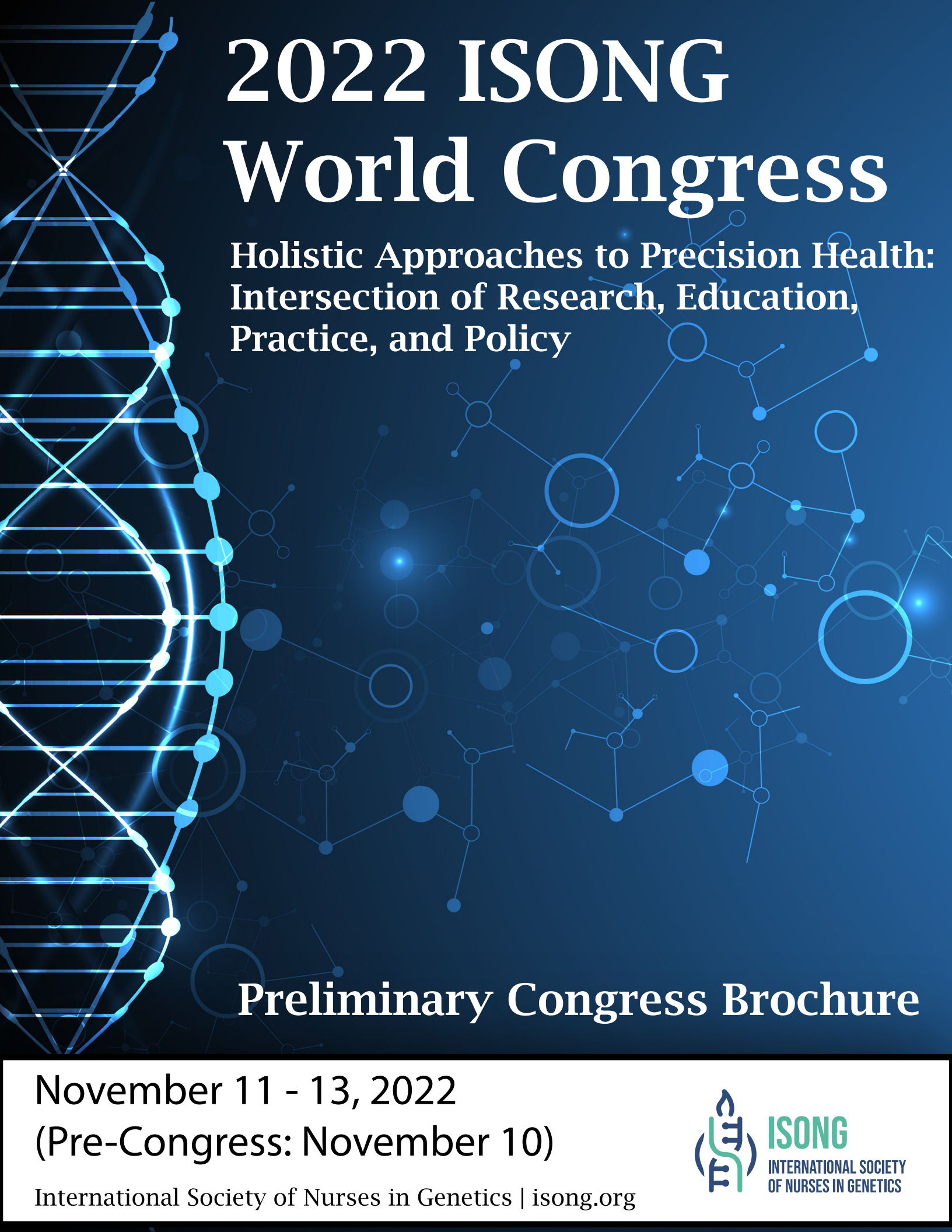




2022 ISONG World Congress

**Holistic Approaches to Precision Health:
Intersection of Research, Education,
Practice, and Policy**

Preliminary Congress Brochure

**November 11 - 13, 2022
(Pre-Congress: November 10)**

International Society of Nurses in Genetics | isong.org





On behalf of the 2022 ISONG Congress Planning Committee, we invite you to join us at the 2022 World Congress: “Holistic Approaches to Precision Health: Intersection of Research, Education, Practice, and Policy.” Located on the edge of tranquil Duke Forest, the Washington Duke Inn will be the perfect relaxed venue to reconnect with our omics and nursing colleagues from around the world after virtual meetings for the past two years.

In celebration of this long-awaited reunion, all attendees are invited to a Welcome Reception at the Washington Duke Inn on the evening of Thursday, November 10, 2022, at 7:00pm!

We have assembled an outstanding program of keynote and plenary speakers, expert lecturers, and abstract and poster presenters. At the request of the membership, the popular Top Scoring Abstract Feature, “How-to” Sessions, and Student Poster Competition will be returning for this year. Additionally, we are thrilled to offer Pre-Congress Sessions on Thursday, November 10, 2022.

The Congress program has been developed to meet the following objectives:

- Identify the unique contributions of nursing to precision health across the lifespan to foster healthy populations.
- Understand the use of holistic approaches to advance diversity, equity, and inclusion in genomic nursing.
- Incorporate the concepts of personalized health and well-being in nursing research, education, practice, and policy settings.

We encourage you to join us in Durham, North Carolina, and to explore all that the Research Triangle area has to offer. As you are enjoying the Congress, please remember the vital support of our sponsors and visit each exhibitor to learn about new and valuable contributions to precision health.

We look forward to greeting you in person!



