Join Us
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 invite you to be part of this year’s Congress, an exciting opportunity to network with both new and old colleagues in Reston, Virginia. The venue is located near Washington DC, affording attendees the opportunity to visit the nation’s capital while expanding their knowledge of precision genetic health care.

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
Mary Quinn Griffin, PhD, RN, FAAN, ANEF
Michael Groves, PhD, RN, CNE
Lynnette Howington, DNP, RNC, WHNP-BC, CNL
Kathi Huddleston, PhD, RN, CCRC
Elisabeth Klein, DNP, CCRP, CNS, RNC
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
Conference Venue
We are delighted to announce that the 2017 ISONG World Congress on Nursing and Genomics will be held in Reston, Virginia USA.

Reston, Virginia is conveniently located approximately 35 minutes outside of Washington D.C. This allows for an ideal starting point for exploring Washington DC and fascinating Virginia, as well. Discover history, enjoy shows at Wolf Trap or Patriot Center, tour the wine country, shop, walk or bike on the Old Dominon Trails or wander through the newest Smithsonian Museum, The Udvar-Hazy Center in Chantilly, Virginia. The Udvar-Hazy Center is the companion facility to the Smithsonian Museum on the National Mall in Washington, DC and lists some of the World's most significant objects in aviation and space history. The Center also offers the Donald D. Engen Observation Tower, which gives you a 360-degree bird's-eye view of Washington Dulles International Airport and the surrounding area.

Hotel and Travel Details
The Hyatt Regency Reston Hotel will serve as the host hotel for the 2017 ISONG Congress. Conde Nast Traveler Magazine has named this Four-Diamond Reston hotel a Readers Choice Top 100 Hotel in the United States. This luxury hotel offers a full range of services and amenities, a heated indoor pool, a sun deck and oversize elegantly appointed guestrooms.

The hotel is located in Reston Town Center. Reston Town Center is a lovely community destination, offering an acclaimed outdoor venue, more than 50 shops, 35 restaurants and an 11-screen cinema all within walking distance of the hotel. The center's hub features the 20-foot Mercury Fountain designed by the sculptor Saint Clair Cemin and the Pavilion hosts festivals throughout the year. Reston Town Center is home to The Northern Virginia Fine Arts Festival, Taste of Reston. From the hotel, guests can access the Old Dominon Trails by walking across the street.

**Host Hotel**
Hyatt Regency Reston
1800 Presidents Street
Reston, Virginia 20190 USA
Phone: +1 703-709-1234

The ISONG Congress group room rates are as follows:
$179 Single/ Double plus taxes

The hotel offers a complimentary shuttle to/from the Dulles Airport. (see airport travel for the details.)

**All room reservations must be made by October 11, 2017 to ensure that you get the discounted group room rate. It is recommended that you make your reservation as soon as possible.**

**Hotel Parking**
The Hyatt Regency Reston offers valet parking or self parking options.
Valet Parking Cost:
Daily - $20.00 / Overnight - $25.00
Self-Parking Cost:
Daily - $18.00 / Overnight - $15.00

**Airport Travel Options**
**Dulles International Airport (IAD)**
Located 6.7 miles from Hyatt Regency Reston. The Hyatt Regency Reston offers a complimentary shuttle that arrives at Dulles Airport at the top of each hour between 6am-10pm Monday through Friday and 7am-10pm on Saturday & Sunday. The pick-up and drop-off point will be at curbs 2A and 2H, adjacent to the lower level baggage claim level. Return shuttle transportation from the hotel departs on the :45 beginning at 5:45am Monday-Friday and 6:45am Saturday & Sunday. For more information please contact the hotel concierge at 1 (703) 709-1234 x51.

**Ronald Reagan Washington National Airport (DCA)**
Located 23.8 Miles from Hyatt Regency Reston. Super Shuttle service is available for approx $27 each way. For information or reservations call 800-BLUE-VAN or book online. Taxi fare is approx $50 to $60 depending on traffic. Additional options include the METROs Blue or Yellow Line to Silver Line.
Welcome Reception
We would like to invite all ISONG Congress to the Welcome Reception on Thursday evening, November 2 from 7-9PM. It is a great way to kick off our annual meeting and to connect with new and old friends!

Invited Speakers Session
The Invited Speakers listed in the program were recognized by members of the ISONG Congress Planning Committee as experts in their field of research and genetics and were invited to share their knowledge with the attendees.

Donate A Raffle Item
Please consider making a donation to the ISONG raffle. The ISONG raffle is always a highly anticipated event at the annual Congress! Our members hail from all over the world and we usually have an array of unique items. Bring something from your hometown, country, hospital/academic institution or a cultural item. Make sure that your item will travel well – meaning it is compact, lightweight, and can be easily transported in a suitcase. If you prefer, you can support the raffle through a monetary donation (the Congress Committee will purchase items with the donations for the raffle.) Click here to make a monetary donation. Please direct any questions to ISONG Raffle Committee chair Sylvia Estrada at estradas@cshs.org. Be a part of the raffle prize drawing on Friday at 5PM - it will be lively!

