



Epigenetics Across the Life Span



Final Congress Program

2015 ISONG World Congress

November 6-8, 2015

Omni William Penn Hotel, Pittsburgh, Pennsylvania USA



Epigenetics Across the Life Span

2015 ISONG World Congress



ISONG acknowledges the generosity and support from the 2015 ISONG World Congress.

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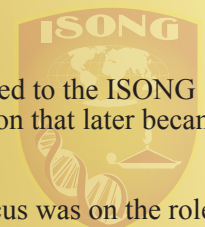


Elizabeth Thomson Memorial Lecture

A Memorial Lecture in honor of our member – Dr. Elizabeth Thomson will be introduced to the ISONG Congress program on Sunday morning. Elizabeth was the co-founder of the organization that later became the International Society of Nurses in Genetics.

Elizabeth began her career as a labor and delivery nurse and developed an interest in genetics. Her focus was on the role of nurses in genetic counseling. Throughout her career, she maintained her devotion to the concern for health and welfare of women and children. With two decades as the program director for the National Human Genome Research Institute's Ethical, Legal, and Social Implications Research Division she was highly regarded as a pioneer in her field. Elizabeth was the author of many publications that included works in nursing genetics and public health and received numerous awards and distinctions for her outstanding work and service. She was a mentor to many aspiring professionals, and was acknowledged for her inspiration and support to colleagues.

Dr. Thomson will be missed by healthcare professionals around the world, the nursing community, and ISONG in particular. We are eternally grateful for her service to ISONG.



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In recognition of dedication in the planning of the 2015 ISONG World Congress

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Congress Program Agenda

Thursday, November 5, 2015

5:00PM – 9:00PM **Congress Registration** (William Penn Corridor)

7:00PM – 9:00PM **Welcome Reception** (Three Rivers)

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Friday, November 6, 2015

7:00AM – 4:00PM **Congress Registration** (William Penn Corridor)

7:15AM – 8:00AM **Coffee, Tea / Visit Exhibits, Posters and Raffle** (Sternwheeler, Anchor and William Penn Ballroom)

8:00AM – 8:30AM **Opening Remarks / President's Welcome** (William Penn Ballroom)

Sheila A. Alexander, PhD, RN

Associate Professor

Acute & Tertiary Care, School of Nursing

Critical Care Medicine, School of Medicine

University of Pittsburgh

Pittsburgh, Pennsylvania USA



8:30AM – 9:15AM **Keynote Presentation: Epigenetics and Public Health** (William Penn Ballroom)

Moderator: Angela Starkweather

Laura M. Rozek, PhD

Associate Professor

School of Public Health

Environmental Health Sciences

University of Michigan

Ann Arbor, Michigan USA



9:15AM – 10:00AM **Plenary Presentation: Epigenetic Research – Post Traumatic Brain Injuries/Post Traumatic Stress Disorder** (William Penn Ballroom)

Moderator: Angela Starkweather

Jessica M. Gill, PhD, RN

Lasker Clinical Research Scholar

Tissue Injury Branch

National Institutes of Nursing Research

Bethesda, Maryland USA



10:00AM – 10:30AM **Refreshment Break / Visit Exhibits, Posters and Raffle**

(Sternwheeler, Anchor and William Penn Ballroom) Sponsored by



DISEASE PREVENTION THROUGH GENETIC TESTING

Continuing Education Credits

ISONG and the University of Pittsburgh School of Nursing have collaborated for The World Congress on Nursing and Genomics. Participants fulfilling the attendance requirements may be awarded a maximum of 14.91 continuing education contact hours. The University of Pittsburgh School of Nursing is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation. ANCC Provider Number 0229.

In order to receive your CEU's for this conference you must complete the Congress evaluation. The evaluation will be sent to all attendees on Sunday, November 8. Contact ISONG at: linda@isong.org if you need any assistance. **It is the responsibility of the attendee to complete the evaluation survey by November 23, 2015 in order to receive the credits.**

