, USA, ³The Ohio State University Comprehensive Cancer Center, Columbus, OH, USA

| 10:30AM – 10:45AM | **An Initiative to Mentor Nurses**
Susan Montgomery¹, Tammy McKamie², ¹Fox Chase Cancer Center, Philadelphia, PA, USA, ²W. Temple Webber Cancer Center, Texarkana, TX, USA

| 10:30AM – 10:45AM | **Primary Care Nurse Practitioners’ Knowledge and Experience Regarding the Management of Presumptive Positive Results of the Kentucky Mandated Newborn Screening Program**
Delwin Jacoby¹, Angela Crutcher², ¹Spalding University, Louisville, KY, USA, ²University of Kentucky, Lexington, KY, USA

| 10:30AM – 10:45AM | **Development Of An Interactive Pharmacogenomic Education Module: Comparison Of Oncology Nurses’ Knowledge And Attitudes Within Teaching And Community Hospitals.**
Crissy Dodson¹, ¹University of North Carolina at Wilmington, Wilmington, NC, USA

### ISONG membership means…

This premier educational event is just one of the many offerings that ISONG provides. Additional benefits of ISONG membership are:

- **Be informed:** receive the latest references and updates on genetics.
- **Stay connected:** connect with your peers through the Forum – a lively area for discussion in the membership system.
- **Career and growth opportunities:** job postings and educational events are listed in the membership system.
- **Year-round education:** Webinars and the Annual ISONG Congress offer educational opportunities, and members receive discounted registration fees for these programs. Webinars are available to view at your convenience and include Continuing Education Credits where noted.
- **Research grants:** ISONG members are eligible to apply for the annual research grant awards.

Join ISONG at www.isong.org. We look forward to welcoming you as a member!
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenters</th>
<th>Institution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:15AM</td>
<td>Abstract Sessions</td>
<td>Clinical Utility Of Rapid Genomic Sequencing In The Neonatal And Pediatric Intensive Care Units: What Nurses Need To Know</td>
<td>Julie Cakici¹, Stephen Kingsmore¹, David Dimmock¹, Sara Caylor¹, 'Rady Children's Institute for Genomic Medicine, San Diego, CA, USA</td>
<td>¹Rady Children's Institute for Genomic Medicine, San Diego, CA, USA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A Novel Approach to Genotype-phenotype Profiling for Ryanodine Receptor 1-related Myopathies</td>
<td>Katherine Meilleur¹, Monique Shelton¹, Jessica Witherspoon¹, Carolyn Allen¹, M. Sonia Razayvar¹, Michaela Cortes¹, Irene Chrismer¹, 'National Institute of Nursing Research, Bethesda, MD, USA</td>
<td>¹National Institute of Nursing Research, Bethesda, MD, USA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A Review of the Literature on the Relationships Between Genetic Polymorphisms and Chemotherapy-Induced Nausea and Vomiting</td>
<td>Komal Singh¹, Elena Flowers¹, Kord Kober¹, Anand Dhruba¹, Christine Miaskowski¹, 'University of California San Francisco, San Francisco, CA, USA</td>
<td>'University of California San Francisco, San Francisco, CA, USA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Educational Needs of Nurses to Provide Genetic Services in Prenatal Care: A Cross Sectional Study from Turkey</td>
<td>Memnun Seven¹, Kafiye Eroglu¹, Aygül Akyüz¹, Charlotte Ingvoldstad¹, 'Koç University, Istanbul, Turkey, 'Karolinska Institute, Stockholm, Sweden</td>
<td>¹Koç University, Istanbul, Turkey, 'Karolinska Institute, Stockholm, Sweden</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fatigue In Elderly Latino Home Care Patients With Chronic Conditions</td>
<td>Jingqing Shang¹, Mary Byrne¹, Kathleen Hickey¹, Suzanne Bakken¹, 'Columbia University, New York, NY, USA</td>
<td>'Columbia University, New York, NY, USA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>XRAYS: Unconfuse The News For Young Breast Cancer Survivors and Those At High Risk Of Breast Cancer</td>
<td>Lisa Schlager¹, Lisa Rezende¹, Sue Friedman¹, Julie Hyunh¹, Robin Pugh-Yi¹, 'FORCE: Facing Our Risk of Cancer Empowered, Tampa, FL, USA</td>
<td>'FORCE: Facing Our Risk of Cancer Empowered, Tampa, FL, USA</td>
</tr>
<tr>
<td>11:45AM</td>
<td>Abstract Sessions</td>
<td>Genetic Variation And Drug Phenotype Data For 3372 Newborns That Completed Pharmacogenetic Testing</td>
<td>Grace N Lawrence¹, Julie A Muskett¹, Allison G Mitchell¹, Grace Jo¹, Kathleen Brown¹, Ramaswamy Iyer¹, 'Inova, Falls Church, VA, USA</td>
<td>'Inova, Falls Church, VA, USA; 'University of Iowa, Iowa City, IA, USA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Factors Associated With Family Communication About Genetic Risk for Inherited Cardiac Conditions</td>
<td>Lisa Shah¹, 'University of Iowa, Iowa City, IA, USA</td>
<td>'University of Iowa, Iowa City, IA, USA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Assessment Of Genomic Knowledge Among Nurses In An Online RN To BSN Completion Program</td>
<td>Lisa Aiello¹,², 'Drexel University, Philadelphia, PA, USA, ²Villanova University, Villanova, PA, USA</td>
<td>'Drexel University, Philadelphia, PA, USA, ²Villanova University, Villanova, PA, USA</td>
</tr>
<tr>
<td>12:00PM</td>
<td>Lunch / Networking and ISONG Committee Meetings</td>
<td>Enjoy lunch with ISONG Members during the committee meetings (optional) or with your fellow Congress attendees. This is an opportunity to network early in the program!</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:45PM</td>
<td>Keynote Presentation</td>
<td>The Ethics in Research</td>
<td>Deb Tamura, David S. Wender, MA, PhD, Head, Section on Research Ethics, Department of Bioethics, Clinical Center, National Institutes of Health, Bethesda, Maryland USA</td>
<td></td>
</tr>
<tr>
<td>2:30PM</td>
<td>Refreshment Break / Visit Exhibits, Posters and Raffle</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Invited Speakers