ISONG Awards and Grants
Fostering scientific research in genetics is an important part of ISONG's mission. The support received from our sponsors will provide for ISONG Nursing Research Grant Awards. With the contributions from ISONG members who donated to the Nursing Research Donations Campaign to support their fellow members, an additional grant will be offered this year. These grants as well as the Founders Awards and President's Award will be presented during the lunch program on Saturday.

Abstract Sessions/Scientific Posters/Poster Blitz Session
The 2017 Abstract Sessions reflect a focus on the titles as listed and offer current and late breaking information in Genetics/Genomics. Abstracts that were accepted for poster presentations will have their posters displayed throughout the Congress and due to popular demand the “Poster Blitz” session is once again featured in the program. This session provides select poster presenters with the opportunity to orally present their work to Congress attendees with a brief overview of their work in addition to presenting at the traditional poster session. The Poster Session and Reception will immediately follow the Poster Blitz to provide the attendees dedicated time to meet with the poster authors.

Congress Registration
Register early to secure your spot and to take advantage of the early registration discounted rate.

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<tr>
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<th>Before September 5</th>
<th>After September 5</th>
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<tbody>
<tr>
<td>ISONG active dues member</td>
<td>$495.00</td>
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<td>Podium / Abstract Presenter</td>
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<tr>
<td><em>Non-member</em></td>
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<td>Full-time students</td>
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(With copy of University/Program ID card)

*Non-members – Join now for membership benefits and take advantage of the reduced Congress registration fees. Click here to join ISONG.

For payment by check – after you register online, please print the registration form or invoice and mail the payment to: ISONG, 461 Cochran Road, Box 246, Pittsburgh, PA 15228 USA.

You will receive a confirmation from ISONG after you have registered. If you have any questions, please call us at +1 412-344-1414, or contact us via email at: linda@isong.org. All cancellations must be received in writing. A $50.00 USD administrative fee will be deducted from cancellations received up to 14 days in advance. After that time, no refunds can be made.
## Congress Program Agenda

### Thursday, November 2, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>4:00PM – 8:00PM</td>
<td>Congress Registration</td>
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<tr>
<td>7:00PM – 9:00PM</td>
<td>Welcome Reception</td>
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### Friday, November 3, 2017

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30AM – 5:00PM</td>
<td>Congress Registration</td>
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<tr>
<td>7:30AM – 8:30AM</td>
<td>Coffee, Tea / Visit Exhibits, Posters and Raffle</td>
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<tr>
<td>8:30AM – 8:45AM</td>
<td>President’s Welcome and Opening Remarks</td>
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<tr>
<td></td>
<td>Elizabeth L. Pestka, MS, PMHCNS-BC, AGN-BC</td>
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<td>ISONG President</td>
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<td></td>
<td>Clinical Nurse Specialist</td>
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<td>Pain Rehab Center</td>
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<td>Assistant Professor of Nursing</td>
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<td>Mayo Clinic</td>
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<td>Rochester, Minnesota USA</td>
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8:45AM – 9:45AM     | Opening Keynote Presentation - Prenatal Genome Sequencing             |
|                    | Benjamin E. Berkman, JD, MPH                                          |
|                    | Deputy Director                                                       |
|                    | NHGRI (National Human Genome Research Institute)                     |
|                    | National Institutes of Health                                         |
|                    | Bethesda, Maryland USA                                                |