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Friday, November 6, 2015

10:30AM – 12:10PM Abstract Sessions

	Breast Cancer Genetic Testing (Three Rivers) Moderator: <i>Deb Tamura</i>	Nursing Genomics Knowledge and Competencies (Riverboat) Moderator: <i>Lynnette Howington</i>	Cardiovascular Disease Genetics (William Penn Ballroom) Moderator: <i>Karen Saban</i>
10:30am-10:50am	Optimizing Genetic Testing in Patients with Triple Negative Breast Cancer <i>Sylvia S. Estrada</i> ¹ , <i>Jenny Hong</i> ¹ , <i>Edward Phillips</i> ¹ , <i>Cathy Dang</i> ¹ , <i>Farin Amersi</i> ¹ , ¹ <i>Cedars-Sinai Medical Center, Los Angeles, CA, USA</i>	Strategies to Realize the Genomic Nursing Science Blueprint <i>Kathleen Calzone</i> ¹ , <i>Jean Jenkins</i> ² , <i>Ann Cashion</i> ³ , <i>Lois Tully</i> ³ , ¹ <i>National Institutes of Health, National Cancer Institute, Bethesda, MD, USA</i> , ² <i>National Institutes of Health, National Human Genome Research Institute, Bethesda, MD, USA</i> , ³ <i>National Institutes of Health, National Institutes of Nursing Research, Bethesda, MD, USA</i>	An East Coast–West Coast Perspective of Living with Hypertrophic Cardiomyopathy <i>Heidi Salisbury</i> ¹ , <i>Kim Subasic</i> ² , ¹ <i>Stanford Hospital, Stanford, CA, USA</i> , ² <i>University of Scranton, Scranton, PA, USA</i>
10:50am-11:10am	Factors Associated with Genetic Counseling and Testing among African American Young Breast Cancer Survivors Diagnosed between the ages of 20-45 years old <i>Tarsha Jones</i> ¹ , <i>Maria Katapodi</i> ² , ¹ <i>Duquesne University, Pittsburgh, Pennsylvania, USA</i> , ² <i>University of Basel, Basel, Switzerland</i>	A Web-Based Delphi Study to Evaluate the Content Validity of a Genomics Knowledge Inventory for Nurses <i>Linda Ward</i> ¹ , ¹ <i>Washington State University, Spokane, WA, USA</i>	A Family History of Premature Coronary Heart Disease: What Else Influences Perceived Risk? <i>Christopher Imes</i> ¹ , <i>Lora Burke</i> ¹ , ¹ <i>University of Pittsburgh School of Nursing, Pittsburgh, PA, USA</i>
11:10am -11:30am	Preliminary Findings from an Efficacy State-wide Trial Aiming to Increase Use of Cancer Genetic Services in Families at Risk for Hereditary Breast Cancer <i>Maria Katapodi</i> ¹ , <i>Laurel Northouse</i> ² , <i>Debra Duquette</i> ³ , <i>Sonja Duffy</i> ⁴ , <i>Nancy Janz</i> ⁵ , <i>Kari Mendelsohn-Victor</i> ² , <i>Beth Anderson</i> ³ , <i>David Ronis</i> ² , <i>Kara Milliron</i> ⁶ , <i>Sofia Merajver</i> ⁷ , ¹ <i>University of Basel, Institute of Nursing Science, Basel, 4056, Switzerland</i> , ² <i>University of Michigan, School of Nursing, Ann Arbor, MI 48109, USA</i> , ³ <i>Michigan Department of Community Health, Genomics Department, Lansing, MI 48168, USA</i> , ⁴ <i>Ohio State University, School of Nursing, Columbus, OH, USA</i> , ⁵ <i>University of Michigan, School of Public Health, Ann Arbor, MI, USA</i> , ⁶ <i>University of Michigan Comprehensive Cancer Center, Ann Arbor, MI, USA</i> , ⁷ <i>University of Michigan School of Medicine, Ann Arbor, MI, USA</i>	Primary Care Providers and Genomic Advancements: A Cautionary Tale <i>Karen J. Whitt</i> ¹ , <i>Ann Maradiegue</i> ¹ , ¹ <i>Brigham Young University, Provo, UT, USA</i> , ² <i>Bailey's Community Health Clinic, Arlington, VA, USA</i>	Genome-Wide Association Study of Survivorship in Coronary Artery Disease Identifies Novel Sex-Specific Markers <i>Jennifer Dungan</i> ¹ , <i>Xuejun Qin</i> ¹ , <i>Melissa Hurdle</i> ¹ , <i>Carol Haynes</i> ¹ , <i>Elizabeth Grass</i> ¹ , <i>Damian Craig</i> ¹ , <i>Simon Gregory</i> ¹ , <i>Elizabeth Hauser</i> ¹ , <i>Svati Shah</i> ¹ , <i>William Kraus</i> ¹ , ¹ <i>Duke University, Durham, NC, USA</i>
11:30am-11:50am	Assessing and Managing Breast Cancer Risk in Transgender Male to Female BRCA 1 & 2 Mutation Carriers <i>Cathleen Goetsch</i> ¹ , ¹ <i>Virginia Mason Cancer Institute, Seattle, WA, USA</i>	Application of the 2015 Code of Ethics for Nurses to Epigenetics and Nursing Care Across the Lifespan <i>Martha Turner</i> ¹ , <i>Laurie Badzek</i> ¹ , ¹ <i>American Nurses Association, Silver Spring, MD, USA</i>	Genetic Predictors for Changes in Sleeping Patterns, Inflammation, and Cardiac Events <i>Jennifer Sanner</i> ¹ , <i>Erica Yu</i> ¹ , <i>Lorraine Frazier</i> ¹ , ¹ <i>UTHealth, Houston, Texas, USA</i>
11:50am-12:10pm	Cancer Awareness and Needs Assessment in Persons with High Risk for Hereditary Breast and Ovarian Cancer <i>Meghan Underhill</i> ¹ , <i>Karleen Habin</i> ² , <i>Kristen Shannon</i> ² , <i>Debra Lunquist</i> ³ , ¹ <i>Dana-Farber Cancer Institute, Boston, MA, USA</i> , ² <i>Massachusetts General Hospital, Boston, MA, USA</i> , ³ <i>Cancer Resource Foundation, Marlborough, MA, USA</i>	Preferences in Return of Genomic Results: A Focus Group Study <i>Kathi Huddleston</i> ¹ , <i>Lisa Klein</i> ¹ , <i>Susanne Haga</i> ² , ¹ <i>Inova Translational Medicine Institute, Falls Church, VA, USA</i> , ² <i>Duke University, Durham, NC, USA</i>	Developing Genomic Biomarkers of Preeclampsia <i>Sandy Founds</i> ¹ , ¹ <i>University of Pittsburgh, Pittsburgh, PA, USA</i>



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Friday, November 6, 2015

12:10PM – 1:20PM **Lunch / Networking** (Monongahela)

