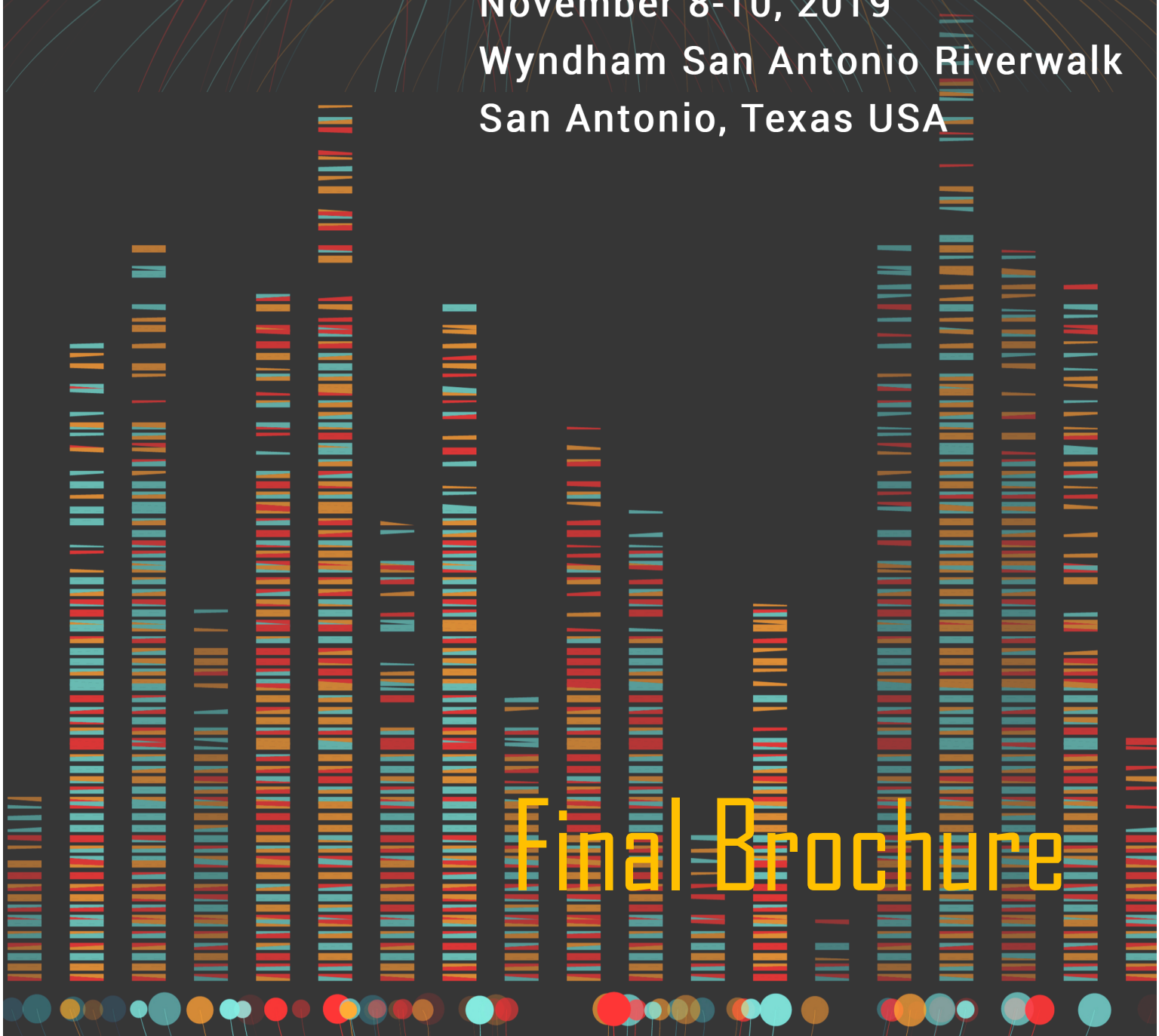
TRANSFORMING HEALTH

Through Genomic Nursing

November 8-10, 2019

Wyndham San Antonio Riverwalk

San Antonio, Texas USA



Final Brochure

2019 ISONG World Congress

International Society of Nurses in Genetics

JOHNS HOPKINS
SCHOOL of NURSING

FACULTY LEADERSHIP OPPORTUNITIES FOR:

PSYCHIATRIC MENTAL HEALTH NURSE PRACTITIONER
ADULT GERONTOLOGY ACUTE CARE NURSE PRACTITIONER

Why a Johns Hopkins nursing faculty leadership role?

- Ranked #1 nationally for its master's, DNP, and online programs by *U.S. News & World Report*
- Ranked #4 nursing school in the world by *QS World University*
- 30% of our faculty have joint appointments with the top-ranked Johns Hopkins Schools of Medicine and Public Health
- Over half of our faculty hold major leadership positions in professional organizations
- Hopkins health system has extensive hospital and community practices

Additional Benefits

- Excellent benefits including highly competitive salary, dependent tuition, and retirement
- Collaborative faculty environment for scholarship, teaching and mentoring
- Instructional design, media and course support
- Eligible for Maryland Higher Education Commission New Faculty award of $20,000

To apply online, visit: nursing.jhu.edu/faculty_npjobs

For a confidential inquiry, please contact:
Marie T. Nolan, PhD, RN FAAN
Professor and Executive Vice Dean
Johns Hopkins School of Nursing
mnolan3@jhu.edu, (410) 614-1684

Welcome

On behalf of the 2019 ISONG Congress Planning Committee, welcome to the 2019 Congress: "*Transforming Health through Genomic Nursing.*" The Wyndham San Antonio Riverwalk is the perfect setting to connect with genetics and nursing colleagues from the United States and around the world.

Nurses are called to transform healthcare and genetics/genomics nurses will be at the forefront of that transformation. We look forward to exciting presentations by our keynote and plenary speakers, abstract podium and poster presenters, and our expert lecture presenters. The presentations have been chosen to meet the following objectives:

- Understand the transformative nature of genomic nursing science on global health.
- Explore future applications of genomic nursing to foster healthy populations.
- Articulate the role of nurses in leading advances in genomic health.

We look forward to seeing you at the Congress. Please remember the vital support of our Congress sponsors and visit each exhibit to learn about new and valuable contributions to health care and education.

Sincerely,

Michael Groves, PhD, RN, CNE
Congress Co-chair

Lynnette Howington, DNP, RNC, WHNP-BC, CNL
Congress Co-chair

NEW for 2019: Student Correspondents and ISONG Congress Social Media

Please post during the Congress using these ISONG hashtags:

#NursesInGenetics **#ISONG2019**

Visit the social media table where you can learn to tweet and use other social media… and have fun at the ISONG photo booth!

Our three student correspondents will be posting live updates to our social media platforms also using these hashtags. We are excited for this inaugural program at ISONG 2019!