Theresa A. Koleck, PhD, RN
2022 ISONG Congress Co-chair



Lathika Mohanraj, PhD, RN, BMTN
2022 ISONG Congress Co-chair

Thank You to Our 2022 ISONG World Congress Sponsors



FLORIDA STATE UNIVERSITY
COLLEGE OF NURSING

LOGAN
HEALTH



UConn
SCHOOL OF NURSING



Variant

2022 ISONG World Congress

Holistic Approaches to Precision Health:
Intersection of Research, Education,
Practice, and Policy

November 11 - 13, 2022 (Pre-Congress: November 10) | Durham, North Carolina, USA | isong.org



2022 ISONG World Congress Planning Committee



Theresa A. Koleck, PhD, RN, Co-chair
Assistant Professor
University of Pittsburgh
Pittsburgh, Pennsylvania, USA



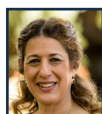
Jane Garvin, PhD, APRN, FNP-BC
Consultant
Augusta, Georgia, USA



Lathika Mohanraj, PhD, RN, BMTCN, Co-chair
Assistant Professor
Virginia Commonwealth University
Richmond, Virginia, USA



Anndra Margareth Parviainen, PhD(c), MSc
Project Researcher, Global Education Designer
University of Eastern Finland
Kuopio, Finland



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



Sara Mithani, PhD
Assistant Professor
UT Health San Antonio
San Antonio, Texas, USA



Nicole Beaulieu Perez, PhD, RN, PMHNP-BC
Postdoctoral Associate
New York University
New York, New York, USA



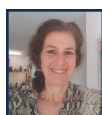
Memnun Seven, RN, PhD
Assistant Professor
University of Massachusetts Amherst
Amherst, Massachusetts, USA



Dennis J. Cheek, RN, PhD, FAHA
Abell-Hanger Professor
Texas Christian University
Fort Worth, Texas, USA



Kathleen J.H. Sparbel, PhD, APRN, FNP-BC
Clinical Associate Professor
University of Illinois at Chicago
Chicago, Illinois, USA



Efrat Dagan, RN, PhD, GCL (Genetic Counselor License)
Associate Professor
University of Haifa
Haifa, Israel



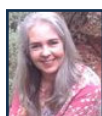
Linda D. Ward, PhD, FNP-C, CNE
Associate Professor
Clemson University
Clemson, South Carolina, USA



Sylvia S Estrada, DNP, WHNP-BC, CBCN, AGN-BC
Nurse Practitioner
Cedars-Sinai
Los Angeles, California, USA



Susan W. Wesmiller, PhD, RN, FAAN
Associate Professor
University of Pittsburgh
Pittsburgh, Pennsylvania, USA



Milena Flória-Santos, PhD, MSc, RN
Assistant Professor
University of São Paulo
Brazil

CONTINUING EDUCATION

ISONG and the University of Pittsburgh School of Nursing are collaborating to provide nursing continuing professional development (NCPD) contact hours for the educational activity entitled 2022 ISONG World Congress. The University of Pittsburgh School of Nursing is accredited as a provider of nursing continuing professional development by the American Nurses Credentialing Center's Commission on Accreditation.

2022 ISONG Congress Agenda

Thursday, November 10, 2022

9:00 AM - 12:00 PM

Pre-Congress Session A

Teaching Genomic Medicine: A Train-the-Trainer Workshop

Facilitators:

Sabrina Malone Jenkins, MD

University of Utah

Salt Lake City, Utah, USA



Additional facilitators to be announced.

1:00 PM - 4:00 PM

Pre-Congress Session B

Pharmacogenomics & the Nurse

Facilitators:

Linn Helen Hetland, PhD(c), RN, MPH

University of Technology Sydney

Sydney, New South Wales, Australia



Jane Maguire, PhD, BA, BNurs (Hons),

Grad Cert CFH, RN, MACN

University of Technology Sydney

Sydney, New South Wales, Australia



Elle Elan, PhD(c), BSc Nurs, MSc

University of Technology Sydney

Sydney, New South Wales, Australia



Additional facilitators to be announced.

3:00 PM - 6:00 PM

Board Meeting

7:00 PM - 8:00 PM

Welcome Reception

2022 ISONG Congress Agenda

Friday, November 11, 2022

9:10 AM - 9:20 AM	Opening Remarks/Housekeeping/Flag Ceremony	
9:20 AM - 9:30 AM	President's Welcome <i>Susan W. Wesmiller, PhD, RN, FAAN</i> <i>University of Pittsburgh</i> <i>Pittsburgh, Pennsylvania, USA</i>	
9:30 AM - 10:30 AM	Opening Keynote: The Potential of Precision Medicine to Change the Healthcare Paradigm <i>Lori A. Orlando, MD, MHS, MMCI</i> <i>Professor of Medicine</i> <i>Director, Center for Precision Medicine</i> <i>Duke University</i> <i>Durham, North Carolina, USA</i>	
10:30 AM - 10:45 AM	Refreshment Break and Sponsor Visit	
10:45 AM - 11:45 AM	Global Panel	
11:45 AM - 12:45 PM	Lunch Break	
12:45 PM - 1:15 PM	How-To Sessions	

TBD	TBD	TBD
-----	-----	-----

Friday, November 11, 2022 (continued)