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00PM – 3:30PM</td>
<td>Global Genetics Nursing Alliance – Creating a Roadmap</td>
<td>Grand Ballroom D</td>
<td>Kathleen Calzone, PhD, RN, APNG, FAAN</td>
</tr>
<tr>
<td></td>
<td>Moderator: Kim Walker</td>
<td></td>
<td>Maggie Kirk, PhD, BSc Hons, DipN, RGN, FRCN, SFHEA</td>
</tr>
<tr>
<td></td>
<td>Research Geneticist</td>
<td></td>
<td>Professor of Genetics Education</td>
</tr>
<tr>
<td></td>
<td>National Cancer Institute</td>
<td></td>
<td>University of South Wales</td>
</tr>
<tr>
<td></td>
<td>Bethesda, Maryland USA</td>
<td></td>
<td>Glyntaff, Wales UK</td>
</tr>
<tr>
<td>3:30PM – 4:00PM</td>
<td>Genetic Testing for Hereditary Cancer Syndromes: A Foreign Language or The Way of the Future?</td>
<td>Grand Ballroom A/B</td>
<td>Tammy McKamie, RN, MSN, OCN, GCN</td>
</tr>
<tr>
<td></td>
<td>Moderator: Mandy Schmella</td>
<td></td>
<td>Genetic Clinical Nurse/ Educator</td>
</tr>
<tr>
<td></td>
<td>Christus St. Michael Cancer Treatment Center</td>
<td></td>
<td>Texarkana, Texas USA</td>
</tr>
<tr>
<td>3:30PM – 4:00PM</td>
<td>Promising Strategies for Genomic Nursing Education</td>
<td>Grand Ballroom D</td>
<td>Linda D Ward, PhD, ARNP</td>
</tr>
<tr>
<td></td>
<td>Moderator: Kim Walker</td>
<td></td>
<td>Assistant Professor</td>
</tr>
<tr>
<td></td>
<td>College of Nursing</td>
<td></td>
<td>Washington State University</td>
</tr>
<tr>
<td></td>
<td>Spokane, Washington USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:00PM – 4:45PM</td>
<td>Epigenomic Biomarkers in Preeclampsia</td>
<td>Grand Ballroom A/B</td>
<td>Cindy Anderson, PhD, CRNP, WHNP-BC, FNAP, FAHA, FAAN</td>
</tr>
<tr>
<td></td>
<td>Moderator: Mandy Schmella</td>
<td></td>
<td>Associate Dean for Academic Affairs and Educational Innovation</td>
</tr>
<tr>
<td></td>
<td>College of Nursing</td>
<td></td>
<td>The Ohio State University</td>
</tr>
<tr>
<td></td>
<td>Columbus, Ohio USA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Poster Blitz Oral Presentations

**Posters 1 - 16**

4:00PM – 4:45PM

### Poster Reception

4:45PM – 5:45PM

### Fireside Chat

5:45PM – 6:30PM

Lois A. Tully, PhD
Program Director
Office of Extramural Programs
National Institute of Nursing Research (NINR)
National Institutes of Health
Bethesda, Maryland USA

Informal question and answer session with Dr. Lois Tully of the NINR. The session provides the young nurse scientist and more seasoned scientists an opportunity to discuss research and funding opportunities.
7:45AM – 5:00PM  Congress Registration

7:45AM – 8:15AM  ANCC Question and Answer Session

7:45AM – 8:45AM  Coffee, Tea / Visit Exhibits, Posters and Raffle
Attendees are on their own for breakfast. Join us for coffee and tea as you visit the exhibits, posters, and the raffle.

8:45AM – 9:00AM  Announcements

9:00AM – 9:45AM  Keynote Presentation – State of the Science in Genomic Nursing
Moderator: Susan Wesmiller
Patricia A. Grady, PhD, RN, FAAN
Director
National Institute of Nursing Research
National Institutes of Health
Bethesda, Maryland USA

9:45AM – 10:30AM  P30 Grant Panel
Moderator: Lois A. Tully, PhD
Program Director
Office of Extramural Programs
National Institute of Nursing Research (NINR)
National Institutes of Health
Bethesda, Maryland USA

Precision in Symptom Self-Management (PriSSM): Looking Through a Nursing Lens for the Future
Kathleen T. Hickey, EdD, FNP, ANP, FAHA, FAAN
Associate Professor
School of Nursing, Columbia University
Nurse Practitioner, Division of Cardiology
Columbia University
New York, New York USA

Towards Oncology Precision Symptom Science: Phenotype-Omics Association Studies in Clinically Relevant Animal Models
Susan G. Dorsey, PhD, RN, FAAN
Professor of Nursing
Chair, Department of Pain and Translational Symptom Science
Co-Director, UM Center to Advance Chronic Pain Research
University of Maryland Baltimore
Baltimore, Maryland USA