8:45AM – 9:45AM     | Opening Keynote Presentation - Prenatal Genome Sequencing             |
|                    | 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 provide this learning activity. Contact hours are being determined and will be posted prior to the learning activity. 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.
### Friday, November 3, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Abstract Sessions</th>
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<tbody>
<tr>
<td>9:45AM – 10:45AM</td>
<td><strong>Clinical Practice</strong>&lt;br&gt;Family Health History In Primary Care: A Critical Analysis Of Available Tools&lt;br&gt;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</td>
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<td><strong>Research</strong>&lt;br&gt;Suffering In The Midst Of Technology: Routine Prenatal Ultrasound Screening to Turbulent Congenital, Chromosome or Genetic Disorder Results&lt;br&gt;Jeanne Gottlieb1, 1University of Southern Maine, Portland, ME, USA</td>
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<td><strong>Research</strong>&lt;br&gt;A Novel Hypomethylator Phenotype Unique to Basal-like Breast Cancer: Implications for Epigenetically Based Interventions&lt;br&gt;Theresa Swift-Scanlan1, Mikhail Dozmorov1, 1Virginia Commonwealth University, Richmond VA, USA</td>
</tr>
<tr>
<td>10:00AM – 10:15AM</td>
<td><strong>Standards of Practice: Living in the Real World</strong>&lt;br&gt;Alice Kerber1, Nancy Ledbetter2, Suzanne Mahon3, 2Georgia Center for Oncology Research and Education, Atlanta, Georgia, USA, 2Portland Wellness Center, Portland, Oregon, USA, 3Saint Louis University, St. Louis, MO, USA</td>
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<td><strong>Research</strong>&lt;br&gt;Antibiotic Exposure During Pregnancy Effects Offspring Microbial Colonization: Bad Bugs Bloom&lt;br&gt;Stephanie Prescott1, Ernesto Perez-Chanona2, Wendy Henderson1, Giorgio Trinchieri3, 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</td>
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<td><strong>Research</strong>&lt;br&gt;Genetic Characterization of Families from a Hereditary Cancer Registry in Brazil&lt;br&gt;Erika Santos1, Caroline Sá1, Bernardo Garicocha1, Maria Del Pilar Diz2, Renata Coudry3, Edite Oliveira1, Benedito Rossi1, 1Hospital Sirio-Libanes, Sao Paulo, Brazil</td>
</tr>
<tr>
<td>10:15AM – 10:30AM</td>
<td><strong>A Toolbox Approach to Guide Ethical Decision-Making in Genetics and Genomic Nursing</strong>&lt;br&gt;Mary Beth Steck1, 2Clemson University, Clemson, SC, USA</td>
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<tr>
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<td><strong>Research</strong>&lt;br&gt;Breast Milk Microbiota Profiles Among Mothers With Preterm Infants: A Review of the Literature&lt;br&gt;Kelley Baumgartel1, Michael Morowitz2, 1University of Pittsburgh, School of Nursing, Pittsburgh, PA, USA, 2University of Pittsburgh, School of Medicine, Pittsburgh, PA, USA</td>
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<td></td>
<td><strong>Research</strong>&lt;br&gt;A Model Of The Childhood Lymphoma Implicates Important Prognostic Genes In Cancer Survival&lt;br&gt;Rieko Sotojima1, Joelle Fenger2, William Kisseberth3, Jennie Rowell4, 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</td>
</tr>
<tr>
<td>10:30AM – 10:45AM</td>
<td><strong>An Initiative to Mentor Nurses</strong>&lt;br&gt;Susan Montgomery1, Tammy McKamey1, 2Fox Chase Cancer Center, Philadelphia, PA, USA, 2W. Temple Webber Cancer Center, Texarkana, TX, USA</td>
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<tr>
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<td><strong>Research</strong>&lt;br&gt;Primary Care Nurse Practitioners’ Knowledge and Experience Regarding the Management of Presumptive Positive Results of the Kentucky Mandated Newborn Screening Program&lt;br&gt;Delwin Jacoby1, Angela Crutcher2, 1Spalding University, Louisville, KY, USA, 2University of Kentucky, Lexington, KY, USA</td>
</tr>
<tr>
<td></td>
<td><strong>Development Of An Interactive Pharmacogenomic Education Module: Comparison Of Oncology Nurses’ Knowledge And Attitudes Within Teaching And Community Hospitals.</strong>&lt;br&gt;Crissy Dodson1, 1University of North Carolina at Wilmington, Wilmington, NC, USA</td>
</tr>
</tbody>
</table>

### Refreshment Break/ Visit Exhibits, Posters and Raffle

#### 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.
### Friday, November 3, 2017 (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Clinical Practice</th>
<th>Research</th>
<th>Education</th>
</tr>
</thead>
</table>
| 11:15AM – 12:15PM   | **Abstract Sessions**                                                              | **Clinical Utility Of Rapid Genomic Sequencing In The Neonatal And Pediatric Intensive Care Units: What Nurses Need To Know**
Julie Cakici¹, Stephen Kingsmore¹,
David Dimmock², Sara Caylor³, ¹Rady Children's Institute for Genomic Medicine,
San Diego, CA, USA

**A Novel Approach to Genotype-phenotype Profiling for Ryanodine Receptor 1-related Myopathies**
Katherine Meilleur¹, Monique Shelton¹,
Jessica Witherspoon¹, Carolyn Allen¹, M.
Sonia Razaqyar², Michaela Cortes³, Irene
Chrismer¹, ³National Institute of Nursing
Research, Bethesda, MD, USA

**A Review of the Literature on the Relationships Between Genetic Polymorphisms and Chemotherapy–Induced Nausea and Vomiting**
Komal Singh¹, Elena Flowers¹, Kord
Kober², Anand Dhruba³, Christine
Miaskowski³, ³University of California
San Francisco, San Francisco, CA, USA |

| 11:15AM – 12:15PM   | **Abstract Sessions**                                                              | **Educational Needs of Nurses to Provide Genetic Services in Prenatal Care: A Cross Sectional Study from Turkey**
Memnun Seven¹, Kafiye Eroglu¹, Aygül
Akyüz², Charlotte Ingvalstad³, ¹Koç
University, Istanbul, Turkey, ²Karolinska
Institute, Stockholm, Sweden

**Factors Associated With Family Communication About Genetic Risk for Inherited Cardiac Conditions**
Lisa Shah¹, ¹University of Iowa, Iowa City,
IA, USA