1:15 PM - 2:15 PM

Abstract Concurrent Session A

POLICY	MATERNAL	INFLAMMATION/CYTOKINES
Genomic Database Inclusion Advocacy for an Underserved, Underrepresented Population with a History of US Research Abuse <i>Laura Hays, Mary Frances Dooley</i> <i>University of Arkansas for Medical Sciences College of Nursing, Little Rock, AR, USA</i>	Stress and DNA Methylation Among Pregnant Latinas in the EPI Study <i>Veronica Barcelona¹, Tianshu Feng², Seonjoo Lee², Catherine Monk³</i> <i>¹Columbia University School of Nursing, New York, NY, USA, ²Columbia University Department of Psychiatry, New York, NY, USA, ³Columbia University Departments of Obstetrics & Gynecology, and Psychiatry, New, NY, USA</i>	A Worse Shortness of Breath Profile in Patients Undergoing Chemotherapy Is Associated with Perturbations in Hypoxia-Inducible Factors-1 Signaling and Inflammatory Pathways <i>Joosun Shin, Christine Miaskowski, Bruce Cooper, Steven Paul, Kord Kober</i> <i>University of California, San Francisco, San Francisco, California, USA</i>
Are Informed Consents Really Informed in the Era of Precision Health? Impact Reading Level has on Consumers <i>Rebecca Kronk¹, Kim Subasic², Mary Marlett¹, Cassidy Scassa¹</i> <i>¹Duquesne University, Pittsburgh, PA, USA, ²The Citadel, Charleston, SC, USA</i>	Associations between Maternal Stress and Adversity, Infant Salivary Biomarkers, and Composition of the Infant Gut Microbiome <i>Eileen Condon¹, Sylvie Estrela²</i> <i>¹University of Connecticut School of Nursing, Storrs, CT, USA, ²Yale University, New Haven, CT, USA</i>	Associations Between Cytokine Gene Variations and Palpitations in Patients Prior to Breast Cancer Surgery <i>Ying Sheng¹, Janet Carpenter¹, Steven Paul², Kord Kober², Christine Miaskowski²</i> <i>¹Indiana University School of Nursing, Indianapolis, IN, USA, ²University of California at San Francisco School of Nursing, San Francisco, CA, USA</i>
"Mind the Gap": Genomics Nursing Workforce Development in Rural Settings <i>Jessica Dailey Haas^{1,2}, Alexis Hall³, Alexandra Nowak⁴, Emma Kurnat-Thomas⁵</i> <i>¹Hoops Family Children's Hospital at Cabell Huntington Hospital, Huntington, West Virginia, USA, ²Marshall University Department of Pediatrics (Neonatology), Huntington, West Virginia, USA, ³University of Florida, Gainesville, Florida, USA, ⁴Columbia University, New York City, New York, USA, ⁵Georgetown University, Washington D.C, District of Columbia, USA</i>	Maternal Stress During Pregnancy and the Neonatal Gut Microbiome <i>Sandra Weiss, Maryam Hamidi</i> <i>University of California San Francisco, San Francisco, California, USA</i>	Perturbations in Inflammatory Pathways Are Associated With Pain, Fatigue, Sleep Disturbance, and Depressive Symptoms in Patients With Gynecologic Cancer Receiving Chemotherapy <i>Christine Miaskowski¹, Marilyn Hammer², Bruce Cooper¹, Steve Paul¹, Kord Kober¹</i> <i>¹UCSF, San Francisco, CA, USA, ²Dana Farber, Boston, MA, USA</i>
Measuring Genomic Literacy Among Nursing Students: Data From The Genomic Nursing Cyberhub <i>Linda D Ward</i> <i>Clemson University, Clemson, SC, USA</i>	Dynamics Of Vaginal Group B Streptococcus Colonization During Pregnancy <i>Michelle Wright¹, Dennis Wylie¹, Kayla Longoria¹, Tien Nyguen¹, Sarina Garcia¹, Anne Dunlop²</i> <i>¹The University of Texas at Austin, Austin, TX, USA, ²Emory University, Atlanta, GA, USA</i>	Trajectories Of Localized And Systemic Cytokine Change Following Aneurysmal Subarachnoid Hemorrhage <i>Patrick Devlin, Xueyuan Cao, Drew Prescott, Ansley Stanfill</i> <i>University of Tennessee Health Science Center, Memphis, TN, USA</i>

Friday, November 11, 2022 (*continued*)

2:15 PM - 2:30 PM

Refreshment Break and Sponsor Visit

2:30 PM - 3:30 PM

Abstract Concurrent Session B

CLINICAL 1	SYMPTOM	EDUCATION
Pharmacogenomics in Clinical Practice: A Webinar Series <u>Trina Walker</u> Creighton University College of Nursing, Omaha, Nebraska, USA	A Prespecified Symptom Cluster Is Associated with Perturbations in Inflammatory Pathways In Outpatients Receiving Chemotherapy <u>Marilyn Hammer¹</u> , Christine Miaskowski ² , Bruce Cooper ² , Steven Paul ² , Kord Kober ² ¹ Dana-Farber Cancer Institute, Boston, MA, USA, ² University of California, San Francisco, San Francisco, CA, USA	Knowledge and Attitudes of Nurse Educators Regarding Genetics Education <u>Jennifer Palmer</u> The University of Alabama in Huntsville, Huntsville, AL, USA
Genetic Testing Outcomes Of An Advanced Practice Nurse Led Cancer Genetics Program In The Veterans Affairs <u>Lisa Aiello¹</u> , Julie Lynch ^{2,3} , Jeffrey Petersen ¹ , Ciana Anthony ¹ , Lori Hoffman-Hogg ^{4,5} , Deborah Hartzfeld ⁶ , Nevena Damjanov ^{1,7} , Kyle Robinson ^{1,7} , Yu-Ning Wong ^{1,7} , Margaret Lundquist ² , Douglass Ball ⁸ , Maren Scheuner ^{10,9} , Darshana Jhala ¹ , Kara Maxwell ^{1,7} ¹ Corporal Michael Crescenz Veterans Affairs Medical Center, Philadelphia, PA, USA, ² VA Salt Lake City Health Care System, Salt Lake City, Utah, USA, ³ University of Utah School of Medicine, Salt Lake City, Utah, USA, ⁴ VHA National Center for Health Promotion and Disease Prevention, Durham, NC, USA, ⁵ VHA Office of Nursing Services, Washington, D.C., USA, ⁶ Exact Sciences, Madison, WI, USA, ⁷ Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA, ⁸ ETH Zurich, Basel, Basel, Switzerland, ⁹ San Francisco VA Medical Center, San Francisco, CA, USA, ¹⁰ University of California San Francisco, San Francisco, CA, USA	Gastrointestinal Symptom Cluster Is Associated With Trans Regulation Of Lymphotoxin Beta (LTβ) In Oncology Patients Receiving Chemotherapy <u>Carolyn Harris¹</u> , Christine Miaskowski ^{1,2} , Bruce Cooper ¹ , Steven Paul ¹ , Yvette Conley ³ , Anand Dhruva ² , Marilyn Hammer ⁴ , Kord Kober ¹ ¹ School of Nursing, University of California, San Francisco, San Francisco, CA, USA, ² School of Medicine, University of California, San Francisco, San Francisco, CA, USA, ³ School of Nursing, University of Pittsburgh, Pittsburgh, PA, USA, ⁴ Dana-Farber Cancer Institute, Boston, MA, USA	Genetics Ethics Movie Reflection: A Novel, Fun, and Flexible Assignment Consistent with Teaching Best Practices <u>Nico Osier¹</u> , Vedin Barvé ² ¹ University of Texas at Austin School of Nursing, Austin, TX, USA, ² University of Texas at Austin College of Natural Sciences, Austin, TX, USA