Achieving Precision Pain Management Through Nursing Research: A Trajectory to the Bull's-Eye
Angela Starkweather, PhD, ACNP-BC, CNRN, FAAN
Director, Center for Advancement in Managing Pain
Professor, University of Connecticut
Storrs, Connecticut USA

10:30AM – 11:00AM  Refreshment Break / Visit Exhibits, Posters and Raffle
Clinical Practice
(Grand Ballroom A)
Moderator: Katherine Beutner

Next-Generation Sequencing: Implications Surrounding Usefulness for Newborn Screening
Satishkumar Ranganathan Ganakammal1, 'Clemson University, Clemson, SC, USA

Testing Safety and Efficacy: The Randomized Controlled Exploratory Study of Exercise Training in Hypertrophic Cardiomyopathy (RESET-HCM)
Heidi Salisbury1, Euan Ashley1, Sharlene Day2, Sara Saberi1, Adam Helms1, John Meyers1, John Herrera2, Suwen Kumar2, Yael Schmargad1, Annika Dries1, Matthew Wheeler1, Maryann Concannon2, Anil Atlili2, Prachi Agarwal2, Whitney Hornsby2, Jennifer Bragg-Gresham2, 'Stanford Health Care, Palo Alto, CA, USA, 2University of Michigan, Ann Arbor, MI, USA

Revision Of The Genomic Nursing Concept Inventory
Linda D. Ward1, 'Washington State University, Spokane, WA, USA

Clinical Practice
(Grand Ballroom B)
Moderator: Sylvia Estrada

Genetic Counselling Outcome Scale (GCOS-24): Cultural Adaptation And Validation For Use In Measuring Patient-Reported Outcomes From Genetic Counselling In Brazil
Milena Flória-Santos1, Marion McAllister2, Mayara Segundo Ribeiro1, Bruna Tavares Bacalá1, Ana Paula Torres1, Alan Assunção1, Jennifer Thalita Targino dos Santos1, 'University of São Paulo at Ribeirão Preto College of Nursing, Ribeirão Preto, São Paulo, Brazil, 2Cardiff University School of Medicine, Cardiff, Wales, UK

Learning From Patients With Rare Diseases: Clinical Challenges Faced By Two Patients With Different Forms Of Methylmalonic Acidemia (MMA)
Carol Van Ryzin1, Susan Ferry1, 'NIH/NHGRI, Bethesda, MD, USA

An Innovative Interdisciplinary Doctoral Program for Nurses Focusing on Genetics and Genomics
Mary Beth Steck1, Julia Eggert1, 'Clemson University, Clemson, SC, USA

Education
(Lake Audubon)
Moderator: Lisa Aiello

A Transition Program for Adolescents with Down Syndrome: Three Year Review
Joanna Spahis1, Debbie Clark1, 'Children's Health Dallas, Dallas, TX, USA

Pharmacogenetics: A Valuable Resource For Patients Participating In Care Coordination With Depression
Julie Kittelsrud1, Lisa Weisser1, Neil Matthiesen1, Trisha Lauterbach1, Melissa Black1, Noah Kallsen1, Sandy Crisp1, David Basal1, Krista Bohlen1, 'Avera Institute for Human Genetics, Sioux Falls, USA, 2University of South Dakota, Sanford School of Medicine, Department of Psychiatry, Sioux Falls, SD, USA, 3Avera Health, Care Coordination program, Sioux Falls, SD, USA

Measuring Genomic Literacy Among Lebanese Nurses
Kathi C. Huddleston1, Linda D. Ward2, Maya Nizam1, Iman Kouatly1, Alik Sarian1, Lina Kurdahi Badr1, 'Inova Translational Medicine Institute, Falls Church, VA, USA, 2Washington State University, Spokane, WA, USA, 3American University of Beirut Medical Center, Beirut, Lebanon

Outcomes of Newborn Screening for Lysosomal Storage Disorders in Illinois
Lauren Hitchins1, Erika Vucko1, 'Ann & Robert H. Lurie Children's Hospital, Chicago, IL, USA

Evaluating the Practicality of Clinic-Wide Utilization of a Psychotropic Assay
Katie Halfmaier1, Virginia Conley1, 2, Sandra Daack-Hirsch1, Lisa Shah2,1University of Iowa College of Nursing, 2Eyerly Ball Community Mental Health Center, 3University of Pittsburgh College of Nursing

Innovative Online Teaching Strategies for Graduate Students
Leighsa Sharoff1, 'Hunter College, New York, NY, USA