**XRAYS: Unconfuse The News For Young Breast Cancer Survivors and Those At High Risk Of Breast Cancer**
Lisa Schlager¹, Lisa Rezende¹, Sue
Friedman¹, Julie Huynh¹, Robin Pugh-Yi¹, ¹FORCE: Facing Our Risk Of Cancer Empowered, Tampa, FL, USA |

| 11:15AM – 12:15PM   | **Abstract Sessions**                                                              | **Utilization of and Women Educational Needs for Prenatal Screening tests: A Turkish study**
Memnun Seven¹, Aygül Akyüz¹, Kafiye
Eroglu², Sandra Daack-Hirsch², Heather
Skirton³, ¹Koç University, Istanbul,
Turkey, ²The University of Iowa College
of Nursing, Iowa, USA, ³Plymouth
University, Plymouth, UK

**The Importance of Coronary Heart Disease Family History for Triage Evaluation of Patients With ST Elevation Myocardial Infarction in the Emergency Department**
Efrat Dagan¹, Mor Saban¹, Rabia Salame²,
Aziz Darawsha³, ¹University of Haifa,
Haifa, Israel, ²Rambam Health Care
Campus, Haifa, Israel |

**Assessment Of Genomic Knowledge Among Nurses In An Online RN To BSN Completion Program**
Lisa Aiello¹, ²Drexel University,
Philadelphia, PA, USA, ²Villanova
University, Villanova, PA, USA |

<table>
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<tr>
<th>12:00PM – 1:45PM</th>
<th><strong>Lunch / Networking and ISONG Committee Meetings</strong></th>
<th>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!</th>
<th></th>
</tr>
</thead>
</table>
| 1:45PM – 2:30PM     | **Keynote Presentation - The Ethics in Research**                                  | David S. Wendler, MA, PhD
Head, Section on Research Ethics
Department of Bioethics
Clinical Center
National Institutes of Health
Bethesda, Maryland USA                                                                                                                                                                                                                                                                                                           |
Friday, November 3, 2017 (continued)

2:30PM – 3:00PM  Refreshment Break / Visit Exhibits, Posters and Raffle

3:00PM – 4:00PM  Invited Speakers

<table>
<thead>
<tr>
<th>Global Genetics Nursing Alliance – Creating a Roadmap</th>
<th>Genetic Testing for Hereditary Cancer Syndromes: A Foreign Language or The Way of the Future?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kathleen Calzone, PhD, RN, APNG, FAAN</td>
<td>Tammy McKamie, RN, MSN, OCN, GCN</td>
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<tr>
<td>Research Geneticist</td>
<td>Genetic Clinical Nurse/ Educator</td>
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<tr>
<td>National Cancer Institute</td>
<td>Christus St. Michael Cancer Treatment Center</td>
</tr>
<tr>
<td>Bethesda, Maryland USA</td>
<td>Texarkana, Texas USA</td>
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</tbody>
</table>

Maggie Kirk, PhD, BSc Hons, DipN, RGN, FRCN, SFHEA
Professor of Genetics Education
University of South Wales
Glyntaff, Wales, UK

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<tr>
<th>Promising Strategies for Genomic Nursing Education</th>
<th>Epigenomic Biomarkers in Preeclampsia</th>
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</thead>
<tbody>
<tr>
<td>Linda D Ward, PhD, ARNP</td>
<td>Cindy Anderson, PhD, CRNP, WHNP-BC, FNAP, FAHA, FAAN</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>Associate Dean for Academic Affairs and Educational Innovation</td>
</tr>
<tr>
<td>College of Nursing</td>
<td>College of Nursing</td>
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<tr>
<td>Washington State University</td>
<td>The Ohio State University</td>
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<tr>
<td>Spokane, Washington USA</td>
<td>Columbus, Ohio USA</td>
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</tbody>
</table>

4:00PM – 5:00PM  Poster Blitz Oral Presentations

4:45PM – 5:45PM  Poster Reception

5:45PM – 6:30PM  Fireside Chat

Exhibits
Please visit and support our sponsors and exhibitors in the exhibit hall during the Congress. Sponsorship of the annual Congress helps to support this premier educational opportunity and the ISONG Research Grants awarded for nurses in genetics/genomics worldwide.
### Saturday, November 4, 2017