Friday, November 11, 2022 (continued)

2:30 PM - 3:30 PM

Abstract Concurrent Session B (continued)

CLINICAL 1	SYMPTOM	EDUCATION
Evaluation of Family and Community Social Network Characteristics Among High-Risk Family Members To Improve Cancer-Related Health Behaviors <i>Memnun Seven, Mark C. Pachucki, Danielle Gould, Youngjoon Bae, Raeann LeBlanc, Rachel Walker</i> <i>University of Massachusetts Amherst, Amherst, MA, USA</i>	Higher Levels of Sleep Disturbance In Outpatients Undergoing Chemotherapy Are Associated With Perturbations In Neuro-Endocrine Pathways <i>Alejandra Calvo-Schimmel, Christine Miaskowski, Kate Oppegaard, Bruce A. Cooper, Steven M. Paul, Joosun Shin, Carolyn Harris, Kord M. Kober</i> <i>University of California, San Francisco, San Francisco, California, USA</i>	Precision Health/Precision Public Health: Developing a workshop to explore the knowledge gap for patients and providers <i>Sarah Dewell¹, Tina Strudsholm², Alex Lane¹, Caroline Sanders¹</i> <i>¹University of Northern British Columbia, Prince George, B.C., Canada, ²Northern Health, Prince George, B.C., Canada</i>
Interventions Aiming To Improve Informed Decision on Prenatal Screening and Testing: A Scoping Review of the Literature <i>İlknur YESILCINAR¹, Memnun SEVEN², Şeyma İnciser PAŞALAK³, Güliden GÜVENÇ⁴</i> <i>¹İzmir Katip Çelebi University, İzmir, Turkey, ²College of Nursing, University of Massachusetts Amherst, Amherst, MA, USA, ³Koç University, İstanbul, Turkey, ⁴University of Health Sciences Turkey Gülhane Nursing School, Ankara, Turkey</i>	Exploring Associations Between Metabolites, Symptoms, and Patient Reported Outcomes in Adolescents with Juvenile Idiopathic Arthritis <i>Kimberly Lewis¹, Nico Osier², Elena Flowers¹</i> <i>¹University of California San Francisco, San Francisco, CA, USA, ²The University of Texas at Austin, Austin, TX, USA</i>	Mental Health Nurses' Perspectives of the Challenges with Administration of Psychotropic Drugs <i>Anecita Gigi Lim¹, Dennis Cheek², Jed Montayre³, Sandra Thaggard⁴</i> <i>¹University of Auckland, Auckland, North Island, New Zealand, ²Texas Christian University, Texas, USA, ³Western Sydney University, Sydney, New South Wales, Australia, ⁴Auckland University of Technology, Auckland, North Island, New Zealand</i>

3:30 PM - 4:00 PM

Poster Session I

Friday, November 11, 2022 *(continued)*

4:00 PM - 5:00 PM

Abstract Concurrent Sessions - Expert Lectures

Intestinal Microbiota Signatures and Fecal Transplant in Cancer Therapy <i>Stephanie Prescott, PhD, APRN, NNP-BC, Assistant Professor, University of South Florida College of Nursing; Assistant Director, Biobehavioral lab; Special Volunteer, Laboratory of Integrative Cancer Immunology, NCI, NIH, University of South Florida College of Nursing, Tampa, Florida, USA</i>	Steps to Integration of Precision Health and Genomics into a Baccalaureate Curriculum <i>Evangeline Fangonil-Gagalang, PhD, MSN, RN, Undergraduate Nursing Program Director/Lecturer, California State University, San Bernardino, San Bernardino, California, USA</i> <i>Mary Anne Schultz, PhD, MBA, MSN, RN, Professor, California State University, San Bernardino, San Bernardino, California, USA</i>	Epigenetic Explorations of the Biological Embedding of the Social Environment for Nursing Interventions <i>Nicole Letourneau, PhD RN FCAHS FAAN, Professor, Faculty of Nursing; Research Professor, Cumming School of Medicine (Pediatrics, Psychiatry & Community Health Sciences), University of Calgary, Calgary, Alberta, Canada</i> <i>Sarah Moore, PhD, Post-doctoral Fellow, Brain and Behavior Research Foundation Young Investigator, University of Calgary, Calgary, Alberta, Canada</i>
From an Illness Model to a Wellness Model: Opportunities for Improving Psychosocial Care of Patients and Families at High Risk for Hereditary Cancer <i>Meghan Underhill-Blazey, PhD, APRN, FAAN, Assistant Professor; Nurse Practitioner, University of Rochester; Wilmot Cancer Institute, Rochester, New York, USA</i>	Leveraging Open Science, Publicly Available Datasets, and Scientific Collaborations to Advance Genomics Research: Opportunities for Nursing <i>Rose Mary Xavier, PhD, MS, RN, PMHNP-BC, Faculty/Assistant Professor, UNC Chapel Hill, Chapel Hill, North Carolina, USA</i>	Nurse-Led International Consortium on Cancer Predisposition Cascade Genetic Screening: Results and Experiences from Switzerland, Korea and Israel <i>Sivia Barnoy, RN, Ph.D., Professor, Nursing Department, Tel-Aviv University, Tel Aviv, Israel</i> <i>Efrat Dagan, RN, Ph.D., LGC., Associate Professor, The Cheryl Spencer Department of Nursing, Haifa University, Israel, Haifa, Israel</i> <i>Sue Kim, RN, Ph.D., Professor, College of Nursing, Yonsei University, Seoul, Korea</i> <i>Maria Katapodi, PhD, RN, FAAN, Professor, Department of Clinical Research, University of Basel, Switzerland, Basel, Switzerland</i>

