Danish University Colleges

National survey: Genetic Knowledge of Danish Nurses - Needs and Reality

Christiansen, Karin; Mikkelsen, Thomas Raundahl; Nissen, Kari Konstantin

Publication date:
2017

Document Version
Other version

Link to publication

Citation for published version (APA):
Precision Nursing: Through Research, Education and Practice

November 3-5, 2017
Hyatt Regency Reston
Reston, Virginia USA

Congress Brochure

International Society of Nurses in Genetics
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 Dominion 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 oversizely 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 Dominion Trails by walking across the street.

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.

Check in 3PM / Check out 11AM

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.)

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 (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 METRO's 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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<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

4:00PM – 8:00PM  Congress Registration

7:00PM – 9:00PM  Welcome Reception

Friday, November 3, 2017

7:30AM – 5:00PM  Congress Registration

7:30AM – 8:30AM  Coffee, Tea / Visit Exhibits, Posters and 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

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 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>9:45AM – 10:45AM</th>
<th><strong>Abstract Sessions</strong></th>
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<tr>
<td><strong>Clinical Practice</strong></td>
<td><strong>Research</strong></td>
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<tr>
<td><strong>Family Health History In Primary Care: A Critical Analysis Of Available Tools</strong>&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>
<td><strong>Suffering In The Midst Of Technology: Routine Prenatal Ultrasound Screening to Turbulent Congenital, Chromosome or Genetic Disorder Results</strong>&lt;br&gt;Jeannie Gottlieb¹, ¹University of Southern Maine, Portland, ME, USA</td>
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<tr>
<td><strong>Antibiotic Exposure During Pregnancy Effects Offspring Microbial Colonization: Bad Bugs Bloom</strong>&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, ¹Fairfax Neonatal Associates, Falls Church, VA, USA</td>
<td><strong>Genetic Characterization of Families from a Hereditary Cancer Registry in Brazil</strong>&lt;br&gt;Erika Santos¹, Caroline Sá¹, Bernardo Garicocha¹, Maria Del Pilar Diz², Renata Coudry¹, Edite Oliveira¹, Benedito Rossi¹, ¹Hospital Sirio-Libanes, Sao Paulo, Brazil</td>
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<tr>
<td><strong>Breast Milk Microbiota Profiles Among Mothers With Preterm Infants: A Review of the Literature</strong>&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>
<td><strong>A Model Of The Childhood Lymphoma Implicates Important Prognostic Genes In Cancer Survival</strong>&lt;br&gt;Rieko Sotojima¹, Joelle Fenger², William Kisseberth², Jennie Rowell², ¹The Ohio State University College of Nursing, Columbus, OH, USA, ²The Ohio State University College of Veterinary Medicine, Columbus, OH, USA</td>
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<tr>
<td><strong>Primary Care Nurse Practitioners’ Knowledge and Experience Regarding the Management of Presumptive Positive Results of the Kentucky Mandated Newborn Screening Program</strong>&lt;br&gt;Delwin Jacoby¹, Angela Crutcher¹, Spalding University, Louisville, KY, USA, ¹University of Kentucky, Lexington, KY, USA</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>
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<tr>
<td><strong>10:15AM – 10:30AM</strong></td>
<td><strong>10:30AM – 11:15AM</strong></td>
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<tr>
<td><strong>A Model Of The Childhood Lymphoma Implicates Important Prognostic Genes In Cancer Survival</strong>&lt;br&gt;Rieko Sotojima¹, Joelle Fenger², William Kisseberth², Jennie Rowell², ¹The Ohio State University College of Nursing, Columbus, OH, USA, ²The Ohio State University College of Veterinary Medicine, Columbus, OH, USA</td>
<td><strong>An Initiative to Mentor Nurses</strong>&lt;br&gt;Susan Montgomery¹, Tammy McAmie¹, ¹Fox Chase Cancer Center, Philadelphia, PA, USA, ²W. Temple Webber Cancer Center, Texarkana, TX, USA</td>
</tr>
</tbody>
</table>