12:00PM – 2:00PM

Lunch/Awards Presentations/Business Meeting
Enjoy lunch and networking while honoring ISONG members as the awards for Nursing Research Grants, Founders' and President's awards are presented. Also, this is an exciting time to hear updates about our organization, committee reports and the goals of ISONG for the coming year - please join us!
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00PM – 3:15PM</td>
<td><strong>Abstract Sessions</strong></td>
</tr>
<tr>
<td>2:00PM – 2:15PM</td>
<td><strong>Research</strong> (Grand Ballroom A) Moderator: Tara Albrecht</td>
</tr>
<tr>
<td></td>
<td>Oxytocin Receptor (OXTR) and Vasopressin Receptor (AVPR1A) Genes as Candidate Genes for Apathy in Persons with Alzheimer Disease</td>
</tr>
<tr>
<td></td>
<td>Emilie Goris1, Jamie Johnson1, Sarah Melby1, Alexandra Vroom1, Debra Schutte1, 1Hope College, Holland, MI, USA, 2Wayne State University, Detroit, MI, USA</td>
</tr>
<tr>
<td></td>
<td>Differences in the Stool and Skin Microbiome and in Antimicrobial Resistance Genes in a Private Room Versus Open-bay Neonatal Intensive Care Unit</td>
</tr>
<tr>
<td></td>
<td>Kathi Huddleston1, Elisabeth Klein1, Varsha Deopujari1, Suchitra Hourigan1, 1Inova Translational Medicine Institute, Falls Church, VA, USA, 2Pediatric Specialists of Virginia, Fairfax, VA, USA</td>
</tr>
<tr>
<td>2:00PM – 2:15PM</td>
<td><strong>Research</strong> (Grand Ballroom B) Moderator: Alice Kerber</td>
</tr>
<tr>
<td></td>
<td>Understanding Parental Refusal To Enroll Their Children In A Genomic Sequencing Research Study</td>
</tr>
<tr>
<td></td>
<td>Anastasia Ouma1, Stacy Hines-Dowell1, Kayla Hamilton1, Lynn Harrison1, Elsie Gerhardt1, Victoria Liddle1, Rose McGee1, Regina Nuccio1, Emily Quinn1, Jessica Valdez1, Chimene Kesserwan1, Kim Nichols1, 1St. Jude Childrens Research Hospital, Memphis TN, USA</td>
</tr>
<tr>
<td>2:15PM – 2:30PM</td>
<td><strong>Research</strong> (Lake Audubon) Moderator: Jane Garvin</td>
</tr>
<tr>
<td></td>
<td>Up to Date: Ankyloglossia and Maxillary Lip-ties</td>
</tr>
<tr>
<td></td>
<td>Emily Hopkins1, 1Chatham University, Pittsburgh, PA, USA</td>
</tr>
<tr>
<td>2:15PM – 2:30PM</td>
<td><strong>Research</strong> (Grand Ballroom B) Moderator: Alice Kerber</td>
</tr>
<tr>
<td></td>
<td>Factors Affecting Recruitment And Consent To Biological Specimen Banking In An Observational Cohort Study Of Pregnant Women</td>
</tr>
<tr>
<td></td>
<td>Shannon Gillespie1, Cindy Anderson1, 1The Ohio State University, Columbus, OH, USA, 2University of North Dakota, Grand Forks, ND, USA, 3Roswell Park Cancer Institute, Buffalo, NY, USA</td>
</tr>
<tr>
<td>2:30PM – 3:15PM</td>
<td><strong>Research</strong> (Grand Ballroom B) Moderator: Alice Kerber</td>
</tr>
<tr>
<td></td>
<td>Gene Expression Patterns and Measurement of Gene Expression Changes</td>
</tr>
<tr>
<td></td>
<td>Komal Singh1, Christine Miaskowski1, Elena Flowers1, Anand Dhruva1, Kord Kober1, 1University of California San Francisco, San Francisco, CA, USA</td>
</tr>
<tr>
<td>2:30PM – 3:15PM</td>
<td><strong>Research</strong> (Lake Audubon) Moderator: Jane Garvin</td>
</tr>
<tr>
<td></td>
<td>Relationship Between Psychosocial Distress In Pregnancy And Two Genes Associated With Human Social Interaction</td>
</tr>
<tr>
<td></td>
<td>Sarah Dewell1, Donna Slater1, Karen Benzies1, Sheila McDonald1, Suzanne Tough1, 1University of Calgary, Calgary, AB, Canada</td>
</tr>
<tr>
<td>Time</td>
<td>Event</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>3:45PM – 5:00PM</td>
<td><strong>Abstract Sessions</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Research</strong> (Grand Ballroom A) Moderator: Kathi Huddleston</td>
</tr>
<tr>
<td></td>
<td>Moderate Blast Exposure Alters Peripheral Concentrations of Proteins</td>
</tr>
<tr>
<td></td>
<td>Related to Neurodegeneration</td>
</tr>
<tr>
<td></td>
<td>Nicole Osier1, Jessica Gill1, Katie Edwards1, Kristine C. Dell1,</td>
</tr>
<tr>
<td></td>
<td>Walter Carr1, Peter Walker1, Steven Ahlers1, Matthew LoPresti1,</td>
</tr>
<tr>
<td></td>
<td>Angela Yarnell1,  National Institutes of Health: National Institute</td>
</tr>
<tr>
<td></td>
<td>of Nursing Research, Bethesda, MD, USA, Walter Reed Army Institute of</td>