Anndra Margareth Dumo, MSc, MA, BSN, RN, RM
PhD Student
University of Eastern Finland, Kuopio Campus
Faculty of Health Sciences, Dept of Nursing Science
Finland

Shazia Mitha, MSN, AGACNP-BC, RN
PhD Student
Columbia School of Nursing
New York, New York, USA

McKenzie Wallace, BSN, BA, RN
PhD Student
Case Western Francis Payne School of Nursing
Cleveland, Ohio, USA

Thank You to the 2019 Congress Planning Committee

Tara Albrecht, PhD, ACNP-BC

Sivia Barnoy, RN, PhD

Jennifer Sanner Beauchamp, PhD, RN , FAAN

Dennis J. Cheek, RN, PhD, FAHA

Anndra Margareth Dumo, PhD Student, MSc, MA, BSN, RN, RM

Sylvia S. Estrada, DNP, WHNP-BC, CBCN

Jane Garvin, PhD, APRN, FNP-BC

Margaret Hornung, FNP-BC, CPBN

Rebecca Kronk, PhD, MSN, CRNP, CNE, FAAN

Maura McCall, PhD Student, MSN, RN

Eugenia Millender, PhD, RN, PMHNP-BC, CDE

Mandy Schmella, PhD, RN

Kathleen J.H. Sparbel, PhD, FNP-BC

Deb Tamura, MS, RN

McKenzie Wallace, BSN, BA, RN

Linda Ward, PhD, FNP-BC

Karen E. Wickersham, PhD, RN

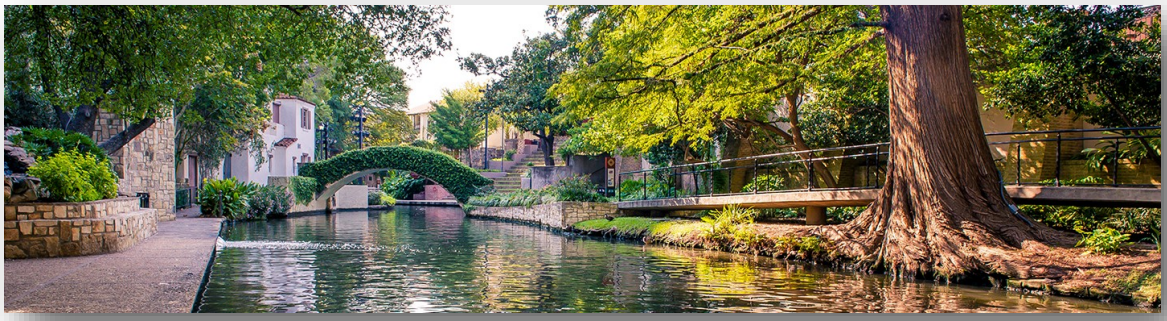
ISONG Genetic Nursing Research Grant Award Recipients

Look for the ribbons throughout the congress program denoting past recipients of this award.

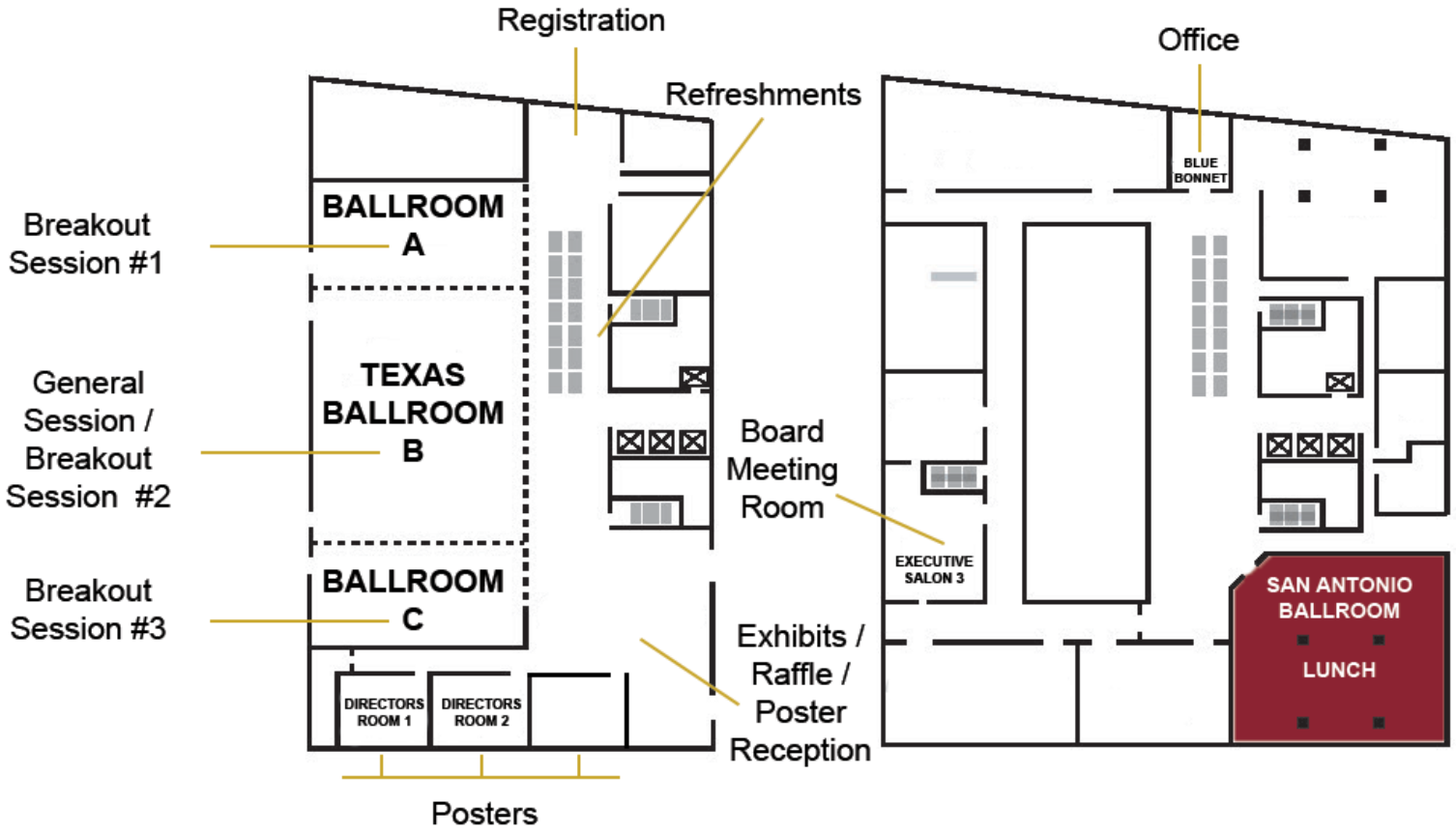
Congress Venue

Wyndham San Antonio Riverwalk

111 East Pecan Street
San Antonio, Texas 78205 USA
+1 (210) 354-2800



Second Floor



Third Floor

Pre-Congress Program Agenda
Thursday, November 7, 2019

8:00AM - 7:00PM **Registration** *Texas Foyer*

9:00AM - 4:00PM **Pre-Congress Sessions**

9:00AM - 12:00PM SESSION A - Genetics for the Non-Genetics Nurse *Ballroom A*

Moderator: *Caitlin Dreisbach*

Kara Morgan, DNP, APRN, CPNP-BC, CGC
Nurse Practitioner
USF Health, Department of Pediatrics—Division of Genetics and Metabolism
Tampa, Florida, USA

9:00AM - 12:00PM SESSION B - Nurse Portfolio Credentialing Commission: Credentialing Professional Nurses in Genetic/Genomic Practice *Ballroom C*

Moderator: Ruth Lucas
Catherine A. Marcum, APN, AGACNP-BC, AGN-BC
Cancer Risk Associates, PLLC
Chattanooga, Tennessee, USA

Julie Eggert, PhD, RN, GNP, AGN, FAAN
Clemson University, School of Nursing

Stacy Hines-Dowell, DNP, AGN-BC
St. Jude Children's Research Hospital

Lori Farmer, APRN, MS, MSN, AGN-BC
83Bar

Jeanine Santelli, PhD, AGPCNP-BC, FAAN
American Nurses Association-New York

1:00PM - 4:00PM SESSION C - Teaching Genomics for Meaningful Learning *Ballroom A*

Moderator: *Ruth Lucas*

Linda Ward, PhD, FNP-BC
Associate Professor
College of Behavioral, Social and Health Sciences
Clemson University
Clemson, South Carolina, USA

1:00PM - 4:00PM SESSION D - Ethics, Genomics, & the Family Care Experience: Newborn Screening Case Studies

Ballroom C *Moderator: Caitlin Dreisbach*

Maryann F. Campbell, RNC-NIC, MS, CNS
Genetics Nurse Coordinator
Kaiser Permanente
Novato, California, USA

Including a pre-recorded video presentation by:
Bryce A. Mendelsohn, MD, PhD
Metabolic Program Director/Geneticist
Kaiser Permanente Northern California
Oakland, California, USA

7:00PM **Dinner (on your own) -** Join your fellow attendees at the conclusion of the day to meet for dinner groups. Check **#ISONGsocial** to connect with others.