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:45AM – 5:00PM</td>
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<td>Coffee, Tea / Visit Exhibits, Posters and Raffle</td>
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<tr>
<td>8:45AM – 9:00AM</td>
<td>Announcements</td>
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<tr>
<td>9:00AM – 9:45AM</td>
<td><strong>Keynote Presentation – State of the Science in Genomic Nursing</strong></td>
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<tr>
<td></td>
<td><em>Patricia A. Grady, PhD, RN, FAAN</em></td>
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<tr>
<td></td>
<td>Director</td>
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<td></td>
<td>National Institute of Nursing Research</td>
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<td>National Institutes of Health</td>
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<td>Bethesda, Maryland USA</td>
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<tr>
<td>9:45AM – 10:30AM</td>
<td><strong>P30 Grant Panel</strong></td>
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<td><strong>Precision in Symptom Self-Management (PriSSM): Looking Through a Nursing</strong></td>
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<td><strong>Lens for the Future</strong></td>
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<td><em>Kathleen T. Hickey, EdD, FNP, ANP, FAHA, FAAN</em></td>
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<tr>
<td></td>
<td>Associate Professor</td>
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<td>School of Nursing</td>
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<td>Columbia University</td>
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<td>Nurse Practitioner</td>
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<td>Division of Cardiology</td>
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<td>Columbia University</td>
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<td>New York, New York USA</td>
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<td>10:30AM – 11:00AM</td>
<td><strong>Towards Oncology Precision Symptom Science: Phenotype-Omics Association</strong></td>
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<td><strong>Studies in Clinically Relevant Animal Models</strong></td>
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<td><em>Susan G. Dorsey, PhD, RN, FAAN</em></td>
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<td></td>
<td>Professor of Nursing</td>
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<td></td>
<td>Chair, Department of Pain and Translational Symptom Science</td>
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<td>Co-Director</td>
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<td>UM Center to Advance Chronic Pain Research</td>
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<td></td>
<td>University of Maryland Baltimore</td>
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<td></td>
<td>Baltimore, Maryland USA</td>
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<td></td>
<td><strong>Achieving Precision Pain Management Through Nursing Research: A Trajectory to the Bull’s-Eye</strong></td>
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<td><em>Angela Starkweather, PhD, ACNP-BC, CNRN, FAAN</em></td>
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<td></td>
<td>Director</td>
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<td></td>
<td>Center for Advancement in Managing Pain</td>
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<td></td>
<td>Professor</td>
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<td></td>
<td>University of Connecticut</td>
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<td></td>
<td>Storrs, Connecticut USA</td>
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<tr>
<td>10:30AM – 11:00AM</td>
<td>Refreshment Break / Visit Exhibits, Posters and Raffle</td>
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### Saturday, November 4, 2017 (continued)

#### 11:00AM – 12:00PM
**Abstract Sessions**

<table>
<thead>
<tr>
<th>Clinical Practice</th>
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<th>Education</th>
</tr>
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</table>
| **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 Ashley2, Sharlene Day3, Sara Saberi2, Adam Helms4, John Meyers5, John Herrera6, Suwen Kumar7, Yael Schmargad8, Annika Dries9, Matthew Wheeler10, Maryann Concannon11, Anil Attili12, Prachi Agarwal12, Whitney Hornsby12, Jennifer Bragg-Gresham12,  
*'Stanford Health Care, Palo Alto, CA, USA, 'University of Michigan, Ann Arbor, MI, USA*  
| **Revision Of The Genomic Nursing Concept Inventory**  
Linda D. Ward1,  
*Washington State University, Spokane, WA, USA*  

**11:00AM – 11:15AM**

**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 Ashley2, Sharlene Day3, Sara Saberi2, Adam Helms4, John Meyers5, John Herrera6, Suwen Kumar7, Yael Schmargad8, Annika Dries9, Matthew Wheeler10, Maryann Concannon11, Anil Attili12, Prachi Agarwal12, Whitney Hornsby12, Jennifer Bragg-Gresham12,  
*‘Stanford Health Care, Palo Alto, CA, USA, ‘University of Michigan, Ann Arbor, MI, USA*  

**11:15AM – 11:30AM**

**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 Ribeiro3, Bruna Tavares Bacalá4, Ana Paula Torres5, Alan Assunção6, Jennifer Thalita Targino dos Santos7,  
*University of São Paulo at Ribeirão Preto College of Nursing, Ribeirão Preto, São Paulo, Brazil, ‘Cardiff 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 Ryzin8, Susan Ferry1,  
*NIH/NHGRI, Bethesda, MD, USA*  

**11:30AM – 11:45AM**

**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 Weisser2, Neil Matthiesen3, Trisha Lauterbach4, Melissa Black5, Noah Kallsen6, Sandy Crisp7, David Basal8, Krista Bohlen1,  
*Avera Institute for Human Genetics, Sioux Falls, USA, ‘University of South Dakota, Sanford School of Medicine, Department of Psychiatry, Sioux Falls, SD, USA, ‘Avera Health, Care Coordination program, Sioux Falls, SD, USA*  

**11:45AM – 12:00PM**

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

**Evaluating the Practicality of Clinic-Wide Utilization of a Psychotropic Assay**  
Katie Halmbeier1, Virginia Conley2,  
*University of Iowa College of Nursing, Iowa City, Iowa, USA, ‘Eyerly Ball, Des Moines, IA, 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!
### Saturday, November 4, 2017 (continued)