</tr>
<tr>
<td></td>
<td>Research, Silver Spring, MD, USA,  Naval Medical Research Center,</td>
</tr>
<tr>
<td></td>
<td>Silver Spring, MD, USA</td>
</tr>
<tr>
<td></td>
<td><strong>Research</strong> (Grand Ballroom B) Moderator: Jessica Gill</td>
</tr>
<tr>
<td></td>
<td>OMICS Nursing Science and Education Network (ONSEN)</td>
</tr>
<tr>
<td></td>
<td>Kathleen Calzone1, Ann Carson1, Lois Tully1, Jean Jenkins1,</td>
</tr>
<tr>
<td></td>
<td>‘National Institutes of Health, National Cancer Institute, Bethesda,</td>
</tr>
<tr>
<td></td>
<td>MD, USA, National Institutes of Health, National Institute of Nursing</td>
</tr>
<tr>
<td></td>
<td>Research, Bethesda, MD, USA, National Institutes of Health, Health,</td>
</tr>
<tr>
<td></td>
<td>National Human Genome Research Institute, Bethesda, MD, USA,</td>
</tr>
<tr>
<td></td>
<td><strong>Research</strong> (Lake Audubon) Moderator: Catherine Read</td>
</tr>
<tr>
<td></td>
<td>Genetic Risk Factors of the Transition from Acute to Chronic Pain</td>
</tr>
<tr>
<td></td>
<td>Angela Starkweather1, Divya Ramesh1, Mallory Perry1, Thomas Julian1,</td>
</tr>
<tr>
<td></td>
<td>Katherine Bernier1, Debra Lyon1, Susan Dorsey1, Kyle Baumhower1,</td>
</tr>
<tr>
<td></td>
<td>Erin Young1, University of Connecticut, Storrs, CT, USA, University</td>
</tr>
<tr>
<td></td>
<td>of Maryland, Baltimore, MD, USA, University of Florida, Gainesville,</td>
</tr>
<tr>
<td></td>
<td>FL, USA</td>
</tr>
<tr>
<td></td>
<td>**Neurobiological Mechanisms Of Chemobrain: A Feasibility Study Using</td>
</tr>
<tr>
<td></td>
<td>An Animal Model**</td>
</tr>
<tr>
<td></td>
<td>Grace Lawrence1, Kyeung Mi Oh1, Margaret Rodan1, Theodore Dumais1,</td>
</tr>
<tr>
<td></td>
<td>Virginia Espina1, George Mason University, Fairfax, VA, USA, INOVA,</td>
</tr>
<tr>
<td></td>
<td>Falls Church, VA, USA</td>
</tr>
<tr>
<td></td>
<td><strong>ICU Delirium And Changes In IL6ST Methylation.</strong></td>
</tr>
<tr>
<td></td>
<td>Sheila Alexander1, Bryan McVerry1, Scott Gunn1, Yvette Conley1,</td>
</tr>
<tr>
<td></td>
<td>Jian Xu Ren1, University of Pittsburgh, Pittsburgh, PA, USA</td>
</tr>
<tr>
<td></td>
<td>**Altered Gene Expression Following Blast-Induced Traumatic Brain</td>
</tr>
<tr>
<td></td>
<td>Injury in a Military Population**</td>
</tr>
<tr>
<td></td>
<td>Katie Edwards1, Nicole Osier1, Vida Motamed1, Jessica Gill1, National</td>
</tr>
<tr>
<td></td>
<td>Institutes of Health, Bethesda, MD, USA</td>
</tr>
<tr>
<td></td>
<td>**Diabetes Education Is Associated with Improved Sleep Quality and</td>
</tr>
<tr>
<td></td>
<td>Changes in Gene Methylation**</td>
</tr>
<tr>
<td></td>
<td>Evelyn G. Bigini1, Eileen R. Chasens1, Yvette P. Conley1, Christopher</td>
</tr>
<tr>
<td></td>
<td>C. Imes1, University of Pittsburgh School of Nursing, Pittsburgh, PA,</td>
</tr>
<tr>
<td></td>
<td>USA</td>
</tr>
<tr>
<td></td>
<td>**Family Communication About Familial Risk Of Stroke Promotes Perceived</td>
</tr>
<tr>
<td></td>
<td>Risk In Adult Offspring of Stroke Patients**</td>
</tr>
<tr>
<td></td>
<td>Masakazu Nishigaki1, Mana Kawaguchi1, Mami Fukumori1, Miyako Minoda1,</td>
</tr>
<tr>
<td></td>
<td>Akiko Ota1, Kyoto University, Kyoto, Japan, Brain Attack Center Ota</td>
</tr>
<tr>
<td></td>
<td>Memorial Hospital, Fukuyama, Japan</td>
</tr>
<tr>
<td></td>
<td>**Developing A Pre-appointment Video To Prepare New Families For</td>
</tr>
<tr>
<td></td>
<td>Genetics Clinic Visit**</td>
</tr>
<tr>
<td></td>
<td>Andrea Hartgraves1, Tammy Fairbanks1, Seattle Children's Hospital,</td>
</tr>
<tr>
<td></td>
<td>Seattle, WA, USA</td>
</tr>
<tr>
<td></td>
<td>**A Complex Genetic Variant with Distinct Phenotype as a Model for</td>
</tr>
<tr>
<td></td>
<td>Understanding Common-Complex Diseases**</td>
</tr>
<tr>
<td></td>
<td>Elizabeth McNamara1, Jacob Bailey1, Carlos Alvarez1, Jennie Rowell1,</td>
</tr>
<tr>
<td></td>
<td>The Ohio State University College of Nursing, Columbus, OH, USA, The</td>
</tr>
<tr>
<td></td>
<td>Ohio State University College of Medicine, Columbus, OH, USA</td>
</tr>
<tr>
<td>5:00PM – 5:30PM</td>
<td><strong>Raffle Drawing (Grand Ballroom D)</strong></td>
</tr>
</tbody>
</table>
Sunday, November 5, 2017