Social Connections The Hospitality Committee has planned ways to connect and join the attendees with professional and social activities. The Committee will be using the hashtag **#ISONGsocial** to help attendees connect for dinner or any other activities during downtime. Committee members will be identified with star pins. Please see any of them if you need help or have questions.

Congress Program Agenda
Friday, November 8, 2019

7:30AM - 5:00PM **Registration** *Texas Foyer*

7:30AM - 8:30AM **Welcome Continental Breakfast; Exhibits, Posters and Raffle** *Texas Foyer, Dir. Rms 1 & 2*

8:30AM - 8:45AM **Opening Remarks, Flag Ceremony, and President's Welcome** *Ballroom B*

Michael Groves, PhD, RN, CNE
Congress Co-chair
Associate Professor of Nursing
Shepherd University
Shepherdstown, West Virginia, USA

Cathy Read, PhD, RN
ISONG President
Associate Professor
Connell School of Nursing
Boston College
Chestnut Hill, Massachusetts, USA

8:45AM - 9:45AM **Opening Keynote - *Transforming Health Through Genomic Nursing: Opportunities and Challenges*** *Ballroom B*

Moderator: *Cathy Read*
Christine Miaskowski, RN, PhD, FAAN
Professor
Vice Chair for Research
Department of Physiological Nursing
University of California
San Francisco, California, USA

9:45AM - 10:15AM **Refreshment Break; Visit Exhibits, Posters and Raffle**

10:15AM - 11:30AM **Global Panel** *Ballroom B* Moderator: *Kathy Sparbel*

Sivia Barnoy, RN, PhD
Lecturer, Head of Nursing Department
Tel-Aviv University
Tel-Aviv, Israel

Kyoko Murakami, RN, RNM, PhD
Professor, Faculty of Health Sciences
Graduate School of Medicine
Yamaguchi University
Ube, Yamaguchi, Japan

Sarah Dewell, PhD, MSc, RN
Postdoctoral Associate
Faculty of Nursing, University of Calgary
Calgary, Alberta, Canada

Erika Maria Monteiro Santos, BSN, MSc, PhD
Advanced Practice Nurse - Oncogenetics Svc.
Beneficencia Portuguesa de Sao Paulo
Sao Paulo, Brazil

Sang-Eun Jun
Associate Professor
College of Nursing at Keimyung University
Daegu, South Korea

Emma Tonkin, PhD, BSc (Hons)
Senior Research Fellow
University of South Wales
Pontypridd, Wales, United Kingdom

Friday, November 8, 2019 (continued)

11:30AM - 12:45PM **Lunch, Networking and ISONG Committee Meetings** *San Antonio Ballroom, 3rd Floor*
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!

12:45PM - 1:45PM **Keynote - *Addiction is Part of our DNA: How Pharmacogenetics Markers Play a Role in Opioid Addiction*** *Ballroom B*
Moderator: *Julie Eggert*

Christopher Farrell, PhD
Associate Professor, Pharmaceutical and Administrative Sciences
Presbyterian College School of Pharmacy
Clinton, South Carolina, USA

1:45PM - 2:15PM **Refreshment Break; Visit Exhibits, Posters and Raffle**

2:15PM - 3:15PM **Expert Lectures (Concurrent)**

	Ballroom A Moderator: *Elena Flowers*	*Ballroom B* Moderator: *Karen Wickersham*	*Ballroom C* Moderator: *Nico Osier*
2:15PM - 2:45PM	**Are We There Yet? Predictive and Clinical Utility of Polygenic Modeling for Complex Traits and Symptom Science** *Rose Mary Xavier, PhD, MS, RN, PMHNP-BC* Assistant Professor The University of North Carolina Chapel Hill, North Carolina, USA	**Navigating Nursing Care in Genetic Cardiovascular Disease** *Heidi Salisbury, RN, MS, CNS-BC* Co-Founder Stanford Hospital, Stanford Center for Inherited Cardiovascular Disease Palo Alto, California, USA	**Using Omics to Understand Patient Outcomes after Neurological Injury** *Yvette P. Conley, PhD, FAAN* Professor of Nursing and Human Genetics University of Pittsburgh Pittsburgh, Pennsylvania, USA
2:45PM - 3:15PM	**NINR Training Programs: Promoting Innovative Strategies for Research Careers** *Pamela Tamez, PhD* Training Director National Institute of Nursing Research National Institutes of Health Bethesda, Maryland, USA	**Innovations Extending Nursing's Reach in Delivering Genomic Healthcare** *Andrew A. Dwyer, PhD, FNP-BC, FNAP* Assistant Professor Boston College, Connell School of Nursing & Yvonne L. Munn Center for Nursing Massachusetts General Hospital Chestnut Hill, Massachusetts, USA *Chokdee Rutirasiri* President & Founder Story + Structure Concord, Massachusetts, USA	**Cut the Nonsense: Gene Editing for the Nurse-Geneticist** *Eric Barbato, RN* PhD Candidate Case Western Reserve University Cleveland, Ohio, USA *Rebecca Darrah, MS, PhD* Associate Professor Case Western Reserve University Cleveland, Ohio, USA

3:15PM - 5:15PM **Abstract Sessions (Concurrent) -** See pages 18 - 19

6:00PM **Dinner (on your own) -** Join your fellow attendees at the conclusion of the day to meet for dinner groups. Check **#ISONGsocial** to connect with others.

Saturday, November 9, 2019

7:30AM - 5:00PM	**Registration** *Texas Foyer*
8:00AM - 8:45AM	**Continental Breakfast; Visit Exhibits, Posters and Raffle** Texas Foyer, Directors Rms 1 & 2
8:45AM - 9:00AM	**Announcements and President's Awards** *Ballroom B*
9:00AM - 10:00AM	**Keynote - *Mental Health Treatment Using Psychiatric Genomics: Are We There Yet?*** *Ballroom B* Moderator: *Jennifer Beauchamp* *Consuelo Walss-Bass, PhD* Professor Director, Psychiatric Genetics Program Director, UTHealth Brain Collection For Research In Psychiatric Disorders Co-Director, Translational Psychiatry Program McGovern Medical School UTHealth The University of Texas Houston, Texas, USA
10:00AM - 10:30AM	**Refreshment Break; Visit Exhibits, Posters and Raffle**
10:30AM - 10:50AM	**Presentation of Research Awards** *Ballroom B*
10:50AM - 11:50AM	***The Role of Nursing in Precision Health Care*** *Ballroom B* Moderator: *Lynnette Howington* *Belinda Mandrell, PhD, RN* Director, Nursing Research St. Jude Children's Research Hospital Memphis, Tennessee, USA
11:50AM - 1:20PM	**Lunch and Business Meeting / Presentation of Founders' Awards** *San Antonio Ballroom, 3rd Floor* This is an opportunity to hear updates about ISONG, committee reports, goals and projects to help foster the scientific and professional growth of nurses in human genetics and genomics worldwide. The winners of the Founders' Awards will be announced during the lunch.