5:00 PM - 5:30 PM

Sponsor Collaboration Meeting

Saturday, November 12, 2022

9: 15 AM - 9:25 AM

Announcements/Housekeeping

9:25 AM - 9:30 AM

President's Awards

*Susan W. Wesmiller, PhD, RN, FAAN
University of Pittsburgh
Pittsburgh, Pennsylvania, USA*



9:30 AM - 10:30 AM

**Keynote: Person-Centered Care and
Population Health: It's in Our DNA**

*Laurie M. Connors, PhD(c), DNP, FNP-BC, AGN-BC, FAANP
Professor
Vanderbilt University School of Nursing
Vanderbilt Genetics Institute
Nashville, Tennessee, USA*



10:30 AM - 10:40 AM

Presentation of Grant Awards

10:40 AM - 11:00 AM

Refreshment Break and Sponsor Visit

11:00 AM - 12:00 PM

Reviewers' Choice Abstracts

Whole-Transcriptome Differential Gene Expression and Functional Neural Markers of Response to Mindfulness-Based Stress Reduction for Cognitive Problems During Aromatase Inhibitor Therapy for Breast Cancer

John Merriman¹, Kesava Asam², Maurade Gormley¹, Gary Yu¹, Jason Fletcher¹, Gail Melkus¹, Maryann Kwa³, Carmen Perez³, Amanda Shallcross³, Mohammed Milad³, Zhenfu Wen³, Marilyn Hammer⁴, Bradley Aouizerat²

¹Meyers College of Nursing, New York University, New York, NY, USA, ²Bluestone Center for Clinical Research, New York University, New York, NY, USA, ³Grossman School of Medicine, New York University, New York, NY, USA, ⁴Phyllis F. Cantor Center, Dana Farber Cancer Institute, Boston, MA, USA

The Application of an Engagement Framework to Support Genomics-informed Nursing in Canada

Lindsay Carlsson^{1,2}, Jacqueline Limoges^{3,4}, April Pike⁵, Sarah Dewell⁶, Ann Meyer⁷, Rebecca Puddester⁵

¹University of Toronto, Toronto, Ontario, Canada, ²Princess Margaret Cancer Centre, Toronto, Ontario, Canada, ³Athabasca University, Barrie, Ontario, Canada, ⁴Ontario Cancer Research Ethics Board, Toronto, Ontario, Canada, ⁵Memorial University of Newfoundland, St. John's, Newfoundland, Canada, ⁶University of Northern British Columbia, Prince George, British Columbia, Canada, ⁷Ontario Genomics, Toronto, Ontario, Canada

Evaluation of the Quality of Online Genetic and Genomic Educational Resources for Nurses and Healthcare Providers

Karen Whitt¹, Delwin Jacoby², Mary Hanson-Zalot³, Ruth Lucas⁴

¹George Washington University, Washington, DC, USA, ²Baby Health Service, Lexington, KY, USA, ³Thomas Jefferson University, Philadelphia, PA, USA, ⁴University of Connecticut, Storrs, CT, USA

Saturday, November 12, 2022 (continued)

12:00 PM - 1:30 PM

Lunch Break and Business Meeting

1:30 PM - 2:30 PM

Concurrent Sessions - Expert Lectures

The BDNF Val66Met Polymorphism, Regular Exercise, and Cognition: A Series of Three Studies <i>Tingting Liu, PhD, RN, Associate Professor, Florida State University College of Nursing, Tallahassee, Florida, USA</i>	Dysmorphology Assessment <i>Kara Morgan, DNP, APRN, CPNP-PC, CGC, APRN, USF Health, Tampa, Florida, USA</i>
Integrating Genomic into the Nursing Curricula Using a Family Perspective <i>Marcia Van Riper, PhD, RN, FAAN, Professor, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA</i>	De-mystifying Genomics Using Popular Culture, Memes, and the Power of a Laugh <i>Elle Elan, PhD(c), BSc Nurs, MSc, University of Technology Sydney Sydney, New South Wales, Australia</i>