1:20PM – 2:20PM **Poster Blitz Oral Presentations** 



Epigenetics, Self-Management, Cancer, Prenatal Development (William Penn Ballroom) Moderator: <i>Linda Ward</i>	Genomics Knowledge, Genomics in Healthcare, Pediatrics (Three Rivers Room) Moderator: <i>Theresa Koleck</i>
<p>P01 Tumor Bearing Dogs as a Model for Human Cancers <u>Jennie Rowell</u>¹, Elise Fiala², Badamy Mike², Isain Zapata², William Kisseberth², Carlos Alvarez², ¹<i>The Ohio State University, Columbus, Ohio, USA</i>, ²<i>The Research Institute at Nationwide Children's Hospital, Columbus, Ohio, USA</i></p> <p>P03 Perception of Role of Genetics and Running in the Family in People with a Family History of Type 2 Diabetes <u>Alyssa Cady</u>¹, Kate Jones², Brenda Rocha², Lisa Shah², Sandra Daack-Hirsch², ¹<i>University of Iowa College of Liberal Arts and Sciences, Iowa City, Iowa, USA</i>, ²<i>University of Iowa College of Nursing, Iowa City, Iowa, USA</i></p> <p>P04 Low Circulating MicroRNA-21 is Associated with Elevated C-Reactive Protein in South Asian Women <u>Elena Flowers</u>¹, Bradley Aouizerat¹, Alka Kanaya¹, ¹<i>University of California, San Francisco, USA</i></p> <p>P05 A Pilot Educational Program to Improve Knowledge about Pharmacogenomic Testing Among Nurse Practitioners in a Breast Cancer Treatment Setting <u>Samuel Hoffman</u>¹, Susan Wesmiller¹, Shannon Ferrari², Sheila Alexander¹, Margaret Rosenzweig¹, Robert Kaufman¹, ¹<i>University of Pittsburgh, Pittsburgh, PA, USA</i>, ²<i>Magee-Women's Hospital of UPMC, Pittsburgh, PA, USA</i></p> <p>P08 Preemptive Genotyping of DMET Variants Involved in Opioid Analgesics Metabolism for Sickle Cell Disease Pain Management <u>Cheedy Jaja</u>¹, Adullah Kutlar², Matt Lyon², Nadine Barrett², ¹<i>University of Cincinnati, Cincinnati, Ohio, USA</i>, ²<i>Georgia Regents University, Augusta, GA, USA</i></p> <p>P09 Triple Negative Breast Cancer (TNBC) Phenotype and Genotype Among Women of Color in the United States: A Review <u>Julie Eggert</u>¹, Annamalar Jeyasehar¹, ¹<i>Clemson University, Clemson, SC, USA</i></p>	<p>P02 Epigenetics, the Life-Course and Metabolic Disease: Implications for Nursing <u>Karen Lynne Zanni</u>¹, ¹<i>SUNY Empire State College, Saratoga Springs, New York, USA</i></p> <p>P06 Stressors, Gut Microbiome and Neurodevelopment in Preterm Infants in the NICU <u>Xiaomei Cong</u>¹, Joerg Graf², Wendy Henderson³, Jacqueline McGrath¹, Kendra Baas², ¹<i>University of Connecticut School of Nursing, Storrs, CT, USA</i>, ²<i>University of Connecticut Molecular and Cell Biology Department, Storrs, CT, USA</i>, ³<i>NIH NINR Biobehavioral Branch, Digestive Disorder Unit, Bethesda, MD, USA</i></p> <p>P07 The Epigenetics of PTSD and PTSD in Women Veterans: Health Policy Implications <u>Cheryl Brubaker</u>¹, ¹<i>University of St. Francis, Albuquerque, New Mexico, USA</i></p> <p>P12 Intestinal Dysbiosis in Infantile Colic: Findings Based on an Integrative Review of the Literature <u>Nancy Dubois</u>¹, ¹<i>OpenBiome, Medford, MA, USA</i></p> <p>P13 A Transition Program for Adolescents with Down Syndrome. <u>Joanna Spahis</u>¹, Debbie Clark¹, ¹<i>Children's Health/Children's Medical Center, Dallas, TX, USA</i></p> <p>P14 Investigating a Newly Developed Genetics Course and the Acquisition of Genetic and Genomic Nursing Competencies <u>Rebecca Kronk</u>¹, Karen Caywood¹, ¹<i>Duquesne University, Pittsburgh, PA, USA</i></p> <p>P15 Igniting Genetic/Genomic Education and Competency at a Research Facility: Successes and Challenges <u>Georgie Cusack</u>¹, Sharon Flynn², Kathy Feigenbaum², Ellen Eckes², Julie Kohn-Godbout², Kathleen Calzone³, Jean Jenkins⁴, Gwenyth Wallen², ¹<i>National Heart, Lung, and Blood Institute, National Institutes of Health, Bethesda, Maryland, USA</i>, ²<i>Clinical Center, National Institutes of Health, Bethesda, Maryland, USA</i>, ³<i>National Cancer Institute, National Institutes of Health, Bethesda, Maryland, USA</i>, ⁴<i>National Human Genome Research Institute, National Institutes of Health, Bethesda, Maryland, USA</i></p>

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Friday, November 6, 2015

1:20PM – 2:20PM

Poster Blitz Oral Presentations (continued from page 6)