Medical Educational Grants to support the 2019 ISONG Congress provided by:

Gold Level

Amicus Therapeutics®

Copper Level

SANOFI GENZYME

Saturday, November 9, 2019 (continued)

1:20PM - 2:20PM **Expert Lectures (Concurrent)**

	Ballroom A Moderator: *Heidi Salisbury*	*Ballroom B* Moderator: *Elizabeth Crago*	*Ballroom C* Moderator: *Christina Murphey*
1:20PM - 1:50PM	**Innovative Genomic Integration for Educational Enhancement** *Leighsa Sharoff, EdD, PHMNP/CNS, AHN-BC* Associate Professor/Simulation Coordinator School of Nursing Hunter College New York, New York, USA	**The Value of Genomic Research in a Community Hospital** *Catherine A. Marcum, APN, AGACNP-BC, AGN-BC* Cancer Risk Associates, PLLC Chattanooga, Tennessee, USA	**A Roadmap for Integrating and Validating Candidate Gene Studies with Omics Data in Association with Health Outcomes** *Theresa Swift-Scanlan, PhD, RN* Director, Biobehavioral Research Lab Ellen Fontaine Winston Distinguished Professor School of Nursing Virginia Commonwealth University Richmond, Virginia, USA
1:50PM - 2:20PM	**Genetic Justice: How Does Genetic Science Alter our Concept of Justice?** *Michael J. Groves, PhD, RN, CNE* Associate Professor Shepherd University School of Nursing Shepherdstown, West Virginia, USA *Christopher C. Imes, PhD, RN* Assistant Professor University of Pittsburgh School of Nursing Pittsburgh, Pennsylvania, USA	**Transforming Symptom Self-Management with Genomics** *Angela Starkweather, PhD, ACNP-BC, CNRN, FAAN* Professor Director of the P20 Center for Accelerating Precision Pain Self-Management School of Nursing University of Connecticut Storrs, Connecticut, USA *Xiaomei Cong, PhD, RN, FAAN* Professor, Director of the Center for Advancement in Managing Pain School of Nursing University of Connecticut Storrs, Connecticut, USA *Wanli Xu, PhD, RN* Assistant Professor, Assistant Director Biobehavioral Research Lab University of Connecticut School of Nursing Storrs, Connecticut, USA	**Epigenetic Age: Applications in Precision Health** *Cindy Anderson, PhD, RN, APRN-CNP, ANEF, FAHA, FNAP, FAAN* Associate Dean for Academic Affairs and Educational Innovation Associate Professor The Ohio State University Columbus, Ohio, USA *Shannon Gillespie, PhD, RN* Assistant Professor The Ohio State University Columbus, Ohio, USA

2:20PM - 2:50PM **Refreshment Break; Visit Exhibits, Posters and Raffle**

2:50PM - 3:50PM **Abstract Sessions (Concurrent)** - See page 20

Saturday, November 9, 2019 (continued)

3:50PM - 4:10PM **Reviewers' Choice Abstracts**

Ballroom A Moderator: *Theresa Koleck*	*Ballroom B* Moderator: *Rebecca Kronk*	*Ballroom C* Moderator: *Erika Maria Monteiro Santos*
Implementing Precision Medicine: Promises and Pitfalls *Elizabeth Hassen, PhD(c), MSN, RN, OCN* Precision Medicine Manager Spartanburg Regional Healthcare System Spartanburg, South Carolina, USA Coauthor: *Amanda Andrews* Spartanburg Regional Healthcare System Spartanburg, South Carolina, USA	**Clinical Management of Hereditary Paraganglioma/ Pheochromocytoma Syndrome** *Susan Montgomery, BSN, OCN, GCN* Genetic Nurse Navigator Fox Chase Cancer Center Philadelphia, Pennsylvania, USA	**Sexual Epigenetic Dimorphism in the Placenta and Positive Child Health** *Hudson Santos, PhD, RN* Assistant Professor, School of Nursing Director of Training and Mentorship Institute for Environmental Health Solutions University of North Carolina Chapel Hill, North Carolina, USA Coauthors: *Jacqueline Bangma, Arjun Bhattacharya, Thomas O'Shea, Rebecca Fry* University of North Carolina Chapel Hill, North Carolina, USA

4:10PM - 5:10PM **Poster Reception** *Texas Foyer*

Meet with the poster authors and ask them questions. This is an ideal time to network with colleagues. This event is included in the registration; all attendees are welcome!

Sponsored by: BIOMARIN

5:10PM - 5:35PM **Raffle Drawing** *Ballroom C*

Congress Attendees Say It Best

"Congress is truly a transformational process for me. The most beneficial aspect is the exposure to exciting genomic research and learning about novel applications to education and clinical practice. I particularly benefit from the one on one poster interactions; rare case reports are my favorite."

Rebecca Kronk, PhD, MSN, CRNP, FAAN, CNE
Duquesne University School of Nursing

"Attending ISONG Congress as a student has been integral to my overall progression. Aside from the expected benefits of networking with like-minded individuals in the field, the added benefit of mentorship has been invaluable. As a graduate student, I met several nursing experts in genomics who I now consider mentors, colleagues and friends. The collegial and friendly environment of ISONG is definitely student-friendly and I highly recommend attending to students at all levels, not only the graduate level!"

Mallory Perry, PhD, RN, CPN, CCRN
Children's Hospital of Philadelphia

"The ISONG Congress is a fabulous place to learn what is new in the field of genetics. You get a cutting-edge view of what is to come so you can be ahead of the wave."

Jane Garvin, PhD, APRN, FNP-BC
University of St. Augustine for Health Sciences

Sunday, November 10, 2019

7:30AM - 11:35AM **Registration** *Texas Foyer*

8:00AM - 8:45AM **Continental Breakfast; Visit Exhibits and Posters** *Texas Foyer, Directors Rooms 1 & 2*

8:45AM - 8:50AM **Announcements** *Ballroom B*

8:50AM - 9:20AM **Incoming President's Address** *Ballroom B*

Dennis Cheek, RN, PhD, FAHA
ISONG President-Elect
Professor
Harris College of Nursing and Health Sciences
Texas Christian University
Fort Worth, Texas, USA

9:20AM - 10:05AM **Expert Lecture - *Social, Environmental, and Genomic Determinants of Health*** *Ballroom B*

Moderator: *Sarah Dewell*
Ansley Stanfill, PhD, RN
Interim Associate Dean of Research; Assistant Professor
College of Nursing
Department of Acute and Tertiary Care and College of Medicine
Department of Genetics, Genomics, and Informatics
University of Tennessee Health Science Center
Memphis, Tennessee, USA

10:05AM - 10:35AM **Refreshment Break; Visit Exhibits and Posters**

10:35AM - 11:35AM **Closing Keynote - *The Role of Genetic Communication in Transforming Patient Health*** *Ballroom B*

Moderator: *Linda Ward*
Kim Kaphingst, ScD
Professor
University of Utah
Salt Lake City, Utah, USA

Congress Concludes

ISONG Vision *Caring for people's genetic and genomic health throughout the lifespan and across the continuum of health and disease.*

ISONG Mission *To serve both the nursing profession and the public. ISONG fosters and advocates for the scientific and professional development of its members and the nursing community, in the discovery, interpretation, application, and management of genomic information, for the promotion of the public's health and wellbeing. ISONG advocates for public understanding of genomic health and use of genomic information.*

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 World 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 retaining our current network and welcoming new members!

ISONG Board of Directors

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

Treasurer
Lisa Aiello, PhD, RN, AOCNS
Drexel University
Philadelphia, Pennsylvania, USA

Board Member at Large
Susan W. Wesmiller, PhD, RN
University of Pittsburgh
Pittsburgh, Pennsylvania, USA

Past-President
Mindy Tinkle, PhD, RN, WHNP-BC, FAAN
South Dakota State University
Brookings, South Dakota, USA

Secretary
Jennifer Dungan, PhD, RN
University of Florida
Gainesville, Florida, USA

Board Member at Large
Masakazu Nishigaki, PhD, RN, CGC
Kyoto University
Kyoto, Japan

President-Elect
Dennis Cheek, RN, PhD, FAHA
Texas Christian University
Forth Worth, Texas, USA

Student Representative
Mallory Perry, PhD, RN, CPN, CCRN
Children's Hospital of Philadelphia
Philadelphia, Pennsylvania, USA

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

ISONG Administration
Amy Spikula
Debbie Zaparoni
Ann Conlin

ISONG
461 Cochran Road, Box 246
Pittsburgh, Pennsylvania 15228 USA
+1 412-344-1414 | amy@isong.org

Gold

BioMarin

BioMarin is a global biotechnology company that develops and commercializes innovative therapies for people with serious and life-threatening rare disorders. The company's portfolio consists of seven commercialized products and multiple clinical and pre-clinical product candidates. For additional information, please visit www.BMRN.com.