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<td>2:00PM – 2:15PM</td>
<td>ICU Delirium And Changes In IL6ST Methylation.</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>
<td>Measuring Meaningful Learning Through Longitudinal Tracking Of Genomic Knowledge</td>
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<td>Sheila Alexander1, Bryan McVerry1, Scott Gunn1, Yvette Conley1, Dianxu Ren1, University of Pittsburgh, Pittsburgh, PA, USA</td>
<td>Kathi Huddleston1, Elisabeth Klein1, Varsha Deopujari1, Suchitra Hourigan1, Inova Translational Medicine Institute, Falls Church, VA, USA, Pediatric Specialists of Virginia, Fairfax, VA, USA</td>
<td>Linda D. Ward1, Lynn Jinishian1, Washington State University, Spokane, WA, USA</td>
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<td>DNA Methylation Hints at Biological Mechanisms in the Critically Ill Patient: A Pilot Study</td>
<td>Up to Date: Ankyloglossia and Maxillary Lip-ties</td>
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<td>Jennie Rowell1, Judy Tate1, Michele Balas1, Matthew Exline1, Linda Chlan1, Pearlly Yan1, Jackson Killian1, Mary Beth Happ1, Chi Song1, Guy Brock1, Ralf Bundschuh1, The Ohio State University, Columbus, OH, USA</td>
<td>Kathi Huddleston1, Elisabeth Klein1, Varsha Deopujari1, Suchitra Hourigan1, Inova Translational Medicine Institute, Falls Church, VA, USA, Pediatric Specialists of Virginia, Fairfax, VA, USA</td>
<td>Emily Hopkins1, Chatham University, Pittsburgh, PA, USA</td>
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<td>2:30PM – 3:00PM</td>
<td>Understanding Parental Refusal To Enroll Their Children In A Genomic Sequencing Research Study</td>
<td>Factors Affecting Recruitment And Consent To Biological Specimen Banking In An Observational Cohort Study Of Pregnant Women</td>
<td>Gene Expression Patterns and Measurement of Gene Expression Changes</td>
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<td>Annastasia Ouma1, Stacy Hines-Dowell1, Kayla Hamilton1, Lynn Harrison1, Elsie Gerhardt1, Victoria Liddle1, Rose McGee1, Regina Nuccio1, Emily Quinn1, Jessica Valdez1, Chimene Kesserwan1, Kim Nichols1, St. Jude Childrens Research Hospital, Memphis TN, USA</td>
<td>Shannon Gillespie1, Cindy Anderson1, The Ohio State University, Columbus, OH, USA</td>
<td>Komal Singh1, Christine Miaskowski1, Elena Flowers1, Anand Dhruva1, Kord Kober1, University of California San Francisco, San Francisco, CA, USA</td>
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<td>3:00PM – 3:15PM</td>
<td>DNA Methylation Associated with Early Neurodevelopment in Preterm Infants</td>
<td>Relationship Between Psychosocial Distress In Pregnancy And Two Genes Associated With Human Social Interaction</td>
<td>Keeping Pace With Genetics: An Educational Program on Prenatal Cell-free DNA Screening for Obstetricians.</td>
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<td>Rita Pickler2, Cindy Anderson2, Maciej Pietrzak2, Joyce Ohm1, Roswell Park Cancer Institute, Rochester, NY, USA, The Ohio State University, Columbus, OH, USA</td>
<td>Sarah Dewell1, Donna Slater1, Karen Benzies1, Sheila McDonald1, Suzanne Tough1, University of California, Calgary, AB, Canada</td>
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<td>Diet Status and DNA Methylation in Endothelial Dysfunction: A Pilot Study</td>
<td>Pairing Pedagogical and Genomic Advances to Prepare APNs for the Era of Precision Health</td>
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<td>Shannon Gillespie1, Cindy Anderson1, The Ohio State University, Columbus, OH, USA, Magee-Womens Research Institute and Foundation, Pittsburgh, PA, USA</td>
<td>Cindy Anderson1, Shannon Gillespie1, Danielle Perley1, Joyce Ohm1, The Ohio State University, Columbus, OH, USA, University of North Dakota, Grand Forks, ND, USA, Roswell Park Cancer Institute, Buffalo, NY, USA</td>
<td>Elena Flowers1, Hamza Abid1, Sasha Binford1, Meg Martin1, Lynda Mackin1, University of California, San Francisco, CA, USA</td>
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**Refreshment Break / Visit Exhibits, Posters and Raffle**
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| 3:45PM – 4:00PM | **Moderate Blast Exposure Alters Peripheral Concentrations of Proteins Related to Neurodegeneration**  
Nicole Osier1, Jessica Gill1, Katie Edwards1, Kristine C. Dell1, Walter Carr1, Peter Walker1, Steven Ahlers1, Matthew LoPresti1, Angela Yarnell2,  
1National Institutes of Health, National Institute of Nursing Research, Bethesda, MD, USA, 2Fort Detrick, MD, USA, 3Naval Medical Research Center, Silver Spring, MD, USA |
| 4:00PM – 4:15PM | **OMICS Nursing Science and Education Network (ONSEN)**  