<p>Epigenetics, Self-Management, Cancer, Prenatal Development (William Penn Ballroom) Moderator: <i>Linda Ward</i></p>	<p>Genomics Knowledge, Genomics in Healthcare, Pediatrics (Three Rivers) Moderator: <i>Theresa Koleck</i></p>
<p>P10 Tyrosine Metabolism in a Murine Model of Tyrosinemia Type 1 and the Resulting Epigenetic Neurocognitive Changes. <i>Elizabeth Barnby</i>¹, <i>Gordon MacGregor</i>¹, ¹<i>The University Of Alabama Huntsville, Huntsville, Alabama, USA</i></p> <p>P11 Individual Perceived Health Status and Health Values: Factors Influencing Self-Initiated Genome Testing and Health Action <i>Carolyn Farrell</i>¹, <i>Kevin Eng</i>², <i>Bonnie Holaday</i>¹, <i>Scott Roberts</i>³, <i>Robert Green</i>⁴, ¹<i>Clemson University, Clemson, SC, USA</i>, ²<i>Roswell Park Cancer Institute, Buffalo, NY, USA</i>, ³<i>University of Michigan, Ann Arbor, MI, USA</i>, ⁴<i>Harvard Medical School, Boston, MA, USA</i></p> <p>P19 Racial Differences In Genome-wide DNA Methylation during the First Trimester of Pregnancy <i>Michelle Wright</i>¹, <i>Timothy York</i>¹, ¹<i>Virginia Commonwealth University, Richmond, VA, USA</i></p> <p>P21 Placental Epigenetics and Developmental Programming <i>Laren Riesche</i>¹, ¹<i>University of Illinois at Chicago, Chicago, IL, USA</i></p>	<p>P16 Symptoms in People with Rare Chromosomal Disorders <i>Saeko Kutsunugi</i>¹, <i>Kumiko Tsujino</i>², <i>Kyoko Murakami</i>¹, <i>Kazuko Iida</i>¹, ¹<i>Yamaguchi University, Yamaguchi, Japan</i>, ²<i>University of the Ryukyus, Okinawa, Japan</i></p> <p>P17 Oncotype DX® Recurrence Score Associated with Pre-Adjuvant Therapy Executive Function Performance in Postmenopausal Women with Breast Cancer <i>Theresa Koleck</i>¹, <i>Catherine Bender</i>¹, <i>Susan Sereika</i>¹, <i>Puja Ghotkar</i>¹, <i>Yvette Conley</i>¹, ¹<i>University of Pittsburgh, Pittsburgh, PA, USA</i></p> <p>P20 Genetic Knowledge: Implications for Advanced Practice Nursing <i>Erica Yu</i>¹, <i>Yun-Hua Chiang</i>¹, <i>Jennifer Sanner</i>¹, ¹<i>The University of Texas Health Science Center at Houston School of Nursing, Houston, TX, USA</i></p>

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Friday, November 6, 2015

2:20PM – 2:50PM **Refreshment Break / Visit Exhibits, Posters and Raffle**
(Sternwheeler, Anchor and William Penn Ballroom)

2:50PM – 4:30PM **Abstract Sessions**

	Self-Management (Lifestyle Behaviors, Response to Genomic Information) (Riverboat) Moderator: <i>Kim Subasic</i>	Personalized Medicine, PGx, Biomarkers in Healthcare (Three Rivers) Moderator: <i>Kathy Sparbel</i>	Women's Health, Prenatal & Neonatal Genomics (William Penn Ballroom) Moderator: <i>Tina Mladenka</i>
2:50pm-3:10pm	Comparing Study Processes of Two Reproductive Health Intervention Studies that Used a Face-to-Face and an Internet Delivery for Young Adults with Sickle Cell Disease or Sickle Cell Trait Agatha Gallo ¹ , Diana Wilkie ² , Coretta Jenerette ³ , Maxine Adegbola ⁴ , Eufemia Jacob ⁵ , Martha Swartz ⁶ , Robert Molokie ¹ , Marie Suarez ¹ , Yingwei Yao ¹ , Alexis Thompson ⁷ , Patricia Hershberger ¹ , ¹ University of Illinois at Chicago, Chicago, IL, USA, ² University of Florida, Gainesville, FL, USA, ³ University of North Carolina at Chapel Hill, Chapel Hill, NC, USA, ⁴ University of Texas at Arlington, Arlington, TX, USA, ⁵ University of California, Los Angeles, Los Angeles, CA, USA, ⁶ Yale University, New Haven, CT, USA, ⁷ Northwestern University-Feinberg School of Medicine, Ann and Robert Lurie Children's Hospital of Chicago, Chicago, IL, USA	Genetic Counseling Outcome Scale (GCOS-24): Cross-Cultural Adaptation and Validation for Evaluation of Genetic Counseling in Brazil Milena Flória-Santos ¹ , Mayara Ribeiro ¹ , Marion McAllister ² , Anne Kettley Gonzaga ¹ , Mariane Caetano Sulino ¹ , ¹ University of São Paulo at Ribeirão Preto College of Nursing, Ribeirão Preto, São Paulo, Brazil, ² Cardiff University, Institute of Medical Genetics, Cardiff, UK	An Epigenetic Approach to Examine DNA from Breast Milk  Kelley Baumgartel ¹ , Maureen Groer ² , Sandra Deslouches ² , Yvette Conley ² , ¹ University of Pittsburgh, Pittsburgh, PA, USA, ² University of South Florida, Tampa, FL, USA
3:10pm-3:30pm	Association Between Family History of Substance Abuse and Opioid Dose in Patients with Chronic Pain Elizabeth Pestka ¹ , Jeannie Sperry ¹ , ¹ Mayo Clinic, Rochester, MN, USA	Nursing Considerations of XMEN Syndrome: Current Treatment Options and Implications Susan Price ¹ , Deborah Rawson ¹ , Paul Wong ¹ , Mary Myers ¹ , Koneti Rao ¹ , ¹ National Institutes of Health, Bethesda, MD, USA	Interaction between Oxytocin Receptor DNA Methylation and Genotype is Associated with Risk of Postpartum Depression in Women without Depression in Pregnancy Aleeca Bell ¹ , C. Sue Carter ² , Colin Steer ³ , Jean Golding ³ , John Davis ¹ , Alana Steffen ¹ , Leah Rubin ¹ , Travis Lillard ⁵ , Steven Gregory ³ , James Harris ⁴ , Jessica Connelly ⁵ , ¹ University of Illinois at Chicago, Chicago, IL, USA, ² Kinsey Institute, Bloomington, IN, USA, ³ University of Bristol, Bristol, UK, ⁴ Johns Hopkins, Baltimore, MD, USA, ⁵ University of Virginia, Charlottesville, VA, USA

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Past 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.