Copper

Clemson University School of Nursing

Clemson University School of Nursing is committed to advancing nursing knowledge and preparing nurses for professional practice and leadership in health care. The school's interdisciplinary Healthcare Genetics PhD program develops future leaders in translational research and bench science, clinical practice, ethics and policy in the discipline of healthcare genetics. Our graduates are prepared to serve as stewards of the discipline and meet challenges in applying genome science to transform healthcare research, policy, and clinical care.

Duquesne University School of Nursing

Located in Pittsburgh, Pennsylvania, Duquesne University School of Nursing is recognized as an acknowledged leader in online graduate education. At Duquesne, we are elevating the role of nursing and creating highly ethical individuals who advocate for their patients and understand how genetics and genomics relate to health, prevention, screening and the selection and monitoring of treatments. Our graduates and faculty are making a difference as nursing educators and scholars, practitioners, and researchers. Ask about our DNP-PhD and PhD in Nursing Ethics programs.

PITTNursing

Nursing Research Intensive Environment designation from NINR. Ranked 4th in research dollars awarded by the NIH, including two T32 grants focused on Genetics and Technology: Chronic & Critical Illness. U.S News & World Report's 2020 Best Nursing Grad Schools ranks Pitt's DNP 9th and MSN 12th. National Research Council ranks Pitt's Nursing PhD program 10th. Accelerated 2nd Degree BSN is completed in 3 consecutive terms. Healthcare Genetics Certificate/Minor offered for those seeking graduate genetic education. nursing.pitt.edu/1-888-747-0794

UCONN School of Nursing

Located in Storrs, CT, UConn's School of Nursing offers accredited programs for bachelor's and accelerated degrees, RN-MS and numerous master's programs including post-MS certificates, and DNP and PhD programs. The School of Nursing is also ranked in the top 10 percent nationally and top 5 of graduate nursing programs in New England, with research centers in pain management and nursing scholarship and innovation.

Bronze

Amicus Therapeutics

Amicus Therapeutics is a biotechnology company at the forefront of advanced therapies to treat a range of devastating rare and orphan diseases.

myriad

Myriad Genetics is a leading molecular diagnostic company dedicated to making a difference in patient's lives through the discovery and commercialization of transformative tests to assess a person's risk of developing disease, guide treatment decisions, and assess risk of disease progression and recurrence. For almost 30 years, Myriad has been a trusted advisor at the forefront of precision medicine, transforming people's lives with pioneering molecular diagnostic tests across multiple specialties.

Recordati Rare Diseases Group

Recordati Rare Diseases is a biopharmaceutical company committed to providing often overlooked orphan therapies to the underserved rare disease communities of the United States. Our experienced team works side-by-side with rare disease communities to increase awareness, improve diagnosis, and expand availability of treatments. For more information, please visit www.recordatirarediseases.com.

Sanofi Genzyme

As the specialty care global business unit of Sanofi, our work is focused in the areas of rare diseases, rare blood disorders, multiple sclerosis, oncology and immunology. Each day we continue to advance new therapies, demonstrating our commitment to making a positive impact on the lives of patients around the world.

Here, progress is always in progress.

University of Pittsburgh | School of Nursing

1-888-747-0794 ▪ nursing.pitt.edu

Advance Your Nursing Career

With Our Flexible, 100% Online Nursing Programs

MSN and Post-Master's Certificates

Family (Individual Across the Lifespan) Nurse Practitioner

Forensic Nursing

Nursing Education and Faculty Role

Doctoral Programs

DNP

PhD in Nursing

PhD in Nursing Ethics

Built on more than 80 years of excellence in nursing education, Duquesne University's School of Nursing was designated for a third consecutive time as a "Center of Excellence in Nursing Education" by the National League for Nursing, and has been recognized numerous times by various *U.S. News & World Report* rankings.

DUQUESNE UNIVERSITY
School of Nursing

Pittsburgh, PA

redefining Academic Nursing

Join the Clemson Family

Positions Available:

- **Tenure and Tenure Track Rank**
  Assistant, Associate, and Full Professor
  Specialty areas of: Translational Research, Psych-Mental Health, and Critical Care
- **Lecturers**

further
YOUR EDUCATION

Doctor of Nursing Practice
Online Post-Master's Degree
Contact:
Stephanie Davis, PhD, RN, FNP-BC
stephad@clemson.edu

RN-BS Completion Program
Now an Online Format
Contact:
John Whitcomb, PhD, RN, CCRN-K FCCM
jwhitco@clemson.edu

Learn what sets Clemson University School of Nursing apart and makes it a destination for nurse educators and researchers: *clemson.edu/nursing*

Begin your career at Clemson: *clemson.edu/careers*

CLEMSON
School of NURSING

UCONN
SCHOOL OF NURSING

Leading the way in nursing research, innovation and learning science

NINR P20 Center for Accelerating Precision Pain Self-Management
Center for Advancement in Managing Pain
Biobehavioral Research Laboratory

Center for Open Research Resources and Equipment (COR2E) serves as the gateway to research resources available to the UConn community including: Advanced Light Microscopy; Microbial Analysis, Resources and Services; Nuclear Magnetic Resonance, Proteomics and Metabolomics

Laboratory of Mass Spectrometry and Omics Analysis

Brain Imaging Research Center

Institute for Systems Genomics (ISG) and Computational Biology Core (CBC)

MORE INFORMATION

Center for Advancement in Managing Pain
painresearch.uconn.edu

Center for Accelerating Precision Pain Self-Management
cappsm.nursing.uconn.edu

Caring | Innovating | Advocating

TEST EARLY. DIAGNOSE SOONER.

CUSTOMIZE CARE FASTER WITH NO-COST TESTS

Simply Test for MPS™

AN MPS ENZYME PANEL FOR:

- Patients exhibiting signs and/or symptoms consistent with an MPS disorder.

Sara, 27
Diagnosed with SED at age 8. Correct diagnosis of MPS IVA diagnosed at age 26.

BEHIND the SEIZURE®

A COMPREHENSIVE EPILEPSY GENE PANEL FOR:

- Children 0 to 60 months old who have experienced unprovoked seizures.

Ely, 3
Diagnosed with CLN2 disease at age 2.

Consider no-cost testing for your eligible patients today

VISIT SIMPLYTESTFORMPS.COM

VISIT BEHINDTHESEIZURE.COM

©2019 BioMarin Pharmaceutical Inc. All Rights Reserved. USMPRL0112 0919

BIOMARIN

DECODE DUCHENNE

Parent Project Muscular Dystrophy — JOIN THE FIGHT. END DUCHENNE.

Free genetic testing and counseling for Duchenne and Becker muscular dystrophy

ACCESS FREE GENETIC TESTING

Identifying a person's precise mutation matters. Decode Duchenne offers free genetic testing to people in the Duchenne or Becker muscular dystrophy community who otherwise could not afford genetic testing. Applicants who legally reside in the US or Canada, and face any type of financial barrier may be eligible.

ACCESS FREE GENETIC COUNSELOR SUPPORT

Whether you use Decode Duchenne to access free testing or not, the program's certified genetic counselors are available to answer any questions you have. These counselors frequently help review and interpret test results, review available clinical trials, and discuss testing for other family members.

Decode Duchenne is administered by Parent Project Muscular Dystrophy and The Duchenne Registry. Decode Duchenne is sponsored by Sarepta Therapeutics and PTC Therapeutics.

SAREPTA THERAPEUTICS — PTC THERAPEUTICS

LEARN MORE AND CONTACT US AT
DECODE@PARENTPROJECTMD.ORG

OR PHONE
888.520.8675

PARENTPROJECTMD.ORG/DECODE

2020 | ACMG Annual Clinical Genetics Meeting

MARCH 17–21 | EXHIBIT DATES: MARCH 18–20

HENRY B. GONZÁLEZ CONVENTION CENTER | SAN ANTONIO, TX

Shaping the Future of Genetics and Genomics

Plan Now to Attend!

The 2020 ACMG Annual Clinical Genetics Meeting will be held March 17-21 in San Antonio, Texas. Experience four days of professional growth, education, networking and collaboration with your colleagues from around the world and discover what is shaping the future of genetics and genomics.