2:30 PM - 2:45 PM

Refreshment Break and Sponsor Visit

2:45 PM - 3:15 PM

Poster Session II

3:15 PM - 4:15 PM

Abstract Concurrent Session C

CLINICAL 2	EPIGENETICS	BIOMARKER RESEARCH
Novel de Novo Mutation In Woman With Clinical Gorlin Syndrome: A Case Study <i>Kristina Schultz-Tanner</i> <i>University Cancer and Blood Center, Athens, GA, USA</i>	Relationship Between Epigenetic Age Acceleration And Chronic Low Back Pain Status In Adults <i>Pamela Jackson¹, Bertha Hidalgo², Peng Li¹, Alana Jones³, Burel Goodin⁴, Edwin Aroke¹</i> <i>¹University of Alabama at Birmingham, School of Nursing, Birmingham, AL, USA, ²University of Alabama at Birmingham, School of Public Health, Birmingham, AL, USA, ³University of Alabama at Birmingham, School of Public Health/School of Medicine, Birmingham, AL, USA, ⁴University of Alabama at Birmingham, Department of Psychology, Birmingham, AL, USA</i>	Whole Genome Shotgun And 16S Amplicon Sequencing In Gut Microbiomes Of Preterm Infants <i>TINGTING ZHAO¹, Hongfei Li², Adam Matson^{3,4}, Shabnam Lainwala^{3,4}, Xiaomei Cong⁵</i> <i>¹School of Nursing, University of Connecticut, Storrs, CT, USA, ²Department of Statistics, University of Connecticut, Storrs, CT, USA, ³Division of Neonatology, Connecticut Children's Medical Center, Hartford, CT, USA, ⁴Department of Pediatrics, University of Connecticut School of Medicine, Farmington, CT, USA, ⁵School of Nursing, University of Connecticut, Storrs, CT, USA</i>
The DNA of Genomics Nursing: Decoding a Nursing Needs Assessment <i>Kara Mangold¹, Sunnie Confiado², Corinne Berg³, Mary Weise¹, Therese Searle³</i> <i>¹Mayo Clinic, Phoenix, AZ, USA, ²Mayo Clinic, Jacksonville, FL, USA, ³Mayo Clinic, Rochester, MN, USA</i>	Investigation Of Genetic And Epigenetic Prolactin Receptor Variants On Perception Of Breast And Nipple Pain And Lactation Insufficiency <i>Tumilara Amoo¹, Judy Brown^{1,2}, Wendy Henderson¹, Ruth Lucas¹</i> <i>¹University of Connecticut School of Nursing, Storrs, CT, USA, ²University of Connecticut Institute for Systems Genomics, Storrs, CT, USA</i>	Role of microRNAs in Patients Undergoing HCT <i>Lathika Mohanraj¹, Jinze Liu², Theresa Swift-Scanlan¹</i> <i>¹Virginia Commonwealth University School of Nursing, Richmond, VA, USA, ²Virginia Commonwealth University School of Medicine, Richmond, VA, USA</i>

Saturday, November 12, 2022 (*continued*)

3:15 PM - 4:15 PM

Abstract Concurrent Session C (*continued*)

CLINICAL 2	EPIGENETICS	BIOMARKER RESEARCH
Taking Genetics to the Primary Care Setting: Baby Health Service <u>Delwin Jacoby</u> , Shannon Million Baby Health Service, Lexington, KY, USA	Morning Fatigue Severity in Patients Undergoing Chemotherapy is Associated with Epigenetic Variation of Regulatory Regions of Genes in the Perturbed NK Cell Mediated Cytotoxicity Pathway <u>Kober Kord</u> ^{1,2} , Maureen Lewis ¹ , Caroline Le ¹ , Vasuda Dokiparthi ¹ , Bruce Cooper ¹ , Ritu Roy ¹ , Anatol Sucher ¹ , Adam Olshen ³ , Christine Miaskowski ^{1,3} ¹ UCSF School of Nursing, San Francisco, CA, USA, ² UCSF Bakar Computational Health Sciences Institute, San Francisco, CA, USA, ³ UCSF School of Medicine, San Francisco, CA, USA	Cognitive-Psychological Functioning and Saliva MicroRNA Expression after Home-based Dual-Task Exercise in Asians and Pacific Islanders with History of Mild Traumatic Brain Injury <u>Hyunhwa Lee</u> ¹ , Jinyoung Park ² , Randall Combs ¹ , Ye Eun Nam ¹ ¹ University of Nevada, Las Vegas, Las Vegas, NV, USA, ² Yonsei University, Seoul, Korea, Republic of
High Incidence of Obstructive Sleep Apnea among Youth with Down Syndrome: Importance of AAP Screening Guidelines <u>Joanna Spahis</u> UT Southwestern, Dallas, TX, USA, Children's Health, Dallas, TX, USA	The Role of the Placental Epigenome on Positive Child Health Outcomes <u>Hudson Santos</u> University of Miami, Miami, FL, USA	Microtubule Stability is a Regulator of the Circadian Timing System in Cystic Fibrosis <u>Eric Barbato</u> , Rebecca Darrah, Thomas Kelley Case Western Reserve University, Cleveland, Ohio, USA

4:15 PM - 5:00 PM

ANA Scope & Standard Fireside Chat Standards

5:00 PM

Raffle

Sunday, November 13, 2022

9:00 AM - 9:05 AM	Announcements	
9:05 AM - 9:10 AM	Student Poster Winners	
9:10 AM - 9:40 AM	Incoming President's Address <i>Laurie M. Connors, PhD(c), DNP, FNP-BC, AGN-BC, FAANP</i> <i>Professor</i> <i>Vanderbilt University School of Nursing</i> <i>Vanderbilt Genetics Institute</i> <i>Nashville, Tennessee, USA</i>	
9:40 AM - 10:25 AM	"Oh The Places You'll Go" Dr. Suess: Why Natural History Studies are Important <i>Deborah Tamura, MS, RN</i> <i>Research Nurse</i> <i>NIH/NCI/CCR/LCBG</i> <i>Bethesda, Maryland, USA</i>	
	<i>Carol Van Ryzin, RN, CPNP</i> <i>Pediatric Nurse Practitioner</i> <i>NIH/NCI/CCR/LCBG</i> <i>Bethesda, Maryland, USA</i>	
10:25 AM - 10:40 AM	Refreshment Break	
10:40 AM - 11:40 AM	Closing Keynote: Multi-Omics and Mixed-Approaches Are Needed for Precision Health <i>Hudson Santos, PhD, RN, FABMR</i> <i>Professor, Dolores J. Chambreau Endowed Chair in Nursing</i> <i>University of Miami School of Nursing & Health Studies</i> <i>Coral Gables, Florida, USA</i>	
11:40 AM	Congress Closes	

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.

Become an ISONG Member today!

Join Us!