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Friday, November 6, 2015

2:50PM – 4:30PM Abstract Sessions (continued from page 8)

	<p>Self-Management (Lifestyle Behaviors, Response to Genomic Information) (Riverboat) Moderator: <i>Kim Subasic</i></p>	<p>Personalized Medicine, PGx, Biomarkers in Healthcare (Three Rivers) Moderator: <i>Kathy Sparbel</i></p>	<p>Women's Health, Prenatal & Neonatal Genomics (William Penn Ballroom) Moderator: <i>Tina Mladenka</i></p>
3:30pm-3:50pm	<p>Personalized Genome Testing: Examining a Model to Facilitate Integration of Individual Health and Healthcare System Values and Goals <i>Carolyn Farrell¹, Bonnie Holaday¹, Kevin Eng², Scott Roberts³, Robert Green⁴, ¹Clemson University, Clemson, SC, USA, ²Roswell Park Cancer Institute, Buffalo, NY, USA, ³University of Michigan, Ann Arbor, MI, USA, ⁴Harvard Medical School, Boston, MA, USA</i></p>	<p>Patient Perspectives of Recessive Carrier Testing with Universal Carrier Panels in the Preconception and Prenatal Periods <i>Jennifer Shiroff¹, Mathew Gregoski¹, Lynne Nemeth¹, Bonnie Dumas¹, Ronald Librizzi², ¹Medical University of South Carolina, Charleston, SC, USA, ²Virtua Medical Group, Marlton, NJ, USA</i></p>	<p>Transfer of Differential DNA Methylation from Mothers to Placenta in Preeclampsia <i>Cindy Anderson¹, Jody Ralph², Joyce Ohm², ¹The Ohio State University, Columbus, OH, USA, ²University of North Dakota, Grand Forks, ND, USA</i></p>
3:50pm-4:10pm	<p>Nutritional Supplementation Self-Management and Rationale by Persons with a Positive Gene Mutation for Huntington Disease <i>Kathleen Sparbel¹, Nancy Downing², ¹University of Illinois at Chicago, Chicago, Illinois, USA, ²University of Iowa, Iowa City, Iowa, USA</i></p>	<p>Clinical Utility of Pharmacogenomic Testing Among Anesthesia Providers: A Mixed-Method Study <i>Dru Riddle¹, Mat Gregoski², Kathy Baker¹, Bonnie Dumas², Carolyn Jenkins², ¹Texas Christian University, Fort Worth, Texas, USA, ²Medical University of South Carolina, Charleston, South Carolina, USA</i></p>	<p>Exploring the Relationship between Genetic Variation of FKBP5 and Early Life Stress in the NICU <i>Amy D'Agata¹, Erin Young¹, Jacqueline McGrath¹, Stephen Walsh¹, ¹University of Connecticut, Storrs, CT, USA</i></p>
4:10pm-4:30pm	<p>The Effect of Body Image and Subjective Norms on the Decision to Undergo Prophylactic Mastectomy in Arab and Jewish Women <i>Majeda Kardosh¹, Sivia Barnoy¹, Yoram Bar-Tal¹, ¹Tel Aviv University, Tel Aviv, Israel, ²Shoenbrun Academic Nursing School, Tel-Aviv, Israel</i></p>	<p>Cell-free DNA in Inflammation: An Integrative Review <i>Mayu O. Frank¹, ¹New York University, New York, NY, USA</i></p>	<p>Postoperative Nausea and Vomiting among Women: A Genetic Analysis of Selected Polymorphisms of Genes of the Emetic Pathway <i>Susan Wesmiller¹, Catherine Bender¹, Susan Sereika¹, Gretchen Ahrendt¹, Marguerite Bonaventura¹, Dana Bovbjerg¹, Hannah Mathis¹, Yvette Conley¹, ¹University of Pittsburgh, Pittsburgh, PA, USA</i></p>

4:30PM – 4:40PM

Board Shuttles for Transportation to the University of Pittsburgh

Meet in the Omni William Penn Hotel Lobby for directions to board the shuttles. Shuttles will board and leave from William Penn Way. **Please note: Shuttles will leave promptly by 4:45PM.**

5:00PM – 7:00PM

Tour and Reception at the University of Pittsburgh School of Nursing

Sponsored by  University of Pittsburgh
School of Nursing

6:45PM – 7:15PM

Shuttles Return to the Hotel

Shuttles will begin to board at 6:45PM on 3500 Victoria Street to return to the Omni William Penn Hotel.