7:15AM – 12:00PM  Congress Registration

7:15AM – 8:00AM  Coffee, Tea / Visit Exhibits
Attendees are on their own for breakfast. Join us for coffee and tea as you visit the exhibits, posters, and the raffle.

8:00AM – 8:30AM  Incoming President Address — Four Attributes of Science Pioneers
Mindy Tinkle, PhD, RN, WHNP-BC, FAAN
Associate Professor
College of Nursing
University of New Mexico
Albuquerque, New Mexico USA

8:30AM – 9:30AM  International Panel
Moderator:
Memnun Seven, PhD, RN
Assistant Professor
Koc University School of Nursing
Istanbul, Turkey

Panel:
Sivia Barnoy, RN, PhD
Associate Professor
Nursing Department
Tel-Aviv University
Tel-Aviv, Israel

Sarah Dewell
PhD Student
University of Calgary
Calgary, Alberta Canada

Gülten Güvenç, RN, PhD
Associate Professor
University of Health Science
Gulhane School of Nursing
Ankara, Turkey

Bobbi Laing, MHSc (Hons), DipTeach, Dip HM, RN
PhD Candidate
Lecturer Nursing
School of Nursing
University of Auckland
Auckland, New Zealand

Thomas R. Mikkelsen, PhD
Associate Professor
VIA University College
School of Nursing
Holstebro, Denmark

Masakazu Nishigaki, PhD, RN, PHN, CGC
Associate Professor
Human Health Sciences
Kyoto University
School of Medicine
Kyoto, Japan

Erika Maria Monteiro Santos, RN, PhD
Scientific Advisor
Institute of Education and Research
Hospital Sírio-Libanês
São Paulo, Brazil
Sunday, November 5, 2017

9:30AM – 10:00AM  Invited Speaker  
Personalized Nursing  
Moderator: McKenzie Wallace  
Allison A. Vorderstrasse, DNSc, APRN, FAAN  
Associate Professor  
Director, Florence S. Downs PhD Program in Nursing Research and Theory  
NYU Rory Meyers College of Nursing  
New York, New York USA

10:00AM – 10:30AM  Refreshment Break/Visit Exhibits

10:30AM – 11:00AM  Invited Speaker  
Pharmacogenomics Update  
Moderator: Lynnette Howington  
Dennis Cheek, RN, PhD, FAHA  
Professor  
Harris College of Nursing and Health Sciences  
Texas Christian University  
Fort Worth, Texas USA

11:00AM – 12:00PM  Closing Keynote Speaker – Developing EXPertise; The UK Journey  
Moderator: Deb Tamura  
Sally Turner  
CNS in Xeroderma Pigmentosum, Children  
St. John’s Institute of Dermatology  
St. Thomas’ Hospital  
London, United Kingdom

Congress Concludes

ISONG Board of Directors

President  
Elizabeth L. Pestka, MS, PMHCNS-BC, AGN-BC  
Mayo Clinic  
Rochester, Minnesota USA

Past-President  
Sandra Daack-Hirsch, PhD, RN  
University of Iowa  
Iowa City, Iowa USA

President-Elect  
Mindy Tinkle, PhD, RN, WHNP-BC, FAAN  
University of New Mexico  
Albuquerque, New Mexico USA

Treasurer  
Rebecca Kronk, PhD, MSN, CRNP  
Duquesne University School of Nursing  
Pittsburgh, Pennsylvania USA

Secretary  
Cathy Read, PhD, RN  
Boston College  
Chestnut Hill, Massachusetts USA

Student Representative  
Lacey Wright Heinsberg, BSN, BS, RN  
Pittsburgh, Pennsylvania USA

Board Members at Large  
Gia Mudd-Martin, PhD, MPH, RN  
University of Kentucky  
Lexington, Kentucky USA

Sivia Barnoy, RN, PhD  
Tel-Aviv University  
Tel Aviv, Israel

Executive Director  
Beth A. Kassalen, MBA  
ISONG  
Pittsburgh, Pennsylvania USA

ISONG Administration  
Linda R. Mason  
Debbie Zaparoni
1 Hereditary Cancer Knowledge of Honduran Healthcare Providers
Sylvia S. Estrada1, 1Cedars-Sinai Medical Center, Los Angeles, CA, USA

2 Genetics Education for Health Professionals: Lessons Learned from the American Society of Human Genetics Experience
Karen Hanson1, Joseph D. McInerney1, Michael Dougherty1, 1American Society of Human Genetics, Bethesda, MD, USA

3 Genomes for Nurses (G4N)
Stacy Hines-Dowell1, Belinda Mandrell1, Annastasia Ouma1, Leslie Taylor1, Jami Gattuso1, Lynn Harrison1, Kayla Hamilton1, Emily Quinn1, Rose McGee1, Regina Nuccio1, Kim Nichols1, 1St. Jude Children's Research Hospital, Memphis, TN, USA

4 National Survey: Genetic Knowledge Of Danish Nurses – Needs And Reality
Kari Konstantin Nissen1, Karin Christiansen2, Thomas Raundahl Mikkelsen3, 1VIA University College, Aarhus School of Nursing, Aarhus, Denmark, 2VIA University College, Holstebro School of Nursing, Holstebro, Denmark, 3VIA University College, Department of Health, Aarhus, Denmark

5 Cancer Risk Management Program and Advanced Nurse in Genetics Streamline Comprehensive Surveillance for Patients Most at Risk
Denise Musser1, Kristin Niendorf1, Mary Ahrens1, Olivia Michel1, Sarah Mets1, Alyssa Kne1, Rob Madoff1, 1University of Minnesota, Minneapolis, MN, USA

6 Patient Perceptions and Behavior Changes Associated with Nurse Led Education and Discussion Related to a Reported Family History of Substance Abuse
Elizabeth Pestka1, 1Mayo Clinic, Rochester, MN, USA

7 Exploring A Biobehavioral Self-Management Intervention On Epigenetic Alterations In Adults With Acute Myeloid Leukemia: A Pilot Study
Tara Albrecht1, Mikhail Dozmorov1, Danielle Shafer1, Theresa Swift-Scanlan1, Adam Sima1, Angela Starkweather2, 1Virginia Commonwealth University, Richmond, VA, USA, 2University of Connecticut, Storrs, CT, USA

8 The Influence of Test Predictive Value and Disease Treatability on Israeli Arabs Intention to Undergo Predictive Genetic Testing and Share Test Results with their Family
Sivia Barnoy1, Effaf Athamna1, 1Tel-Aviv University, Tel-Aviv, Israel