Early Bird Deadline:
December 13, 2019

Why Attend?

- 40+ education sessions covering the latest in medical genetics and genomics
- Networking with colleagues, peers and mentors
- Value – earn your credits for CME, P.A.C.E.® and NSGC
- Visit 150+ exhibiting companies with custom solutions
- Short Courses offering in-depth workshops
- Learning Lounges for express sessions
- Exhibit Theaters to hear about new products
- Connect with potential partners and collaborators

Registration and more information at www.acmgmeeting.net

Sponsored by the American College of Medical Genetics and Genomics

ACMG
American College of Medical Genetics and Genomics
Translating Genes Into Health®

RECORDATI RARE DISEASES GROUP

Focused on the Few™

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

www.recordatirarediseases.com/us
@RecordatiRare
NP-RRD-US-0128

Oral Abstracts

Friday, November 8, 2019 ♦ 3:15 PM - 4:15 PM

	Clinical *Ballroom A* Moderator: *Shannon Gillespie*	**Research** *Ballroom B* Moderator: *Hudson Santos*	**Research** *Ballroom C* Moderator: *Maura McCall*
3:15PM - 3:30PM	**Confronting the Diagnostic Odyssey in Genetic Practice: Determining the Etiology of Spastic Diplegia in a 2-Year-Old Female** Delwin Jacoby University of Kentucky, Lexington, KY, USA	**Differential Methylation of HIF-1 Signaling Pathway Genes Associated with Chronic Paclitaxel-Induced Peripheral Neuropathy in Breast Cancer Survivors** Kord Kober[1,2], Jon Levine[3], Judy Mastick[1], Bruce Cooper[1], Steve Paul[1], Christine Miaskowski[1,2] [1]School of Nursing, University of California, San Francisco, CA, USA, [2]UCSF Helen Diller Family Comprehensive Cancer Center, San Francisco, CA, USA, [3]School of Medicine, University of California, San Francisco, CA, USA	**Inflammatory Genotype Moderates the Association between Anxiety and Systemic Inflammation in Adults at Risk for Cardiovascular Disease** Kaitlin Voigts, Debra Moser, Lorri Morford, Gia Mudd-Martin University of Kentucky, Lexington, KY, USA
3:30PM - 3:45PM	**Utilizing Next-Generation Sequencing To Guide Patient Outcomes** Elizabeth Hassen Spartanburg Regional Healthcare System, Spartanburg, SC, USA	**The Association of Polymorphisms Identified as Common Data Elements with Symptoms Experienced by Women with Breast Cancer** Susan Wesmiller, Susan Sereika, Catherine Bender, Elizabeth Skrovanek, Yvette Conley University of Pittsburgh, Pittsburgh, PA, USA	**RNA-seq Analysis of Differentially Expressed Genes Associated with Arterial Stiffness** Jeongok Logan, Xiaoyue Liu University of Virginia, Charlottesville, VA, USA
3:45PM - 4:00PM	**Developing a Pre-Appointment Video to Prepare New Families for Genetics Clinic Visit** Andrea Hartgraves Seattle Children's Hospital, Seattle, WA, USA	**Whole-Transcriptome Differential Expression and Functional Neural Markers of Cognitive Problems Before Systemic Therapy for Breast Cancer** John Merriman[1], Ronald Lam[2], Jen Wui Quan[2], Catherine Bender[3], Yvette Conley[3], Bradley Aouizerat[2] [1]Meyers College of Nursing, New York University, New York, NY, USA, [2]Bluestone Center for Clinical Research, New York University, New York, NY, USA, [3]School of Nursing, University of Pittsburgh, Pittsburgh, PA, USA	**Outcomes of Focus Group Testing of Mobile App for Pharmacogenetic-Guided Dosing** Crystal Dodson, Elizabeth Baker University of North Carolina at Wilmington, Wilmington, NC, USA
4:00PM - 4:15PM	**Coffin-Siris Syndrome – Rare or Undiagnosed** Delwin Jacoby University of Kentucky, Lexington, KY, USA	**Increased Lymphedema Severity is Associated with a Polymorphism in Interleukin 1β** Christine Miaskowski, Kord Kober, Judy Mastick, Bruce Cooper, Steven Paul University of California San Francisco, San Francisco, CA, USA	**Examining the Metabolic Consequences of Insufficient Sleep using 16S rRNA Sequencing and Metabolomics Analyses** Katherine Maki[1], Paule Joseph[2], Mark Lockwood[1], Dagmar Sweeney[1], Stefan Green[1], Anne Fink[1] [1]University of Illinois at Chicago, Chicago, IL, USA, [2]National Institutes of Health, Bethesda, MD, USA

Oral Abstracts

Friday, November 8, 2019 ♦ 4:15 PM - 5:15 PM

	Research, Translation, & Policy *Ballroom A* Moderator: *Elizabeth Hassen*	**Research** *Ballroom B* Moderator: *Jie Chen*	**Research** *Ballroom C* Moderator: *Jane Garvin*
4:15PM - 4:30PM	**Tracing Established and Current United States Policy Initiatives for Improving Patient Care in Sickle Cell Disease** Agatha Gallo, Crystal Patil, Santosh Saraf, Shonda King University of Illinois at Chicago, Chicago, IL, USA	**Associations Between DNA Methylation Trajectories of Aconitase 1 and 2 and Patient Outcomes after Aneurysmal Subarachnoid Hemorrhage** Lacey Heinsberg, Elizabeth Crago, Daniel Weeks, Yvette Conley University of Pittsburgh, Pittsburgh, PA, USA	**Polymorphisms in the Nuclear Factor Kappa Beta Subunit 2 Gene and the Development of Pain in Postmenopausal Women with Breast Cancer Prescribed Aromatase Inhibitors** Monica Wagner, Yehui Zhu, Catherine Bender, Yvette Conley University of Pittsburgh, Pittsburgh, PA, USA
4:30PM - 4:45PM	**Down Syndrome Transition Clinic Year 5: Setting Goals for Transition to Adult Care** Joanna Spahis Children's Health, Dallas, TX, USA	**Sleep and TBI: Polymorphism Associations of CRY-1 by Pathoanatomic Characteristics** Letitia Graves, Susan Sereika, Ava Puccio, David Okonkwo, Yvette Conley University of Pittsburgh, Pittsburgh, PA, USA	**Female Family Members' Understanding of Indeterminate Negative BRCA1/2 Test Results "It's Not Only About Them"** Deborah Gibbons[1], Deborah Himes[1], Wendy Birmingham[1], Renea Beckstrand[1], Amanda Gammon[2,3], Anita Kinney[4,5], Margaret Clayton[3] [1]Brigham Young University, Provo, UT, USA, [2]Huntsman Cancer Institute, Salt Lake City, UT, USA, [3]University of Utah, Salt Lake City, UT, USA, [4]The State University of New Jersey, Piscataway, NJ, USA, [5]Rutgers Cancer Institute of New Jersey, New Brunswick, NJ, USA
4:45PM - 5:00PM	**Tailored Genetic Workshops, Individual Consultation, and a Biobank/Data Repository to Improve Nurse Scientist Genetic Knowledge** Theresa Koleck, Kathleen Hickey, Jacqueline Merrill, Suzanne Bakken Columbia University, New York, NY, USA	**Association Study of IGFBP1 and IGFBP3 Polymorphisms with Delayed Cerebral Ischemia after Aneurysmal Subarachnoid Hemorrhage** Elizabeth Crago[1], YueFang Chang[2], Yvette Conley[1] [1]University of Pittsburgh School of Nursing, Pittsburgh, PA, USA, [2]University of Pittsburgh School of Medicine, Pittsburgh, PA, USA	**Genetic Variability Due to Anthracycline-Induced Cardiotoxicity in Breast Cancer - A Literature Review** Shazia Mitha, Kathleen Hickey Columbia University, New York, NY, USA
5:00PM - 5:15PM	**Genetic Testing Results Inform the Triage of Symptomatic Patients with a Family History of Hypertrophic Cardiomyopathy** Heidi Salisbury, Tia Moscarello Stanford Hospital, Palo Alto, CA, USA	**Characterization of *BDNF* Methylation Pattern Variability and Cognitive Dysfunction Post-Subarachnoid Hemorrhage** Ansley Stanfill[1], Kayla Franks[1], Drew Prescott[1], Anne Alexandrov[1], Lucas Elijovich[1,2], Brandon Baughman[1,2] [1]University of Tennessee Health Science Center, Memphis, TN, USA, [2]Semmes Murphey Clinic, Memphis, TN, USA	**Use of Biological and Genetic Markers in Symptom Cluster Research in Patients with Cancer: A Scoping Review** Lena Lee, Alyson Ross, Sharon Flynn, Ding Ya, Gwenyth Wallen National Institutes of Health, Bethesda, MD, USA