**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</th>
<th>Research</th>
<th>Education</th>
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<tbody>
<tr>
<td>11:15AM – 12:15PM</td>
<td><strong>Clinical Utility Of Rapid Genomic Sequencing In The Neonatal And Pediatric Intensive Care Units: What Nurses Need To Know</strong>&lt;br&gt;Julie Cakici, Stephen Kingsmore, David Dimmock, Sara Caylor, 1Rady Children's Institute for Genomic Medicine, San Diego, CA, USA</td>
<td><strong>A Novel Approach to Genotype-phenotype Profiling for Ryanodine Receptor 1-related Myopathies</strong>&lt;br&gt;Katherine Meilleur, Monique Shelton, Jessica Witherspoon, Carolyn Allen, M. Sonia Razaqyar, Michaela Cortes, Irene Chrimer, 1National Institute of Nursing Research, Bethesda, MD, USA</td>
<td><strong>A Review of the Literature on the Relationships Between Genetic Polymorphisms and Chemotherapy-Induced Nausea and Vomiting</strong>&lt;br&gt;Komal Singh, Elena Flowers, Kord Kober, Anand Dhruva, Christine Miaskowski, 1University of California San Francisco, San Francisco, CA, USA</td>
</tr>
<tr>
<td>1:15PM – 2:30PM</td>
<td><strong>Educational Needs of Nurses to Provide Genetic Services in Prenatal Care: A Cross Sectional Study from Turkey</strong>&lt;br&gt;Memnun Seven, Kafiye Eroglu, Aygül Akyüz, Charlotte Ingvoldstad, 1Koç University, Istanbul, Turkey, 2Karolinska Institute, Stockholm, Sweden</td>
<td><strong>Factors Associated With Family Communication About Genetic Risk for Inherited Cardiac Conditions</strong>&lt;br&gt;Lisa Shah, 1University of Iowa, Iowa City, IA, USA</td>
<td><strong>Incidence and Perception of Nursing Students’ Academic Incivility in Oman</strong>&lt;br&gt;Jansirani Natarajan, Joshua Kanaabi Mulira, 1Sultan Qaboos University, Muscat, Oman</td>
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<td>2:00PM – 3:00PM</td>
<td><strong>Utilization of and Women Educational Needs for Prenatal Screening tests: A Turkish study</strong>&lt;br&gt;Memnun Seven, Aygül Akyuz, Kafiye Eroglu, Sandra Daack-Hirsch, Heather Skirton, 1Koç University, Istanbul, Turkey, 2The University of Iowa College of Nursing, Iowa, USA, 3Plymouth University, Plymouth, UK</td>
<td><strong>The Importance of Coronary Heart Disease Family History for Triage Evaluation of Patients With ST Elevation Myocardial Infarction in the Emergency Department</strong>&lt;br&gt;Efrat Dagan, Mor Saban, Rabia Salameh, Aziz Darawsha, 1University of Haifa, Haifa, Israel, 2Rambam Health Care Campus, Haifa, Israel</td>
<td><strong>Assessment Of Genomic Knowledge Among Nurses In An Online RN To BSN Completion Program</strong>&lt;br&gt;Lisa Aiello, 1Drexel University, Philadelphia, PA, USA, 2Villanova University, Villanova, PA, USA</td>
</tr>
<tr>
<td>2:45PM – 4:15PM</td>
<td><strong>Genetic Variation And Drug Phenotype Data For 3372 Newborns That Completed Pharmacogenetic Testing</strong>&lt;br&gt;Grace N Lawrence, Julie A Muskett, Allison G Mitchell, Grace Jo, Kathleen Brown, Ramaswamy Iyer, 1Inova, Falls Church, VA, USA</td>
<td><strong>The Importance of Coronary Heart Disease Family History for Triage Evaluation of Patients With ST Elevation Myocardial Infarction in the Emergency Department</strong>&lt;br&gt;Efrat Dagan, Mor Saban, Rabia Salameh, Aziz Darawsha, 1University of Haifa, Haifa, Israel, 2Rambam Health Care Campus, Haifa, Israel</td>
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12:15PM – 1:45PM

**Lunch / Networking and ISONG Committee Meetings**

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!