9 Reducing Breast Cancer By Accurately Assessing Risk: Findings of a Community Hospital High Risk Breast Cancer Clinic
Karen Herold1, Ahlam Jadalla1, Allyson Brooks1, 1Hoag Memorial Hospital Presbyterian, Newport Beach, CA, USA

10 Carpenter Syndrome - A Case Report of a Rare Autosomal Recessive Condition
Delwin Jacoby1, 1University of Kentucky, Lexington, KY, USA, 2Spalding University, Louisville, KY, USA

11 Integrating Genetics and Genomics into the Doctor of Nursing Practice Curriculum
Delwin Jacoby1, 1Spalding University, Louisville, KY, USA

12 Decision-Making Regarding Prenatal Genetic Screening Among Pregnant Korean-American Women
Myunghee Jun1, Vipavee Thongpriwan2, Jeeyae Choi1, Kyung Sook Choi4, Gwen Anderson5, 1UW-Green Bay, Green Bay, WI, USA, 2UW-Milwaukee, Milwaukee, WI, USA, 3University of North Carolina Wilmington, Wilmington, NC, USA, 4Chung-Ang University, Seoul, Republic of Korea, 5Chaminade University of Honolulu, Honolulu, HI, USA

13 Results of the NGS Analysis in Patients With Suspected Hereditary Colorectal Cancer Due to Family History
Erika Santos1, Carolina Sá2, Bernardo Garcia-Cuevas3, Edite Oliveira4, Maria Del Pilar Diz5, Renata Coudry6, Benedito Rossi1, 1Hospital Sirio-Libanes, Sao Paulo, Brazil

14 HAMP Gene Polymorphism and Patient Outcomes Following Aneurysmal Subarachnoid Hemorrhage
Lacey Wright Heinsberg1, Dianxu Ren1, Elizabeth Crago1, Paula Sherwood1, Samuel Poloyac2, Yvette Conley1, 1University of Pittsburgh School of Nursing, Pittsburgh, PA, USA, 2University of Pittsburgh School of Pharmacy, Pittsburgh, PA, USA
15  Pre-systemic Treatment Pain Severity And Variant in CYP19A1 rs700519 Genotype Contribute to Worse Pain Severity During Aromatase Inhibitor Treatment For Breast Cancer
Yehui Zhu1, Yvette Conley1, Theresa Kolec2, John Merriman1, Susan Sereika1, Catherine Bender1, 1University of Pittsburgh School of Nursing, Pittsburgh, PA, USA, 2Columbia University School of Nursing, New York, NY, USA

16  Polymorphism-G308a Gene Tnf-A And Sleep Disturbance In Open Populations Men 25-64 Years Of Siberia: Who Program Monica-Psychosocial
Valery Gafarov1, Elena Gromova1, Igor Gagulin1, Dmitriy Panov1, Almira Gafarova1, 1FSBI Institute of Internal and Preventive Medicine, Novosibirsk, Russia

17  The Expression-Regulation Model: A Middle-Range Theory Eric Barbato1, Rebecca Darrah1, 1Case Western Reserve University, Cleveland, OH, USA

18  Persistent Misconceptions of Graduate Nursing Students About Genome Basics
Jane Garvin1, Beverly Collins1, 1Augusta University, Augusta, GA, USA

19  Identification of DNA Methylation Markers Of Preterm Birth Risk Using Banked Whole Blood Specimens: Methodological Insights
Shannon Gillespie1, Joyce Ohm1, Cindy Anderson1, 1The Ohio State University, Columbus, OH, USA, 2Roswell Park Cancer Institute, Buffalo, NY, USA

20  Genetic and Viral Infection Risk Factors for Age-Related Macular Degeneration
Yvette P. Conley1, Frances Peterson-Burch1, Michael Gorin2, Daniel Weeks1, 1University of Pittsburgh, Pittsburgh, PA, USA, 2University of California, Los Angeles, CA, USA

21  Associations Between Ancestry-informative Markers and Fatigue Self-Management For People Living With HIV/AIDS
Michelle Odlum1, Kathleen Hickey1, Mary Bryne1, Niurka Suero-Tejeda1, Suzanne Bakken1, 1Columbia University, New York, NY, USA

22  Racial and Genetic Barriers to Pain Management
Mallory Perry1, Angela Starkweather1, 1University of Connecticut, Storrs, CT, USA

23  Is There A Relationship Between The PNPLA3 (Rs738409)-G Allele And Comorbid Conditions Of NAFLD?
Lori Houghton-Rahrig1, 1Grand Valley State University, Grand Rapids, MI, USA

24  Acculturation of Mexican Immigrants and the Prevalence of NAFLD: A Review
Lori Houghton-Rahrig1, Claudia Rivera-Salas1, 1Grand Valley State University, Grand Rapids, MI, USA

25  Peer Navigation Benefits People Affected By Hereditary Cancers
Lisa Schlager1, Lisa Rezende1, Sue Friedman1, Sandra Cohen1, Diane Rose1, 1FORCE: Facing Our Risk of Cancer Empowered, Tampa, FL, USA

26  The National Xeroderma Pigmentosum Service
Sally Turner1, Tanya Henshaw1, 1Guys’ and St Thomas’ NHS Foundation Trust, London, UK