Kathleen Calzone1, Ann Cashion2, Lois Tully3, Jean Jenkins3,  
1National Institutes of Health, National Cancer Institute, Bethesda, MD, USA, 2National Institutes of Health, National Institute of Nursing Research, Bethesda, MD, USA, 3National Institutes of Health, National Human Genome Research Institute, Bethesda, MD, USA |
| 4:15PM – 4:30PM | **Genetic Risk Factors of the Transition from Acute to Chronic Pain**  
Angela Starkweather1, Divya Ramesh1, Mallory Perry1, Thomas Julian1, Katherine Bernier1, Debra Lyon1, Susan Dorsey1, Kyle Baumbauer1, Erin Young1,  
1University of Connecticut, Storrs, CT, USA, 2University of Maryland, Baltimore, MD, USA, 3University of Florida, Gainesville, FL, USA |
| 4:30PM – 4:45PM | **Neurobiological Mechanisms Of Chemobrain: A Feasibility Study Using An Animal Model**  
Grace Lawrence1, Kyeung Mi Oh1, Margaret Rodan1, Theodore Dumas1, Virginia Espina1,  
1George Mason University, Fairfax, VA, USA, 2INOVA, Falls Church, VA, USA |
| 4:45PM – 5:00PM | **Clinical Documentation Of Genetic Counseling-related Emotional Distress In Electronic Health Record Narratives**  
Theresa Kolec1, Suzanne Bakken1, Kathleen Hickey1, Nicholas Tatonetti1,  
1Columbia University, New York, NY, USA |
| 5:00PM – 5:30PM | **HLA-Matched Adult Sibling Donor Allogeneic Hematopoietic Stem Cell Transplantation (AlloHSCT) Experience and Health-related Quality of Life in Sickle Cell Disease (SCD)**  
Agatha Gallo1, Derrick McCoy1, Crystal Pat1i1, Lewis Hsu1, Molly McGown1,  
1University of Illinois at Chicago, Chicago, IL, USA, 2Northwestern University, Chicago, IL, USA |
| 5:00PM – 5:15PM | **Oxytocin Receptor (OXTR) and Vasopressin Receptor (AVPRA) Genes as Candidate Genes for Apathy in Persons with Alzheimer Disease**  
Emilie Goris1, Jamie Johnson1, Sarah Melby1, Alexandra Vroom1, Debra Schutte1,  
1Hope College, Holland, MI, USA, 2Wayne State University, Detroit, MI, USA |
| 5:15PM – 5:30PM | **Assessing Awareness and Integration of the Genetic Information Nondiscrimination Act of 2008 (GINA) Among Nurse Practitioner Faculty**  
Mary Steck1,  
1Clemson University, Clemson, SC, USA |
| 5:30PM – 5:45PM | **Identifying Gene Variants Associated With The Poor Absorption Of A Key Anti-inflammatory Nutrient Betacarotene: Implications For Healthcare**  
Bobby Laing1, Nishi Karunasinghe1, Lynnette Ferguson1,  
1University of Auckland, Auckland, New Zealand |
| 5:45PM – 5:44PM | **Altered Gene Expression Following Blast-Induced Traumatic Brain Injury in a Military Population**  
Katie Edwards1, Nicole Osier1, Vida Motamed1, Jessica Gill1,  
1National Institute of Nursing Research, National Institutes of Health, Bethesda, MD, USA |
| 5:44PM – 5:54PM | **Diabetes Education Is Associated with Improved Sleep Quality and Changes in Gene Methylation**  
Evelyn G. Bigin1, Eileen R. Chasens1, Yvette P. Conley1, Christopher C. Imes1,  
1University of Pittsburgh School of Nursing, Pittsburgh, PA, USA |
| 5:54PM – 5:55PM | **Lysozyme Association With Extracellular Vesicles And Circulating RNA**  
Sarah Abey1, Yuana Yuana1, Paule Joseph1, Natnael Kene1, Nicolaas Foutie1, LeeAnne Sherwin1, Gregory Gonye1, Paul Smyser1, Erin Stempinski1, Christina Boulineaux1, Kristen Weaver1, Christopher Bleck1, Wendy Henderson1,  
1Digestive Disorders Unit, Division of Intramural Research, National Institutes of Health, Department of Health and Human Services, Bethesda, MD, USA, 2Image Sciences Institute, Division of Imaging, University Medical Centre, Utrecht, Netherlands, Germany, 3NanoString Technologies, Seattle, WA, USA, 4The Pennsylvania State University, College of Medicine, Hershey, PA, USA, 5Electron Microscopy Core Facility, National Heart Lung Blood Institute, National Institutes of Health, Department of Health and Human Services, Bethesda, MD, USA |
| 5:55PM – 5:56PM | **Family Communication About Familial Risk Of Stroke Promotes Perceived Risk In Adult Offspring of Stroke Patients**  
Masakazu Nishigaki1, Mana Kawaguchi1, Maimi Fukumori1, Miyako Minoda1, Akiko Ota1,  
1Kyoto University, Kyoto, Japan, 2Brain Attack Center Ota Memorial Hospital, Fukuyama, Japan |
| 5:56PM – 5:57PM | **Developing A Pre-appointment Video To Prepare New Families For Genetics Clinic Visit**  
Andrea Hartgraves1, Tammy Fairbanks1,  
1Seattle Children's Hospital, Seattle, WA, USA |
| 5:57PM – 5:58PM | **A Complex Genetic Variant with Distinct Phenotype as a Model for Understanding Common-Complex Diseases**  
Elizabeth McNamara1, Jacob Bailey1, Carlos Alvarez2, Jennie Rowell1,  
1The Ohio State University College of Nursing, Columbus, OH, USA, 2The Ohio State University College of Medicine, Columbus, OH, USA |
Sunday, November 5, 2017