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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>2:30PM – 3:00PM</td>
<td>Refreshment Break / Visit Exhibits, Posters and Raffle</td>
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<tr>
<td>3:00PM – 4:00PM</td>
<td>Invited Speakers</td>
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#### Invited Speakers

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker Details</th>
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</table>
| 3:00PM – 3:30PM | Global Genetics Nursing Alliance – Creating a Roadmap  
Kathleen Calzone, PhD, RN, APNG, FAAN  
Research Geneticist  
National Cancer Institute  
Bethesda, Maryland USA  
Maggie Kirk, PhD, BSc Hons, DipN, RGN, FRCN, SFHEA  
Professor of Genetics Education  
University of South Wales  
Glyntaff, Wales, UK |
| 3:00PM – 3:30PM | Genetic Testing for Hereditary Cancer Syndromes: A Foreign Language or The Way of the Future?  
Tammy McKamie, RN, MSN, OCN, GCN  
Genetic Clinical Nurse/ Educator  
Christus St. Michael Cancer Treatment Center  
Texarkana, Texas USA |
| 3:30PM – 4:00PM | Promising Strategies for Genomic Nursing Education  
Linda D Ward, PhD, ARNP  
Assistant Professor  
College of Nursing  
Washington State University  
Spokane, Washington USA |
| 3:30PM – 4:00PM | Epigenomic Biomarkers in Preeclampsia  
Cindy Anderson, PhD, CRNP, WHNP-BC, FNAP, FAHA, FAAN  
Associate Dean for Academic Affairs and Educational Innovation  
College of Nursing  
The Ohio State University  
Columbus, Ohio USA |
| 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.
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<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>7:45AM – 5:00PM</td>
<td>Congress Registration</td>
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<td>7:45AM – 8:45AM</td>
<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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<td>9:00AM – 9:45AM</td>
<td>Keynote Presentation – State of the Science in Genomic Nursing</td>
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<tr>
<td></td>
<td>Patricia A. Grady, PhD, RN, FAAN</td>
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<td>Director</td>
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<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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<td>9:45AM – 10:30AM</td>
<td>P30 Grant Panel</td>
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<td>Precision in Symptom Self-Management (PriSSM): Looking Through a Nursing</td>
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<td>Lens for the Future</td>
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<td>Kathleen T. Hickey, EdD, FNP, ANP, FAHA, FAAN</td>
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<td>Associate Professor</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>Refreshment Break / Visit Exhibits, Posters and Raffle</td>
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<td>Towards Oncology Precision Symptom Science: Phenotype-Omics Association</td>
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<td>Studies in Clinically Relevant Animal Models</td>
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<td></td>
<td>Susan G. Dorsey, PhD, RN, FAAN</td>
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<td></td>
<td>Professor of Nursing</td>
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<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>University of Maryland Baltimore</td>
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<td>Achieving Precision Pain Management Through Nursing Research: A Trajectory</td>
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<td>to the Bull’s-Eye</td>
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<td>Angela Starkweather, PhD, ACNP-BC, CNRN, FAAN</td>
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<td>Director</td>
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<td>Center for Advancement in Managing Pain</td>
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<td>Professor</td>
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<td></td>
<td>University of Connecticut</td>
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<td>Storrs, Connecticut USA</td>
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### Saturday, November 4, 2017 (continued)