Epigenetics Across the Life Span

2015 ISONG World Congress



Saturday, November 7, 2015

- 7:00AM – 5:50PM **Congress Registration** (William Penn Corridor)
- 7:00AM – 8:00AM **Continental Breakfast / Visit Exhibits, Posters and Raffle**
(Sternwheeler, Anchor and William Penn Ballroom)
Sponsored by 
- 8:00AM – 8:05AM **Announcements** (William Penn Ballroom)
- 8:05AM – 8:50AM **Keynote Presentation: Population Genetics and Translational Acceleration**
(William Penn Ballroom)
Moderator: Karin Reuter-Rice
Dietrich A. Stephan, PhD
Chair of the Department of Human Genetics
Graduate School of Public Health
University of Pittsburgh
Associate Director of the Institute for Personalized Medicine
Pittsburgh, Pennsylvania USA 
- 8:50AM – 9:35AM **International Keynote Presentation:**
Parental and Environmental Influences on Infant Mental Health (William Penn Ballroom)
Moderator: Karin Reuter-Rice
Nicole Letourneau, PhD, MN, BN, RN
Professor & Norlien/ACHF Chair
Parent-Infant Mental Health
Director, RESOLVE Alberta
University of Calgary
Calgary, Alberta Canada 
- 9:35AM – 10:10AM **Refreshment Break / Visit Exhibits, Posters and Raffle**
(Sternwheeler, Anchor and William Penn Ballroom)
- 10:10AM – 11:50AM **Abstract Sessions** (See page 11)
- 11:50AM – 1:45PM **Networking / Business Lunch and Awards Presentations** (Monongahela)
- 1:45PM – 3:15PM **Invited Speakers Concurrent Sessions** (See page 12)

Epigenetics Across the Life Span

2015 ISONG World Congress



Saturday, November 7, 2015

10:10AM – 11:50AM Abstract Sessions

	Cancer Genomics and Care (Riverboat) Moderator: <i>Cathy Goetsch</i>	Neurological Genomics (William Penn Ballroom) Moderator: <i>Nicole Osier</i>	Pediatrics (Three Rivers) Moderator: <i>Kathi Huddleston</i>
10:10am-10:30am	Immunologic and Cytogenetic Profiles, Symptoms, and Distress during Induction Chemotherapy for Adults with Acute Myeloid Leukemia: A Psychoneuroimmunology Perspective <i>Tara Albrecht¹, Nancy McCain¹, Jamie Sturgill¹, R.K. Elswick, Jr.¹, Angela Starkweather¹, ¹Virginia Commonwealth University, Richmond, VA, USA</i>	Characterization of Methylation Status for Dopaminergic and Serotonergic Genes in Cerebrospinal Fluid of Subarachnoid Hemorrhage Patients <i>Ansley Stanfill¹, Elizabeth Crago¹, Sandra Deslouches¹, Yvette Conley¹, ¹University of Pittsburgh, Pittsburgh, PA, USA</i>	Cleft Lip and Cleft Palate: A Comprehensive Review <i>Emily Hopkins¹, ¹Chatham University, Pittsburgh, PA, USA</i>
10:30am-10:50am	The Effect of Raspberry Extract on Breast Cancer Cells <i>Katie Edwards¹, Patilee Tate¹, Julie Eggert¹, ¹Clemson University, Clemson, SC, USA</i>	Prevalence of Intrathecal Morphine Induced Pruritus in the New Zealand Māori Population <i>Anecita Gigi Lim¹, ¹University of Auckland, Auckland, New Zealand</i>	Parents' Information Needs when Learning their Children's CYP2D6 Research Results <i>Cynthia A. Prows¹, Melanie Myers¹, ¹Children's Hospital Medical Center, Cincinnati, Ohio, USA</i>
10:50am-11:10am	Challenges of Multigene Panel Testing for Hereditary Cancer Risk <i>Susan Montgomery¹, Andrea Forman¹, Kim Rainey¹, Michelle Savage¹, Elias Obeid¹, Michael Hall¹, Mary Daly¹, ¹Fox Chase Cancer Center, Philadelphia, PA, USA</i>	Huntington Disease as a Model of Epigenetic Contributions to Phenotype <i>Nancy Downing¹, McKenzie Wallace¹, Spencer Lourens¹, Jeffrey Long¹, Jane Paulsen¹, ¹University of Iowa, Iowa City, USA</i>	Congruence of Parental Genomic Variation and Self-Reported Race and Ethnicity in Maternal Child Genomic Studies <i>Kathi Huddleston¹, Lisa Klein¹, Sahel Hazrati¹, Wendy S. Wong¹, ¹Inova Health System, Falls Church VA, USA</i>
11:10am-11:30am	Comparison of DNA Methylation in Prostate Tumor Margins of Obese and Lean Patients <i>Jody Ralph¹, Joyce Ohm¹, Cindy Anderson², Steven Ralph¹, ¹University of North Dakota, Grand Forks, ND, USA, ²The Ohio State University, Columbus, OH, USA</i>	Brain Hypoxia Responsive Gene Expression in Severe Traumatic Brain Injury Patients <i>Ava Puccio¹, Richard Jordan¹, James Lyons-Weiler¹, David Okonkwo¹, Yvette Conley¹, ¹University of Pittsburgh, Pittsburgh, PA, USA</i>	The Methylation of Regulatory Loci within the Leptin Promoter and the Growth of Children with Various Durations of Breast Milk <i>Heide Temples¹, Jeffrey Craig², Richard Saffery³, ¹Clemson University, Clemson, SC, USA, ²Early Life Epigenetics Group, MCRI, Royal Children's Hospital, Parkville, Victoria, Australia, ³Cancer and Disease Epigenetics Group, Murdoch Children's Research Institute (MCRI), Royal Children's Hospital, Parkville, Victoria, Australia</i>
11:30am-11:50am	Hematologic Malignancies in Xeroderma Pigmentosum Patients <i>Deborah Tamura¹, Sikandar Khan², John DiGiovanna³, Kenneth Kraemer⁴, ¹National Institutes of Health, Bethesda, MD, USA, ²National Institutes of Health, Bethesda, MD, USA, ³National Institutes of Health, Bethesda, MD, USA, ⁴National Institutes of Health, Bethesda, MD, USA</i>	Association between Calcineurin Genotype and Clinical Outcomes after Severe TBI <i>Nicole Osier¹, C. Edward Dixon², Sheila Alexander¹, Yvette Conley¹, ¹University of Pittsburgh School of Nursing, Pittsburgh, PA, USA, ²Safar Center for Resuscitation Research, Pittsburgh, PA, USA</i>	Thinking Beyond The Blood Spot: Integrating Newborn Screening Education Into Nursing Care <i>Jaclyn Seisman¹, Natasha Bonhomme¹, ¹Genetic Alliance, Washington, DC, USA</i>

