**Reviewers’ Choice Podium Abstracts**

*Project Baby Bear: The First State-funded Quality Improvement Project of rWGS in NICU and PICU*
Sara Caylor, Bryce Waldman, Wendy Benson, Shimul Chowdhury, Ami Doshi, Lauge Farnaes, Charlotte Hobbs, Stephen Kingsmore, David Dimmock
Rady Children's Institute for Genomic Medicine, San Diego, CA, USA

*Choice Architecture In The Genomic Era: Evidence Of Framing Effects On Genetic Testing Decisions*
Andrew Dwyer1,2,3, Hongjie Shen1, Matt Gregas1, Min Zhao1
1Boston College, Chestnut Hill, MA, USA, 2MGH-Harvard Center for Reproductive Medicine, Boston, MA, USA, 3Munn Center for Nursing Research at Massachusetts General Hospital, Boston, MA, USA

*Patient Outcome and NGS Database: Skimming the POND*
Elizabeth Hassen1, Amanda Hanson1, Amy Ferea1, Brendan McNeal2
1Spartanburg Regional Healthcare System, Spartanburg, SC, USA, 2Wofford College, Spartanburg, SC, USA

**Podium Abstracts**

*Characterization of Cerebrospinal Fluid DNA Methylation Age Following Subarachnoid Hemorrhage*
Lacey W. Heinsberg, Daniel E. Weeks, John R. Shaffer, Yvette P. Conley
University of Pittsburgh, Pittsburgh, PA, USA

*Caregiver Stress Accelerates Biological Aging: A Scoping Review Implicating Telomeres And Epigenetics*
Lena Lee1, Inseo La2, Alyson Ross1, Gwenyth Wallen1
1National Institutes of Health Clinical Center, Bethesda, MD, USA, 2University of Maryland School of Nursing, Baltimore, MD, USA

*Taste Changes in Patients Undergoing Chemotherapy Are Associated with Perturbations In Inflammatory Pathways*
Paule Joseph1, Steven Paul2, Bruce Cooper2, Christine Miaskowski2, Kord Kober2
1National Institute of Nursing Research, Bethesda, MD, USA, 2University of California San Francisco, San Francisco, CA, USA

*Phenotypic Characterization and Genetics of Pain Profiles in Sickle Cell Disease*
Mitchell Knisely1, Julia Walker1, Paula Tanabe1, Qing Yang1, Allison Ashley-Koch2, Nirmish Shah3
1Duke University School of Nursing, Durham, NC, USA, 2Duke Molecular Physiology Institute, Durham, NC, USA, 3Duke University School of Medicine, Durham, NC, USA
Development of a Healthcare Genetics and Genomics Graduate Certificate Program at a University in Southeastern US
Alex Sargsyan
East Tennessee State University, College of Nursing, Johnson City, TN, USA

Perturbations In Inflammatory And Neuroendocrine Pathways Are Associated With The Severity Of Cancer Related Cognitive Impairment (CRCI)
Kate Oppegaard¹, Ray Chan², Steven Paul¹, Bruce Cooper¹, Christine Miaskowski¹, Kord Kober¹
¹University of California San Francisco, San Francisco, CA, USA, ²Queensland University of Technology, Brisbane, Australia

DNA Methylomic Profiling of Preeclampsia Across the Three Trimesters of Pregnancy
Mandy Schmella, Haoyi Fu, Yvette Conley, Daniel Weeks
University of Pittsburgh, Pittsburgh, PA, USA

Reimbursement on Genetic Services Provided by Nurses
Andrea Hartgraves¹, Christine Miadenka², Karen Masino³
¹Seattle Children's Hospital, Seattle, USA, ²Idaho State University, Pocatello, ID, USA, ³Ingalls memorial Cancer Care Center, Harvey, IL, USA

Possible Acquired Gastrointestinal Polyposis In A Childhood Cancer Survivor
Cynthia Snyder¹, Patricia Bird²,³
¹Northside Hospital Gwinnett, Lawrenceville, GA, USA, ²Gwinnett Family Medical Care, Snellville, GA, USA, ³University of Phoenix Associate Faculty, Phoenix, AZ, USA