#### Clinical Practice

<table>
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<tr>
<th>Time</th>
<th>Abstract Sessions</th>
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<tr>
<td>11:00AM – 12:00PM</td>
<td><strong>Clinical Practice</strong>&lt;br&gt;Next-Generation Sequencing: Implications Surrounding Usefulness for Newborn Screening&lt;br&gt;Satishkumar Ranganathan Ganakammal1, 2Clemson University, Clemson, SC, USA&lt;br&gt;Testing Safety and Efficacy: The Randomized Controlled Exploratory Study of Exercise Training in Hypertrophic Cardiomyopathy (RESET-HCM)&lt;br&gt;Heidi Salisbury1, Euan Ashley2, Sharlene Day2, Sara Saberi2, Adam Helms2, John Meyers1, John Herrera2, Suwen Kumar2, Yael Schmargad1, Annika Dries1, Matthew Wheeler1, Maryann Concannon1, Anil Attili1, Prachi Agarwal1, Whitney Hornsby2, Jennifer Bragg-Gresham2, 3Stanford Health Care, Palo Alto, CA, USA, 2University of Michigan, Ann Arbor, MI, USA&lt;br&gt;Revision Of The Genomic Nursing Concept Inventory&lt;br&gt;Linda D. Ward1, 1Washington State University, Spokane, WA, USA</td>
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<tr>
<td>11:00AM – 12:00PM</td>
<td><strong>Clinical Practice</strong>&lt;br&gt;Genetic Counselling Outcome Scale (GCOS-24): Cultural Adaptation And Validation For Use In Measuring Patient-Reported Outcomes From Genetic Counselling In Brazil&lt;br&gt;Milena Flória-Santos1, Marion McAllister2, Mayara Segundo Ribeiro1, Bruna Tavares Bacalá1, Ana Paula Torres2, Alan Assunção1, Jennifer Thalita Targino dos Santos1, 1University of São Paulo at Ribeirão Preto College of Nursing, Ribeirão Preto, São Paulo, Brazil, 2Cardiff University School of Medicine, Cardiff, Wales, UK&lt;br&gt;Learning From Patients With Rare Diseases: Clinical Challenges Faced By Two Patients With Different Forms Of Methylmalonic Acidemia (MMA)&lt;br&gt;Carol Van Ryzin1, Susan Ferry1, 1NIH/NHGRI, Bethesda, MD, USA&lt;br&gt;Precision Nursing Thru Undergraduate Education For Nurses In The Future&lt;br&gt;Anecita Gigi Lim1, 1University of Auckland, Auckland, New Zealand</td>
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<tr>
<td>11:00AM – 12:00PM</td>
<td><strong>Clinical Practice</strong>&lt;br&gt;A Transition Program for Adolescents with Down Syndrome: Three Year Review&lt;br&gt;Joanna Spahis1, Debbie Clark1, 1Children's Health Dallas, Dallas, TX, USA&lt;br&gt;Pharmacogenetics: A Valuable Resource For Patients Participating In Care Coordination With Depression&lt;br&gt;Julie Kittelsrud1, Lisa Weisser1, Neil Matthiesen1, Trisha Lauterbach1, Melissa Black1, Noah Kallsen1, Sandy Crisp1, David Basal1, Krista Bohlen1, 1Avera 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&lt;br&gt;Measuring Genomic Literacy Among Lebanese Nurses&lt;br&gt;Kathi C. Huddleston1, Linda D. Ward2, Maya Nizam1, Iman Kouatly3, Alik Sarian1, Lina Kurdaht Badr1, 1Inova Translational Medicine Institute, Falls Church, VA, USA, 2Washington State University, Spokane, WA, USA, 3American University of Beirut Medical Center, Beirut, Lebanon</td>
</tr>
<tr>
<td>11:00AM – 12:00PM</td>
<td><strong>Clinical Practice</strong>&lt;br&gt;Outcomes of Newborn Screening for Lysosomal Storage Disorders in Illinois&lt;br&gt;Erika Vucko1, Lauren Hitchins1, 1Ann &amp; Robert H. Lurie Children’s Hospital, Chicago, IL, USA&lt;br&gt;Evaluating the Practicality of Clinic-Wide Utilization of a Psychotropic Assay&lt;br&gt;Katie Halbmayer1, Virginia Conley1, 1University of Iowa College of Nursing, Iowa City, Iowa, USA, 2Eyerly Ball, Des Moines, IA, USA&lt;br&gt;Innovative Online Teaching Strategies for Graduate Students&lt;br&gt;Leighsa Sharoff1, 1Hunter College, New York, NY, USA</td>
</tr>
</tbody>
</table>