ISONG Board of Directors



President

Susan W. Wesmiller, PhD, RN, FAAN
University of Pittsburgh
Pittsburgh, Pennsylvania, USA



Past-President

Becky Kronk, PhD, MSN, CRNP, FAAN, CNE
Duquesne University
Pittsburgh, Pennsylvania, USA



President-Elect

Laurie M. Connors, DNP, FNP-BC, AGN-BC, AOCNP, FAANP
Vanderbilt University
Nashville, Tennessee, USA



Treasurer

Lisa Aiello, PhD, RN, AOCNS
Corporal Michael Crescenz VA Medical Center
Philadelphia, Pennsylvania, USA



Secretary

Ansley Stanfill, PhD, RN
University of Tennessee Health Science Center
Memphis, Tennessee, USA



Board Member at Large

Hudson Santos, PhD, RN, FABMR
University of Miami
Coral Gables, Florida, USA



Board Member at Large

Tingting Liu, PhD, RN
Florida State University College of Nursing
Tallahassee, Florida, USA



Student Representative

Carolyn Harris, PhD(c), BSN, RN, BMTN, OCN
University of California San Francisco
San Francisco, California, USA



ISONG Executive Director

Beth A. Kassalen, MBA
Pittsburgh, Pennsylvania, USA



ISONG

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



ISONG Administrative

Amy Spikula
Pittsburgh, Pennsylvania, USA



ISONG Administrative

Robyn Quinter
Pittsburgh, Pennsylvania, USA

Special Thank You to:

Founders' Awards Committee

Rebecca Kronk, Chair
Michael Groves
Delwin Jacoby
Masakazu Nishigaki

Board Nominations Committee

Rebecca Kronk, Chair
Sarah Dewell
Kimberly Subasic

Nursing Grant Reviewers

Elena Flowers
Shannon Gillespie
Heather Hannon
Mary Hanson-Zalot
Elizabeth Hassen
Christopher Imes
Rebecca Kronk
Ruth Lucas
Katherine Maki

Maura McCall
Tina Mladenka
Alexandra Nowak
Cathy Read
Komal Singh
Karen Whitt
Janet Williams
Fay Wright

Abstract and Expert Lecture Reviewers

Peter James Abad
Lisa Aiello
Carolyn Allen
Maryann Campbell
Sharon Casavant
Laurie Connors
Elizabeth Crago
Leslie Darmofal
Anne Ersig
Jessica Haas
Wanda Hilliard
Ergie Inocian
Patricia Kelly
Cathy Koetting
Rebecca Kronk
Emma Kurnat-Thoma
Kimberly Lewis
John Merriman

Tina Mladenka
Alexandra Nowak
Catherine Read
Kathryn Robinson
Alison Ryan
Karen Saban
Joanna Spahis
Alexi Vasbinder
Jennifer Viveiros
McKenzie Wallace
Karen Whitt
Jennifer Wilder
Janet Williams
Fay Wright
Grace Wu
Rose Mary Xavier
Gee Su Yang

Posters by Poster Number (#)

***Eligible for Student Poster Award Competition**

#1 Genome-wide mRNA Expression Analysis of Acute Psychological Stress Responses

Jeongok Logan¹, Sijung Yun², Bethany Teachman¹, Yongde Bao¹, Emily Farber¹, Charles Farber¹

¹University of Virginia, Charlottesville, VA, USA, ²ZtoMed, Bethesda, MD, USA

#2 Associations Between Self-Reported Health and Wellness and Gene Expression Level Changes Among Nurses Rotating Shifts

Christopher Imes, Monica Wagner, Eileen Chasens, Yvette Conley
University of Pittsburgh, Pittsburgh, PA, USA

#3 Exploratory Study Evaluating Associations between Average Pain Intensity and Genetic Variation in People with Sickle Cell Disease

Mitchell Knisely¹, Qing Yang¹, Allison Ashley-Koch², Julia Walker¹, Paula Tanabe¹, Nirmish Shah²

¹Duke University School of Nursing, Durham, NC, USA, ²Duke University School of Medicine, Durham, NC, USA

#4 Pilot Study on Associations Between Chemotherapy-Induced Nausea and Changes in the Gut Microbiome Diversity Profiles

Komal Singh^{1,2}, Brenda Ernst¹, Cindy Tofthagen³, Parminder Singh¹, Qiyun Zhu⁴, Keenan Pituch²

¹Mayo Clinic, Phoenix, AZ, USA, ²Arizona State University, Phoenix, AZ, USA, ³Mayo Clinic, Jacksonville, FL, USA, ⁴Arizona State University, Tempe, AZ, USA

#5* The Interaction Of Childhood Trauma And DNA Methylation On Blood Pressure Among Black Women In The InterGEN Study

Yashika Sharma¹, Billy Caceres¹, Yunfeng Huang², Veronica Barcelona¹, Zeyuan Wang³, Kevin P. Newhall⁴, Jessica P. Cerdeña⁵, Cindy A. Crusto⁵, Yan V. Sun³, Jacquelyn Y. Taylor¹

¹Columbia University School of Nursing, New York, NY, USA, ²Biogen, Cambridge, MA, USA, ³Emory University, Atlanta, GA, USA, ⁴Case Western Reserve University School of Medicine, Cleveland, OH, USA, ⁵Yale School of Medicine, New Haven, CT, USA

#6 Examining The Interaction Of Adverse Childhood Events, Dental Issues, Asthma and Autism

Cathy Koetting¹, Rebecca Kronk²

¹University of Missouri-St. Louis, St. Louis, MO, USA, ²Duquesne University, Pittsburgh, PA, USA

#7* Clinical Exemplars of Genetics and Genomics in Nursing and Midwifery Practice

Joanne Swidenbank¹, Emma Tonkin¹, Deborah Lancaster¹, Mark Davies¹, Alexandra Murray²

¹University of South Wales, Pontypridd, United Kingdom, ²Genomics Partnership Wales, Cardiff, United Kingdom

#8* Genetic Variation Of DNA Repair And Oxidative Stress Genes In Women With Breast Cancer-Related Fatigue Pre-Treatment

Tara Davis, Theresa Koleck, Alex Conway, Catherine Bender, Yvette Conley

University of Pittsburgh School of Nursing, Pittsburgh, PA, USA

#9* Scoping Evidence Review of Outcomes Associated With Nurses and Midwives Using OMICS

Joanne Swidenbank¹, Calzone Kathleen², Emma Tonkin¹, Andrew Dwyer³, Christine Patch⁴, Alicia Livinski⁵, Deborah Lancaster¹, Mark Davies¹, Alexandra Murray⁶

¹University of South Wales, Pontypridd, United Kingdom, ²National Cancer Institute, Bethesda, MD, USA, ³Boston College Connell School of Nursing, Newtown, MA, USA, ⁴Genomics England, London, United Kingdom, ⁵National Institutes of Health Library, Bethesda, MD, USA, ⁶Genomics Partnership Wales, Cardiff, United Kingdom

#10 Genetics/genomics Nursing Needs Assessment in a Large Southern United States University Medical Center: More knowledge or more confidence?