Oral Abstracts

Saturday, November 9, 2019 ♦ 2:50 PM - 3:50 PM

	Education *Ballroom A* Moderator: *Susan Wesmiller*	**Research** *Ballroom B* Moderator: *John Merriman*	**Research** *Ballroom C* Moderator: *Caitlin Dreisbach*
2:50PM - 3:05PM	**Implementing a Cyberhub for Genomic Nursing Education** Linda D. Ward Clemson University School of Nursing, Clemson, SC, USA	**Maternal Toll-like Receptor 4 Signaling as a Function of Parity and Offspring Sex** Shannon Gillespie, Jelissa Neal, Amy Mackos, Alex Nowak, Carmen Giurgescu, Cindy Anderson The Ohio State University, Columbus, OH, USA	**Epigenetic Regulation of the COMT Gene: A Key Moderator of Cognitive Decline** Theresa Swift-Scanlan[1], Charlotte Boettiger[2], Alex Feygin[1], Jacob Graham[1] [1]Virginia Commonwealth University, Richmond, VA, USA, [2]University of North Carolina at Chapel Hill, Chapel Hill, NC, USA
3:05PM - 3:20PM	**Creation of an Online Educational Hub for Genomic Nursing Education, Practice, and Research** Sarah Dewell, Carla Ginn, Karen Benzies University of Calgary, Calgary, Canada	**Research OutSmarts Endometriosis (ROSE) Study for the Collection of Menstrual Effluent (ME) as a Potential Early Diagnostic** Margaret DeFranco, Kristine Elmaliki, Gila Klein, Christine Metz, Peter K. Gregersen The Feinstein Institute for Medical Research/ Northwell Health, Manhasset, NY, USA	**Understanding Chronic Pain Trajectory in Adolescents Undergoing Spinal Fusion Surgery: A Dissertation Study** Mallory Perry[1,2], Erin Young[1], Kyle Baumbauer[1], Christine Sieberg[3], Vijender Singh[1], Michael Costigan[3], Cindy Wong[3], Jacquelyn Taylor[4], Susan G. Dorsey[5], Angela Starkweather[1] [1]University of Connecticut, Storrs, CT, USA, [2]Connecticut Children's Medical Center, Hartford, CT, USA, [3]Boston Children's Hospital, Boston, MA, USA, [4]New York University, New York, NY, USA, [5]University of Maryland, Baltimore, MD, USA
3:20PM - 3:35PM	**Persistent Misconceptions about Inheritance among Graduate Nursing Students** Jane Garvin[1,2], Beverly Collins[2] [1]University of St. Augustine for Health Sciences, St. Augustine, FL, USA, [2]Augusta University, Augusta, GA, USA	**The Impact of Genetics and Environment on Gut Microbiota in Early Life: A Study of Twins and Triplets** Jie Chen[1], Wanli Xu[1], Kendra Maas[2], Xiaomei Cong[1,3,4] [1]School of Nursing, University of Connecticut, Storrs, CT, USA, [2]Microbial Analysis, Resources, and Services, University of Connecticut School of Nursing, Storrs, CT, USA, [3]Institute for Systems Genomics, University of Connecticut, Storrs, CT, USA, [4]Department of Pediatrics, School of Medicine, University of Connecticut, Farmington, CT, USA	**Antenatal Antibiotic-Induced Maternal Dysbiosis is Transferred to Offspring During Critical Developmental Window** Stephanie Prescott[1,2], Jonathan Badger[1], Wendy Henderson[2], Giorgio Trinchieri[1] [1]National Cancer Institute, Bethesda, MD, USA, [2]National Institute of Nursing Research, Bethesda, MD, USA
3:35PM - 3:50PM	**Cystic Fibrosis: Simulation, Genomics and Nursing Educational Enhancement** Leighsa Sharoff Hunter College, New York, NY, USA	**Parenting Interacts with Plasticity Genes in Predicting Behavioural Outcomes in Preschoolers** Nicole Letourneau[1], Jason de Koning[1], Bikram Sekhon[1], Henry Ntanda[1], Michael Kobor[2], Alexander Morin[2], Gerry Giesbrecht[1], Andrea Deane[1] [1]University of Calgary, Calgary, Canada, [2]University of British Columbia, Vancouver, Canada	**Relationships among *APOE* Genotype, Symptoms, and Anastrozole Adherence in Postmenopausal Women with Hormone Receptor Positive Breast Cancer** Maura K. McCall, Susan M. Sereika, Yvette P. Conley, Catherine M. Bender University of Pittsburgh, Pittsburgh, PA, USA

Posters

01 The Influence of Maternal Obesity on Microbial Function and Impaired Glucose Tolerance during Pregnancy
Caitlin Dreisbach, Jeanne Alhusen, Anna Maria Siega-Riz
University of Virginia, Charlottesville, VA, USA

02 RNA Seq to Identify Candidate Genes Associated with Circadian Rhythm Disruption among Nurses Rotating Shifts
Christopher Imes, Monica Wagner, Eileen Chasens, Yvette Conley
University of Pittsburgh School of Nursing, Pittsburgh, PA, USA

03 miRNAs Related to Age-Related Macular Degeneration, Given Nuclear and Mitochondrial Genetic Susceptibility
Frances Peterson-Burch[1], Daniel Weeks[2], Michael Gorin[3], Yvette Conley[1]
[1]University of Pittsburgh School of Nursing, Pittsburgh, PA, USA, [2]University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA, USA, [3]Jules Stein Eye Institute, University of California Los Angeles, Santa Monica, CA, USA

04 Genetic Health Literacy and Prenatal Genetic Testing in Latina Women: An Exploratory Study
Christina Murphey[1], Robin Page[2]
[1]Texas A&M University, Corpus Christi, TX, USA, [2]Texas A&M University, College Station, TX, USA

05 Oxytocin Receptor Gene (OXTR) Single Nucleotide Polymorphism and Delayed Cerebral Ischemia after Subarachnoid Hemorrhage
Lisa Gawron, Lacey Heinsberg, Elizabeth Crago, Yvette Conley
University of Pittsburgh, Pittsburgh, PA, USA

06 Genetic Professional Skills Performance in Nursing: Results from a Large Cohort of Israeli Nurses
Sivia Barnoy[1], Efrat Dagan[2]
[1]Nursing Department, Tel-Aviv University, Tel-Aviv, Israel, [2]Department of Nursing, Haifa University, Haifa, Israel

07 Team Science in Maternal-Child Research: A Case Study on the Microbiota and Obesity
Stephanie Prescott[1], Caitlin Dreisbach[2], Jonathan Badger[1], Jeff Robinson[3], Simon Turkington[3], Wendy Henderson[3], Jeanne Alhusen[2], Anna Maria Siega-Riz[2], Giorgio Trinchieri[1]
[1]National Cancer Institute, Bethesda, MD, USA, [2]University of Virginia, Charlottesville, VA, USA, [3]National Institute for Nursing Research, Bethesda, MD, USA

08 Behind the Scenes of the BRCA Genes, Reducing the Gender Bias
Therese Hughes, Corinne Berg, Kelliann Fee-Schroeder
Mayo Clinic, Rochester, MN, USA