#### 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
</table>
| 2:00PM – 3:15PM | Abstract Sessions         | ICU Delirium And Changes In IL6ST Methylation.                        | Sheila Alexander¹, Bryan McVerry¹, Scott Gunn¹, Yvette Conley¹, Dianxu Ren¹,  
                                     |                                                                        | *University of Pittsburgh, Pittsburgh, PA, USA*                                                                 |  |
|            |                          | Differences in the Stool and Skin Microbiome and in Antimicrobial   | Kathi Huddleston¹, Elisabeth Klein¹,  
                                     |                                                                        | Resistance Genes in a Private Room Versus Open-bay Neonatal Intensive Care Unit  
                                     |                                                                        | Varsha Deopujari¹, Suchitra Hourigan¹,  
                                     |                                                                        | *Inova Translational Medicine Institute, Falls Church, VA, USA, *  
                                     |                                                                        | *Pediatric Specialists of Virginia, Fairfax, VA, USA*               |  |
|            |                          | Understanding Parental Refusal To Enroll Their Children In A Genomic  | Annastasia Ouma¹, Stacy Hines-Dowell¹,  
                                     |                                                                        | Sequencing Research Study  
                                     |                                                                        | Kayla Hamilton¹, Lynn Harrison¹, Elsie Gerhardt¹, Victoria Liddle¹,  
                                     |                                                                        | Rose McGee¹, Regina Nuccio¹, Emily Quin¹n, Jessica Valdez¹,  
                                     |                                                                        | Chimene Kesserwan¹, Kim Nichols¹,  
                                     |                                                                        | *St. Jude Childrens Research Hospital, Memphis TN, USA*            |  |
|            |                          | DNA Methylation Hints at Biological Mechanisms in the Critically Ill  | Jennie Rowell¹, Judy Tate¹, Michele Balas¹, Matthew Exline¹, Linda Chlan¹,  
                                     |                                                                        | Patient: A Pilot Study  
                                     |                                                                        | Pearly Yan¹, Jackson Killian¹, Mary Beth Happ¹, Chi Song¹, Guy Brock¹,  
                                     |                                                                        | Ralf Bundschuh¹,  
                                     |                                                                        | *The Ohio State University, Columbus, OH, USA*                     |  |
|            |                          | DNA Methylation Associated with Early Neurodevelopment in Preterm Infants | Rita Pickler², Cindy Anderson², Maciej Pietrzak², Joyce Ohm³,  
                                     |                                                                        | *Roswell Park Cancer Institute, Rochester, NY, USA, *  
                                     |                                                                        | *The Ohio State University, Columbus, OH, USA*                     |  |
|            |                          | Factors Affecting Recruitment And Consent To Biological Specimen     | Shannon Gillespie¹, Cindy Anderson¹,  
                                     |                                                                        | Banking In An Observational Cohort Study Of Pregnant Women  
                                     |                                                                        | *The Ohio State University, Columbus, OH, USA*                     |  |
|            |                          | Blood-Based DNA Methylation Levels Of Endoglin Pathway Candidate Genes: Do They Differ In Women With And Without Clinically-Overt Preeclampsia? | Allison Rietze¹, Yvette Conley¹, Carl Hubel¹, Arun Jayabalani¹, James Roberts¹, Mandy Schmella¹,  
                                     |                                                                        | *University of Pittsburgh, Pittsburgh, PA, USA, *  
                                     |                                                                        | *Magee-Womens Research Institute and Foundation, Pittsburgh, PA, USA* |  |
|            |                          | Relationship Between Psychosocial Distress In Pregnancy And Two Genes Associated With Human Social Interaction | Sarah Dewell¹, Donna Slater¹, Karen Benzes¹, Sheila McDonald¹, Suzanne Tough¹,  
                                     |                                                                        | *University of Calgary, Calgary, AB, Canada*                  |  |
|            |                          | The Gut Microbiome in Necrotizing Enterocolitis: A Case Study of Twins | Elisabeth Klein¹, Kathi Huddleston¹,  
                                     |                                                                        | Varsha Deopujari¹, Suchitra Hourigan¹,  
                                     |                                                                        | *Inova Translational Medicine Institute, Falls Church, VA, USA,*  
                                     |                                                                        | *Pediatric Specialists of Virginia, Fairfax, VA, USA*             |  |
| 3:30PM – 4:15PM | Abstract Sessions         | Dietaty Status and DNA Methylation in Endothelial Dysfunction: A Pilot Study | 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*                |  |
|            |                          | The Gut Microbiome in Necrotizing Enterocolitis: A Case Study of Twins | Elisabeth Klein¹, Kathi Huddleston¹,  
                                     |                                                                        | Varsha Deopujari¹, Suchitra Hourigan¹,  
                                     |                                                                        | *Inova Translational Medicine Institute, Falls Church, VA, USA,*  
                                     |                                                                        | *Pediatric Specialists of Virginia, Fairfax, VA, USA*             |  |
| 3:15PM – 3:45PM | Refreshment Break / Visit Exhibits, Posters and Raffle |                                |                                                                    |  |
### Saturday, November 4, 2017 (continued)