Laura Hays¹, Ruofei Du², Jing Jin², Michael Anders³

¹University of Arkansas for Medical Sciences College of Nursing, Little Rock, AR, USA, ²University of Arkansas for Medical Sciences College of Public Health, Little Rock, AR, USA, ³University of Arkansas for Medical Sciences Office of Education Development, Little Rock, AR, USA

#11 NTRK2 Genotypes Are Associated With Symptom Severity After Traumatic Orthopaedic Injuries

Stephen Breazeale¹, Yvette Conley¹, Nancy Redeker², Susan Dorsey³

¹University of Pittsburgh, Pittsburgh, PA, USA, ²University of Connecticut, Storrs, CT, USA, ³University of Maryland, Baltimore, Baltimore, MD, USA

Posters by Poster Number (#)

* - *Eligible for Student Poster Award Competition*

#12 Assessing Understanding Of Core Genomic Concepts In Care Science Students At The University Of South Wales, United Kingdom

Joanne Swidenbank, Deborah Lancaster, Mark Davies, Emma Tonkin

University of South Wales, Pontypridd, United Kingdom

#13 Bitter Taste Receptor Genes Predicts Sweet Liking and Preference in Heavy Alcohol Drinkers

Khushbu Agarwal^{1,2}, Mehdi Farokhnia^{1,3}, Melanie Schwandt¹, Yupeng Wang¹, Carolyn Allen², Lorenzo Leggio^{1,3}, Paule Joseph^{1,2}

¹National Institute on Alcohol Abuse and Alcoholism, Bethesda, MD, USA, ²National Institute of Nursing Research, Bethesda, MD, USA, ³National Institute on Drug Abuse, Baltimore, MD, USA

#14* The Correlation Between Respiratory Symptoms And Inflammatory Markers In People With Cystic Fibrosis During An Acute Pulmonary Exacerbation: A Longitudinal, Secondary Analysis

Eliana Gill¹, Christopher Goss², Julie Zuniga³

¹The University of Texas at Austin, Austin, TX, USA, ²The University of Washington, Seattle, WA, USA, ³The University of Texas at Austin, Austin, Texas, USA

#15* Individualizing Cardiovascular Disease Prediction and Management Using Current And Emerging Genetic And Inflammatory Biomarkers

Emily Mewborn¹, David Wright²

¹University of Tennessee Health Science Center, Memphis, TN, USA, ²Premier Prevention, Memphis, TN, USA

#16 The Impact of Aromatase Genotypes on Functional Outcomes after Aneurysmal Subarachnoid Hemorrhage

Elizabeth Crago¹, Lacey Heinsberg², Lauren Meyer¹, Anne Fisher¹, Amy Wagner³, Yvette Conley¹

¹University of Pittsburgh School of Nursing, Pittsburgh, PA, USA, ²University of Pittsburgh School of Public Health, Pittsburgh, PA, USA, ³University of Pittsburgh School of Medicine, Pittsburgh, PA, USA

#17* Recruitment Strategies for People of Color in a Community-Engaged Bio-behavioral Study

Juliana Ochacher, Memnun Seven
UMass Amherst, Amherst, MA, USA

#18 Increasing Genomic Capacity of APRNS across the Veterans Health Administration: Development of a Cancer Genetics Nurse Training Fellowship

Lisa Aiello¹, Kara Maxwell^{1,2}, Julie Lynch^{3,4}, Lori Hoffman-Hogg^{5,6}, Kathleen Calzone⁷, Ta-Chueh Melody Rosenberg⁸, Margaret Lundquist³, Deborah Hartzfeld⁹, Dana Farengo Clark¹⁰, Robert Bruce Montgomery^{11,12}, Maren Scheuner^{13,14}, Bryson Katona², Jessica Long¹⁰

¹Corporal Michael Crescenz Veterans Affairs Medical Center, Philadelphia, PA, USA, ²Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA, ³VA Salt Lake City Health Care System, Salt Lake City, Utah, USA, ⁴University of Utah School of Medicine, Salt Lake City, Utah, USA, ⁵VHA National Center for Health Promotion and Disease Prevention, Durham, North Carolina, USA, ⁶VHA Office of Nursing Services, Washington, DC, USA, ⁷National Institute of Health, Bowie, Md, USA, ⁸VA Bronx Health Care, New York, New York, USA, ⁹Exact Sciences, Madison, WI, USA, ¹⁰Penn Medicine, Philadelphia, PA, USA, ¹¹VA Puget Sound Health Care, Seattle, WA, USA, ¹²University of Washington, School of Medicine, Seattle, WA, USA, ¹³San Francisco VA Medical Center, San Francisco, CA, USA, ¹⁴University of California San Francisco, San Francisco, PA, USA

#19 MicroRNAs Associated with Metformin Therapy Intervention in the Diabetes Prevention Program Randomized Controlled Trial in Adults at Risk for Type 2 Diabetes

Kimberly Lewis¹, Xingyue Gong¹, Bradley Aouizerat², Alka Kanaya¹, Jose Florez³, Li Zhang¹, Elena Flowers¹

¹University of California, San Francisco, San Francisco, CA, USA, ²New York University, New York City, NY, USA, ³Harvard Medical School, Boston, MA, USA