09 Integrative Review of Factors Influencing BRCA Genetic Testing among African Americans Using an Ecological Model
Sungju Lim, Michelle L. Wright
University of Texas at Austin School of Nursing, Austin, TX, USA

10 You and What Army? Biobank Recruitment Using an Army of Undergraduate Volunteers
Christian Reyes[1], Nico Osier[1,2]
[1]Dell Medical School, Austin, TX, USA, [2]University of Texas at Austin School of Nursing, Austin, TX, USA

11 Changes in Circulating miRNA Profiles after Dietary Intervention
Young-Eun Cho[1], A-Ra Cho[2], Sijung Yun[3], Hyungsuk Kim[1], Ji-Won Lee[2], Ann Cashion[1], Hyangkyu Lee[4]
[1]National Institute of Nursing Research/National Institutes of Health, Bethesda, MD, USA, [2]Department of Family Medicine, Yonsei University College of Medicine, Seoul, Republic of Korea, [3]Yotta Biomed, LLC, Bethesda, Maryland, USA, [4]Mo-Im Kim Nursing Research Institute, Yonsei University College of Nursing, Seoul, Republic of Korea

12 Telomere Length and Preterm Birth in Mexican-origin Women: An Exploratory Study
Robin Page, Maria Perez-Patron, Gang Han
Texas A&M University, College Station, TX, USA

13 Genomic Knowledge for Nurses: A Mixed-Methods Study of Literacy and Perceptions
Sarah Dewell[1], Karen Benzies[1], Carla Ginn[2], Cydnee Seneviratne[1], Sandra Goldsworthy[1]
[1]University of Calgary, Calgary, Canada, [2]University of Calgary, Calgary, Canada

14 Gene-Lifestyle Interactions in the Development of Type 2 Diabetes
Soo-jin Hyun[1], Sang-Eun Jun[2]
[1]Taegu Science University, Dae-gu, Republic of Korea, [2]Keimyung University, Dae-gu, Republic of Korea

15 Circulating MicroRNAs are Associated with Longitudinal Trajectories of Fasting Blood Glucose and Biological Pathways Related to Type 2 Diabetes
Elena Flowers[1], Alka Kanaya[1], Bradley Aouizerat[2]
[1]University of California San Francisco, San Francisco, CA, USA, [2]New York University, New York, NY, USA

16 Baseline Symptom Assess Prior to Palynziq Therapy
Maryann Campbell
Kaiser Permanente, Oakland, CA, USA

Posters (continued)

17 Developing Cancer Genetics Health Literacy in Hospital Nurses
Kyoko Murakami[1], Saeko Kutsunugo[1], Misae Ito[1], Kazuko Iida[1], Kumiko Tsujino[2], Teresa Stone[1]
[1]Yamaguchi University, Ube, Japan, [2]University of the Ryukyus, Naha, Japan

18 Advanced Practice Nurse in Cancer Genetic Counseling: Proposal for a New Role in Brazil
Erika Santos
Beneficencia Portuguesa de Sao Paulo, São Paulo, Brazil, Sociedade Brasileira de Enfermagem em Genética e Genômica, São Paulo, Brazil

19 Predicting Neurodevelopmental Outcomes of Preterm Infants Using Multi-Omic Measures: A Pilot Study
Sharon Casavant, Xiaomei Cong
University of Connecticut, Storrs, CT, USA

20 Risk and Protective Factors for Vaginal *Lactobacillus* Dominance Among Pregnant African American Women
Michelle Wright[1], Rebecca Mitchell[2], Alexis Dunn[2], Anne Dunlop[2], Elizabeth Corwin[2]
[1]University of Texas at Austin, Austin, TX, USA, [2]Emory University, Atlanta, GA, USA

21 Exploring the Association of IL10 and TLR1 Polymorphisms and Symptom Severity among Females with Irritable Bowel Syndrome
Yvette Rodriguez[1], Angelita Utleg[1], Andrew Johnson[2], Kevin Cain[3], Hilaire Thompson[1], Robert Burr[1], William DePaolo[4], Margaret Heitkemper[1]
[1]University of Washington School of Nursing, Seattle, WA, USA, [2]Fred Hutch, Seattle, WA, USA, [3]University of Washington Department of Biostatistics, Seattle, WA, USA, [4]University of Washington School of Medicine, Seattle, WA, USA

22 Gene Variants and Sleep Problems in Children with Autism Spectrum Disorder
Ann E. E. Johansson, Christine A. Feeley, Eileen R. Chasens
University of Pittsburgh, Pittsburgh, PA, USA

23 Pain and Gene Expression Profiles in Patients with Irritable Bowel Syndrome (IBS): Results from a Pilot Randomized Controlled Trial of a Pain Self-Management Intervention
Wanli Xu, Vijender Singh, Angela Starkweather, Xiaomei Cong
University of Connecticut, Storrs, CT, USA

24 Impact Of Genetic Counseling And Genetic Testing on High-Risk Hereditary Breast and Ovarian Cancer (HBOC)
Natalia Campacci[1], Henrique de Campos Reis Galvão[2], Paula Carvalho[2], Lucas França Garcia[3], Rebeca Silveira Grasel[1], Patricia Ashton-Prolla[4], Edenir Inêz Palmero[1,2,5]
[1]Molecular Oncology Research Center, Barretos Cancer Hospital, Barretos-SP, Brazil, [2]Oncogenetics Department, Barretos Cancer Hospital, Barretos-SP, Brazil, [3]Graduate Program on Health Promotion, UniCesumar, Maringá-PR, Brazil, [4]Federal University of Rio Grande do Sul, Porto Alegre-RS, Brazil, [5]Barretos School of Health Sciences, Dr. Paulo Prata – FACISB, Barretos-SP, Brazil

25 Investigating Disparities between Mothers and Fathers Enrolling Children into a Pediatric Injury Biobank
Gianeen Magno[1,2], Nico Osier[1,2]
[1]University of Texas at Austin School of Nursing, Austin, TX, USA, [2]University of Texas at Austin Dell Medical School, Austin, TX, USA

26 Early Life Adversity is Associated with Differential MiRNA Expression in Older African American Women at Risk for Cardiovascular Disease
Karen Saban, Michael Zilliox, Dina Tell, Herbert Mathews, Linda Janusek
Loyola University Chicago, Maywood, IL, USA

27 Nursing Policy and the Return of Genetic Testing Results to Research Patients
Emma Kurnat-Thoma, Carolyn Allen
NINR/NIH/DHHS, Bethesda, MD, USA

28 A Nurse-Initiated Biological Bank and Repository of Human Breast Milk Samples and Associated Medical Data
Kelley Baumgartel[1], Jill Demirci[2], Yvette Conley[2], Denise O'Connor[3]
[1]Duquesne University, Pittsburgh, USA, [2]University of Pittsburgh, Pittsburgh, PA, USA, [3]Mid-Atlantic Mothers' Milk Bank, Pittsburgh, PA, USA

ISONG Nursing Research Grant Awards

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. These grants are awarded at the Congress. Visit www.isong.org for more information about the ISONG research grants program.

Continuing Education Credits

This activity is being jointly provided by ANA-NY and ISONG. This continuing nursing education activity was approved by the Northeast Multistate Division, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. Nurse participants completing the activity and the evaluation tool will receive up to 13.25 continuing Education credits, plus up to an additional 7.00 Pharma credits, for the Congress and up to 6.00 continuing Nursing Education credits for the Pre-Congress.

ISONG Acknowledges the Generosity and Support

Sponsors and Exhibits

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

BIOMARIN®

CLEMSON
School of NURSING

DUQUESNE UNIVERSITY
School of Nursing

PITTNursing

UCONN
SCHOOL OF NURSING

Amicus Therapeutics®

myriad® WHEN DECISIONS MATTER OVER 25 YEARS

RECORDATI RARE DISEASES GROUP
Focused on the Few™

SANOFI GENZYME