#### 3:45PM – 5:00PM

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:45PM – 4:00PM</td>
<td>Research</td>
<td>Moderate Blast Exposure Alters Peripheral Concentrations of Proteins Related to Neurodegeneration</td>
<td>Nicole Osier1, Jessica Gill1, Katie Edwards1, Kristine C. Dell1, Walter Carr2, Peter Walker1, Steven Ahlers1, Matthew LoPresti1, Angela Yarnell2, 1National Institutes of Health, National Institute of Nursing Research, Bethesda, MD, USA, 2Walter Reed Army Institute of Research, Silver Spring, MD, USA</td>
</tr>
<tr>
<td>3:45PM – 4:00PM</td>
<td>Research</td>
<td>OMICS Nursing Science and Education Network (ONSEN)</td>
<td>Kathleen Calzone1, Ann Cashon1, Lois Tully1, Jean Jenkins1, ‘National 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</td>
</tr>
<tr>
<td>4:00PM – 4:15PM</td>
<td>Research</td>
<td>Clinical Documentation Of Genetic Counseling-related Emotional Distress In Electronic Health Record Narratives</td>
<td>Theresa Kolec1, Suzanne Bakken1, Kathleen Hickey1, Nicholas Tatonetti1, Columbia University, New York, NY, USA</td>
</tr>
<tr>
<td>4:00PM – 4:15PM</td>
<td>Research</td>
<td>Neurobiological Mechanisms Of Chemobrain: A Feasibility Study Using An Animal Model</td>
<td>Grace Lawrence1, Kyeung Mi Oh1, Margaret Rodan1, Theodore Dumas1, Virginia Espina1, 1George Mason University, Fairfax, VA, USA, 2INOVA, Falls Church, VA, USA</td>
</tr>
<tr>
<td>4:15PM – 4:30PM</td>
<td>Research</td>
<td>Assessing Awareness and Integration of the Genetic Information Nondiscrimination Act of 2008 (GINA) Among Nurse Practitioner Faculty</td>
<td>Mary Steck1, 1Clemson University, Clemson, SC, USA</td>
</tr>
<tr>
<td>4:15PM – 4:30PM</td>
<td>Research</td>
<td>Identifying Gene Variants Associated With The Poor Absorption Of A Key Anti-inflammatory Nutrient Betacarotene: Implications For Healthcare</td>
<td>Bobbi Laing1, Nishi Karunasinghe1, Lynnette Ferguson1, 1University of Auckland, Auckland, New Zealand</td>
</tr>
<tr>
<td>4:30PM – 4:45PM</td>
<td>Research</td>
<td>Diabetes Education Is Associated with Improved Sleep Quality and Changes in Gene Methylation</td>
<td>Evelyn G. Bigni1, Eileen R. Chasens1, Yvette P. Conley1, Christopher C. Imes1, 1University of Pittsburgh School of Nursing, Pittsburgh, PA, USA</td>
</tr>
<tr>
<td>4:30PM – 4:45PM</td>
<td>Research</td>
<td>Lysozyme Association With Extracellular Vesicles And Circulating RNA</td>
<td>Sarah Abey1, Yuana Yuana1, Paule Joseph1, Natnael Kene1, Nicolaas Fourie1, LeeAnne Sherwin1, Gregory Gonye1, Paul Smyser1, Erin Stempski1, 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</td>
</tr>
<tr>
<td>4:45PM – 5:00PM</td>
<td>Research</td>
<td>Developing A Pre-appointment Video To Prepare New Families For Genetics Clinic Visit</td>
<td>Andrea Hartgraves1, Tammy Fairbanks1, 1Seattle Children’s Hospital, Seattle, WA, USA</td>
</tr>
<tr>
<td>4:45PM – 5:00PM</td>
<td>Research</td>
<td>A Complex Genetic Variant with Distinct Phenotype as a Model for Understanding Common-Complex Diseases</td>
<td>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</td>
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#### 5:00PM – 5:30PM