7:15AM – 12:00PM  Congress Registration

7:15AM – 8:00AM  Coffee, Tea / Visit Exhibits

8:00AM – 8:30AM  **Incoming President Address**  
  *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**  
  This panel will be an exciting overview from participant countries on genetic nursing in research, education and practice with the focus on precision nursing. Due to the popularity of this session, the presentation time has been increased for this year’s program.

9:30AM – 10:00AM  **Invited Speaker**  
  **Personalized Nursing**  
  *Allison A. Vorderstrasse, DNSc, APRN, FAAN*  
  Associate Professor  
  School of Nursing  
  Duke University  
  Durham, North Carolina USA

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

10:30AM – 11:00AM  **Invited Speaker**  
  **Pharmacogenomics Update**  
  *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**  
  *Sally Turner*  
  CNS in Xeroderma Pigmentosum, Children  
  St. John’s Institute of Dermatology  
  St. Thomas’ Hospital  
  London, United Kingdom

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

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

Cancer Risk Management Program and Advanced Nurse in Genetics Streamline Comprehensive Surveillance for Patients Most at Risk
Denise Musser1, Kristin Niendorf2, Mary Ahrens1, Olivia Michel1, Sarah Mets1, Alyssa Kne1, Rob Madoff1, 1University of Minnesota, Minneapolis, MN, USA

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

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

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

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

HAMP Gene Polymorphism and Patient Outcomes Following Aneurysmal Subarachnoid Hemorrhage
Lacey Wright Heinsberg1, Dianxu Ren1, Elizabeth Crago1, Paula Sherwood1, Samuel Poloyac1, Yvette Conley1, 1University of Pittsburgh School of Nursing, Pittsburgh, PA, USA, 2University of Pittsburgh School of Pharmacy, Pittsburgh, PA, USA

Development Of A Support Program To Assist Hereditary Cancer Patients’ Communication About Genetic Risk
Information To Family Members
Miho Kakuta1, Keiko Tsuji2, Reiko Yokomakura3, Mitsue Simizu2, Yukiko Osanai2, Kazumi Takahashi4, Michiko Mizoguchi5, Syunichi Izumi1, Kiwamu Akagi1, 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, 4Kokai University, School of Medicine Department of Obstetrics and Gynecology, Ichihara City, Kanagawa, Japan, 5Saitama Cancer Center, Department of Nursing, Kitaadachi-gun, Saitama, Japan

Decision-Making Regarding Prenatal Genetic Screening Among Pregnant Korean-American Women
Myunghee Jun1, Vipavee Thongpriwan2, Jeeyae Choi3, 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

Results of the NGS Analysis in Patients With Suspected Hereditary Colorectal Cancer Due to Family History
Erika Santos1, Carolina Sá1, Bernardo Garicochea1, Edite Oliveira1, Maria Del Pilar Diz1, Renata Coudry1, Benedito Rossi1, 1Hospital Sirio-Libanos, Sao Paulo, Brazil

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

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

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
Identification of DNA Methylation Markers Of Preterm Birth Risk Using Banked Whole Blood Specimens: Methodological Insights
Shannon Gillespie¹, Joyce Ohm², Cindy Anderson¹, ¹The Ohio State University, Columbus, OH, USA, ²Roswell Park Cancer Institute, Buffalo, NY, USA

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

An Innovative Interdisciplinary Doctoral Program for Nurses Focusing on Genetics and Genomics
Mary Beth Steck¹, Julia Eggert¹, ¹Clemson University, Clemson, SC, USA

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

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

Development Of A Support Program To Determine In Consultation With Nurses Whether Cancer Patients Should Undergo Genetic Testing Or Not
Miho Kakuta¹, Keiko Tsuji², Reiko Yokomakura³, Mitsue Simizu¹, Yukiko Osanai¹, Kazumi Takahashi⁴, Michiko Mizoguchi⁵, Syunichiro Izumi¹, Kiwamu Akagi¹, 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

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

Hereditary Cancer Knowledge of Honduran Healthcare Providers
Sylvia S. Estrada¹, ¹Cedars-Sinai Medical Center, Los Angeles, CA, USA

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 Starkweather¹, ¹Virginia Commonwealth University, Richmond, VA, USA, ²University of Connecticut, Storrs, CT, USA

Challenges To Precision Nursing And Whole Exome Sequencing
Katherine Burbank¹, ¹Mayo Clinic, Rochester, MN, USA

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

Associations Between Ancestry-informative Markers and Fatigue Self-Management For People Living With HIV/AIDS
Michelle Odlum¹, Kathleen Hickey², Mary Bryne³, Niurka Suero-Tejeda³, Suzanne Bakken¹, ¹Columbia University, New York, NY, USA

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

Connecting The Dots 2 - GeneSteam: Developing An Educational Module To Improve Nurses Knowledge Of Oncogenomics
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

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

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 Koleck², John Merriman¹, Susan Sereika¹, Catherine Bender¹, ¹University of Pittsburgh School of Nursing, Pittsburgh, PA, USA, ²Columbia University School of Nursing, New York, NY, USA
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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.

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