27  Development Of A Support Program To Assist Hereditary Cancer Patients’ Communication About Genetic Risk Information To Family Members
Mihoko Kakuta1, Keiko Tsuji2, Reiko Yokomakura3, Mitsue Simizu4, Yukiko Osanai5, Kazumi Takahashi6, Michiko Mizoguchi7, Suuichiro Izumi8, Kiwamu Akagi9, 1Saitama Cancer Center, Division of Molecular Diagnosis and Cancer Prevention, Kitaadachi-gun, Saitama, Japan, 2Keio University, Faculty of Nursing and Medical Care, Fujisawa City, Kanagawa, Japan, 3Aichi Kiwami College of Nursing, Ichinomiya City, Aichi, Japan, 4Tokai University, School of Medicine Department of Obstetrics and Gynecology, Isehara City, Kanagawa, Japan, 5Saitama Cancer Center, Department of Nursing, Kitaadachi-gun, Saitama, Japan

28  Development Of A Support Program To Determine In Consultation With Nurses Whether Cancer Patients Should Undergo Genetic Testing Or Not
Mihoko Kakuta1, Keiko Tsuji2, Reiko Yokomakura3, Mitsue Simizu4, Yukiko Osanai5, Kazumi Takahashi6, Michiko Mizoguchi7, Suuichiro Izumi8, Kiwamu Akagi9, 1Saitama Cancer Center, Division of Molecular Diagnosis and Cancer Prevention, Kitaadachi-gun, Saitama, Japan, 2Keio University, Faculty of Nursing and Medical Care, Fujisawa City, Kanagawa, Japan, 3Aichi Kiwami College of Nursing, Ichinomiya City, Aichi, Japan, 4Tokai University, School of Medicine Department of Obstetrics and Gynecology, Isehara City, Kanagawa, Japan, 5Saitama Cancer Center, Department of Nursing, Kitaadachi-gun, Saitama, Japan
The presentation of the latest research is an essential feature of the ACMG Annual Clinical Genetics Meeting, and genetics professionals (ACMG members and non-members) are encouraged to submit abstracts for presentation. Abstracts may be accepted for poster presentation or platform presentation. All abstracts must be submitted online. Submission opens in October 2017 and the submission deadline is December 8, 2017.

Register early and SAVE!

Registration Deadlines:
- Early Bird: January 5, 2018
- Advance: March 2, 2018
- Hotel Reservations: March 12, 2018

Detailed session, speaker, registration, hotel and abstract submission information will be available at [www.acmgmeeting.net](http://www.acmgmeeting.net) in October 2017.

ACMG returns to Charlotte in 2018, one of the most popular past destinations.

The ACMG Annual Clinical Genetics Meeting is the premier educational event for professionals in the field of medical and clinical genetics and genomics. From daily General Sessions, Workshops, TED-Style Talks, Case Based Sessions, Platform Presentations and Short Courses, the 2018 ACMG has something for everyone on the genetics team.

### Program Highlights

**SHORT COURSES:** Tuesday, April 10
12:30 p.m. – 5:30 p.m.
- Bringing Personalized Genomic Medicine to Prenatal Care
- Authorization for Genetic Testing: A Primer for Genetics Professionals
- Variant Interpretation from the Clinician Perspective

**GENERAL SESSIONS**
- Presidential Plenary – Harnessing the Power of Us All – An Interactive Plenary
- Are We Barriers or Necessary Mediators?
- The Power of Patient No. 1
- The Hype, the Hope and the Reality of the Future of Genomic Medicine
- TED-Style Talks
- Featured Platforms
- 49th Annual March of Dimes Clinical Genetics Conference – Neural Tube Defects: Closing the Gap in Knowledge
- Closing Scientific Session: Hot Topics in Neurogenetic Conditions Across the Lifespan

**WORKSHOPS AND INTERACTIVE SESSIONS**
- Fellow/Trainee Workshop – Writing Your Manuscript: Practical Tips on How to Get Published
- Next Generation Education: A Workshop on Interactive Educational Design
- Recontacting Patients: Technological Advances, Ethical and Practical Questions

**SCIENTIFIC SESSIONS**
A sampling of the many scientific sessions that will present the latest developments and research in the field:
- Topics in Perinatal Genetics
- Creating Quality and Consistency in Variant Interpretation
- Navigating the Tension Between Research and Clinical Testing
- Implementation of Medical Genomics Across the Healthcare Continuum: Lessons from Clinical Cancer Genetics
- Update on Advances and Dispelling Myths about Sex Chromosome Disorders (SCD)
- Heritable Cancer: A Realm of Evolving Understanding and Clinical Implications

**Returning Favorite Topics**
- Hot Topics in Genetics and Genomics
- Cardinal Signs of Selected Genetic Conditions
- Pediatric Diagnostic Dilemmas (Rare Knowns and Unknowns)
- Diagnostic Challenges – Adult and Cancer, Prenatal and Laboratory Case Based Sessions

### Exhibit Hall

- Over 150 exhibitors
- Learning Lounges
- Poster Presentations
- Exhibit Theaters

Sponsored by the American College of Medical Genetics and Genomics

**ACMG**

American College of Medical Genetics and Genomics

*Establishing genetic insight*
ISONG acknowledges the generosity and support:

An educational grant was provided by Amicus Therapeutics to support the 2017 ISONG Congress.

ISONG Nursing Research Grant Awards
The support received from these sponsors will provide for ISONG Nursing Research Grant Awards. With the additional contributions from ISONG members who donated to the Nursing Research Donations Campaign to support their fellow members, an additional grant will be awarded this year! These grants will be awarded at the Congress. Visit isong.org for more information on the grant program.

Exhibits
Sponsorship of the ISONG Congress helps to support this premier educational opportunity for nurses in genetics/genomics worldwide.