<table>
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<th>Time</th>
<th>Session</th>
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<tr>
<td>5:00PM</td>
<td>Raffle Drawing in General Session Room</td>
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### Sunday, November 5, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:15AM – 12:00PM</td>
<td>Congress Registration</td>
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<tr>
<td>7:15AM – 8:00AM</td>
<td>Coffee, Tea / Visit Exhibits</td>
</tr>
</tbody>
</table>
| 8:00AM – 8:30AM  | **Incoming President Address**<br>
|                | *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**<br>
|                | **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**<br>
|                | **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, 1University 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 Niendorf1, 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 Simizu3, Yukiko Osanai1, Kazumi Takahashi1, Michiko Mizoguchi1, Syunichiro Izumi2, Kiwamu Akagi3, 1Saitama Cancer Center, Division of Molecular Diagnosis and Cancer Prevention, Kitadauchi-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, Ichihara City, Kanagawa, Japan, 5Saitama Cancer Center, Department of Nursing, Kitadauchi-gun, Saitama, Japan

Decision-Making Regarding Prenatal Genetic Screening Among Pregnant Korean-American Women
Myunghee Jun1, Vipavee Thongpriwan2, Jeeyae Choi2, Kyung Sook Choi2, Gwen Anderson2, 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 Sá4, Bernardo Garciaerre1, Edite Oliveira1, Maria Del Pilar Diz1, Renata Coudry1, Benedito Rossi1, 1Hospital Sirio-Libanese, 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
**Posters**

**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

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

**Development Of A Support Program To Determine In Consultation With Nurses Whether Cancer Patients Should Undergo Genetic Testing Or Not**
Miho Kakuta1, Keiko Tsujii1, Reiko Yokomakura1, Mitsue Simizu1, Yukiko Osana1, Kazumi Takahashi1, Michiko Mizoguchi1, Syunichiro Izumi1, Kiwamu Akagi1, 1Saitama Cancer Center, Division of Molecular Diagnosis and Cancer Prevention, Kitada-chi-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, Kitada-chi-gun, Saitama, Japan

**Reducing Breast Cancer By Accurately Assessing Risk: Findings of a Community Hospital High 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. McNerney1, 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 Hickey1, Mary Bryne1, Niurka Suero-Tejeda1, 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
**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!

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