11:50AM – 1:45PM Networking / Business Lunch and Awards Presentations (Monongahela Room)



Epigenetics Across the Life Span

2015 ISONG World Congress



Saturday, November 7, 2015

1:45PM – 3:15PM

Invited Speakers

Session A (William Penn Ballroom)

Moderator: *Sheila Alexander*



Session B (Three Rivers)

Moderator: *Tina Mladenka*

1:45PM-2:15PM	<p>Explaining Disparity in Cardiovascular Disease: Epigenetics and Social Context <i>Karen L. Saban, PhD, APRN, RN, CNRN, FAHA</i> Associate Professor Marcella Niehoff School of Nursing Loyola University Chicago Maywood, Illinois USA Research Health Scientist Center of Innovation for Complex Chronic Healthcare Edward Hines Jr. VA Hospital Hines, Illinois USA</p> 	<p>Role of Epigenetics and Genetics in Pediatric Traumatic Brain Injury <i>Karin Reuter-Rice, PhD, CPNP-AC, FCCM, FAAN</i> Assistant Professor Robert Wood Johnson Foundation Scholar Duke University School of Nursing School of Medicine Department of Pediatrics Duke Institute for Brain Sciences Durham, North Carolina USA</p> 
2:15PM-2:45PM	<p>Omics of Patient Outcomes After Neurological Insult <i>Yvette Conley, PhD</i> Professor of Nursing and Human Genetics University of Pittsburgh Pittsburgh, Pennsylvania USA</p> 	<p>Newborn Screening: Where Genetics and Public Health Come Together <i>Stacy Hines-Dowell, DNP, APNG</i> Doctor of Nursing Practice Advance Practice Nurse in Genetics Department of Oncology/ Division of Cancer Predisposition St. Jude Children's Research Hospital Memphis, Tennessee USA</p> 
2:45PM-3:15PM	<p>Epigenetics and Genomics of Pain <i>Angela Starkweather, PhD, ACNP-BC, CNRN, FAAN</i> Professor & Director Center for Advancement in Managing Pain University of Connecticut Storrs, Connecticut USA</p>  <p><i>Erin Young, PhD</i> Assistant Professor Center for Advancement in Managing Pain University of Connecticut Storrs, Connecticut USA</p> 	<p>Brain-Gut Genomic Interactions of the Host and Microbiome <i>Wendy A. Henderson, CRNP, MSN, PhD</i> Investigator & Chief Digestive Disorders Unit Biobehavioral Branch Division of Intramural Research National Institute of Nursing Research National Institutes of Health Department of Health and Human Services Bethesda, Maryland USA</p> 



Saturday, November 7, 2015

- 3:15PM – 3:45PM **Refreshment Break / Visit Exhibits, Posters and Raffle**
(Sternwheeler, Anchor and William Penn Ballroom)
- 3:45PM – 4:45PM **Invited Speakers (continued)**
- 3:45PM – 4:15PM **Methods for Conducting Reproducible Research with Multi-Omic Data**
(Sternwheeler, Anchor and William Penn)
Moderator: Nancy Downing
Michelle Wright, PhD, RN
Postdoctoral Associate
School of Nursing
Yale University
New Haven, Connecticut USA
- 
- 4:15PM – 4:45PM **Genetics of Obesity** (William Penn Ballroom)
Moderator: Nancy Downing
Ryan Minster, PhD, MSIS
Assistant Professor
Department of Human Genetics
Graduate School of Public Health
University of Pittsburgh
Pittsburgh, Pennsylvania USA
- 
- 4:45PM – 5:50PM **Poster Session/Reception and Raffle** (William Penn Ballroom and Anchor Room)
Raffle will end at 5:15PM. Announcements with winning numbers will be made at the end of the Poster Reception.
- 5:50PM – 7:00PM **Summer Genetics Institute Gathering** (Palm Court) Graduates of the Summer Genetics Institute and individuals who may have interest in learning more about the Summer Genetics Institute are invited to attend an informal gathering to meet, greet, and share memories of the SGI! The gathering will be in the beautiful Palm Court in the Omni William Penn Hotel. All are welcome to attend.



Epigenetics Across the Life Span

2015 ISONG World Congress



Sunday, November 8, 2015

7:15AM – 8:00AM

Coffee, Tea / Visit Exhibits (Sternwheeler)

8:00AM – 8:30AM

Incoming President's Address (William Penn Ballroom)

Sandra Daack-Hirsch, PhD, RN

Associate Professor

College of Nursing

University of Iowa

Iowa City, Iowa USA



8:30AM – 9:15AM

Bioethics and Molecular Genetic Research (William Penn Ballroom)

Moderator: Kim Subasic

Reverend Kevin T. FitzGerald

Associate Professor

Department of Oncology

David Lauler Chair for

Catholic Health Care Ethics

Center for Clinical Bioethics

Georgetown University

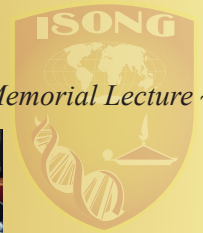
Washington, DC USA



~ *Elizabeth Thomson Memorial Lecture* ~



*Memorial introduction by:
Sandra Daack Hirsch*



9:15AM – 9:55AM

International Panel: Genetic Education Practices Around the World

Moderator

Sivia Barnoy RN, PhD

Associate Professor

Nursing Department

Tel-Aviv University

Tel-Aviv, Israel



*Maggie Kirk PhD, BSc (Hons), Dip N,
Cert. Counselling, RGN, SFHEA, FRCN*

Professor, Genomics Policy Unit

University of South Wales

South Wales, United Kingdom



Panel

Milena Flória-Santos, PhD, MS, RN

Assistant Professor

Department of Maternal-Infant

Nursing and Public Health

Ribeirão Preto College of Nursing

University of São Paulo

WHO Collaborating Centre for

Nursing Research Development

Ribeirão Preto, São Paulo Brazil



*Anecita Gigi Lim, BScN, GradDipSciPharm,
MHSc, PhD FCNA (NZ), RN*

Senior Lecturer School of Nursing

Faculty of Medical and Health Science

University of Auckland

Auckland, New Zealand



Memnun Seven, PhD, RN

Assistant Professor

Koc University School of Nursing

Istanbul, Turkey



9:55AM – 10:15AM

Refreshment Break (Sternwheeler)

10:15AM – 11:15AM

Closing Keynote: Nurse Scientists and Genomics—Moving the Research Forward

(William Penn Ballroom)

Moderator: *Dennis Cheek*

Ann Cashion, PhD, RN, FAAN

Scientific Director

Division of Intramural Research

National Institutes of Health

National Institute of Nursing Research

Bethesda, Maryland USA



11:15AM – 12:15PM

ISONG Committee Meetings (William Penn Ballroom)

Congress Concludes



Posters (William Penn Ballroom)

- P01**
Tumor Bearing Dogs as a Model for Human Cancers
Jennie Rowell
- P02**
Epigenetics, the Life-Course and Metabolic Disease: Implications for Nursing
Karen Lynne Zanni
- P03**
Perception of Role of Genetics and Running in the Family in People with a Family History of Type 2 Diabetes
Alyssa Cady
- P04**
Low Circulating MicroRNA-21 is Associated with Elevated C-Reactive Protein in South Asian Women
Elena Flowers
- P05**
A Pilot Educational Program to Improve Knowledge about Pharmacogenomic Testing Among Nurse Practitioners in a Breast Cancer Treatment Setting
Samuel Hoffman
- P06**
Stressors, Gut Microbiome and Neurodevelopment in Preterm Infants in the NICU
Xiaomei Cong
- P07**
The Epigenetics of PTSD and PTSD in Women Veterans: Health Policy Implications
Cheryl Brubaker
- P08**
Preemptive Genotyping of DMET Variants Involved in Opioid Analgesics Metabolism for Sickle Cell Disease Pain Management
Cheedy Jaja
- P09**
Triple Negative Breast Cancer (TNBC) Phenotype and Genotype Among Women of Color in the United States: A Review
Julie Eggert
- P10**
Tyrosine Metabolism in a Murine Model of Tyrosinemia Type 1 and the Resulting Epigenetic Neurocognitive Changes
Elizabeth Bamby
- P11**
Individual Perceived Health Status and Health Values: Factors Influencing Self-Initiated Genome Testing and Health Action
Carolyn Farrell
- P12**
Intestinal Dysbiosis in Infantile Colic: Findings Based on an Integrative Review of the Literature
Nancy Dubois
- P13**
A Transition Program for Adolescents with Down Syndrome
Joanna Spahis
- P14**
Investigating a Newly Developed Genetics Course and the Acquisition of Genetic and Genomic Nursing Competencies
Rebecca Kronk
- P15**
Igniting Genetic/Genomic Education and Competency at a Research Facility: Successes and Challenges
Georgie Cusack
- P16**
Symptoms in People with Rare Chromosomal Disorders
Saeko Kutsunugi¹, Kumiko Tsujino², Kyoko Murakami¹, Kazuko Iida¹, ¹Yamaguchi University, Yamaguchi, Japan, ²University of the Ryukyus, Okinawa, Japan
- P17**
Oncotype DX® Recurrence Score Associated with Pre-Adjuvant Therapy Executive Function Performance in Postmenopausal Women with Breast Cancer
Theresa Koleck
- P18**
Cerebral Cavernous Malformations: Overview of Genetics and Implications for Pregnancy
Mindy Tinkle¹, Valerie Rappaport¹, Leslie Morrison¹, ¹University of New Mexico, New Mexico, USA
- P19**
Racial Differences In Genome-wide DNA Methylation during the First Trimester of Pregnancy
Michelle Wright
- P20**
Genetic Knowledge: Implications for Advanced Practice Nursing
Erica Yu
- P21**
Placental Epigenetics and Developmental Programming
Laren Riesche



Epigenetics Across the Life Span

2015 ISONG World Congress

Join Us!

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!

ISONG acknowledges the generosity and support:

An educational grant was provided by
Horizon Pharma to support the
2015 ISONG Congress.



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WORLD CONGRESS



ROYAL MARINE HOTEL
DUBLIN, IRELAND
AUGUST 4-7, 2016