Polymorphism In A Clock Gene Is Associated With Higher Levels Of Objective But Not Subjective Levels Of Sleep Disturbance
Christine Miaskowski, Kord Kober, Bruce Cooper, Steven Paul
University of California, San Francisco, CA, USA

A Higher Symptom Burden In Patients Undergoing Chemotherapy Is Associated With Perturbations In Core Biological Pathways
Carolyn Harris, Steven Paul, Bruce Cooper, Christine Miaskowski, Kord Kober
University of California, San Francisco, CA, USA

Nursing Student Knowledge Of Genetics And Genomics: Comparing Three Countries
Sarah Dewell¹, Bobbi Laing², Gigi Lim², Linda Ward³
¹University of Calgary, Calgary, Canada, ²University of Auckland, Auckland, New Zealand, ³Clemson University, Clemson, SC, USA

Inflammatory and Immune Response Related Gene Co-expression Modules Are Associated With Evening Fatigue in Patients Undergoing Chemotherapy (CTX)
Kord Kober¹, Raymond Chan², Bruce Cooper³, Steven Paul¹, Christine Miaskowski¹
¹UCSF, San Francisco, CA, USA, ²Queensland University of Technology, Brisbane, Australia
Improving Access To Care For Children With Down Syndrome During The COVID-19 Pandemic
Joanna Spahis
Children’s Health, Dallas, TX, USA

Disturbed Sleep, DNA Methylation, and Spontaneous Preterm Birth among a Low-risk Prospective Cohort of African American Women
Shannon Gillespie, Lisa Christian, Jodi Ford, Amy Mackos, Cindy Anderson
The Ohio State University, Columbus, OH, USA

Undergraduate Nurses: Identifying Knowledge Gaps In Genetics And Genomics
Bobbi Laing¹, Gigi Lim¹, Linda Ward²
¹University of Auckland, Auckland, New Zealand, ²Clemson University School of Nursing, Clemson, SC, USA

Muir-Torre Syndrome: Identification and Management of a Rare Lynch Variant
Susan Montgomery
Fox Chase Cancer Center, Philadelphia, PA, USA

DNA Methylation In African American Women With A History Of Preterm Birth From The Intergen Study
Veronica Barcelona¹, Janitza Montalvo-Ortiz², Cindy Crusto², Jacquelyn Taylor³
¹Yale School of Nursing, Orange, CT, USA, ²Yale University, New Haven, CT, USA, ³Columbia University, New York, NY, USA

Polymorphisms in Cancer Susceptibility Genes and Cardiovascular Events in Women with Breast Cancer in the Women’s Health Initiative
Alexi Vasbinder¹, Kerryn Reding¹, Allison Kurian³, Robert Wallace⁴, Sylvia Wassertheil-Swoller⁵, Monik Jimenez⁶, Electra Paskett⁸
¹University of Washington School of Nursing, Seattle, WA, USA, ²Fred Hutchinson Cancer Research Center, Seattle, WA, USA, ³Stanford University School of Medicine, Stanford, CA, USA, ⁴University of Iowa College of Public Health, Iowa City, IA, USA, ⁵Albert Einstein College of Medicine, New York City, NY, USA, ⁶Brigham and Women's Hospital, Boston, MA, USA, ⁷Harvard Medical School, Boston, MA, USA, ⁸The Ohio State University College of Medicine, Columbus, OH, USA

Genetic Variability Of Genes Involved In The Nrf2 Antioxidant Response Element Signaling Pathway And Patient Outcomes Following A Severe Traumatic Brain Injury
Tara Davis, Lacey Heinsberg, Yvette Conley
School of Nursing, University of Pittsburgh, Pittsburgh, PA, USA

Rapid Transition from Out-Patient Genetics Clinics to Telehealth Genetics Service in Response to the 2020 COVID 19 Pandemic: Utilization of Rogers Diffusion of Innovations
Delwin Jacoby, Jess Belcher
University of Kentucky, Lexington, KY, USA
Beauty and the Beast: Fairy Tale or Genetic Based Condition
Delwin Jacoby
University of Kentucky, Lexington, KY, USA

Case Report of a Rare Genetic X-Linked Condition Presenting with Unusual Cutaneous Lesions
Delwin Jacoby, Miriam Bunch
University of Kentucky, Lexington, KY, USA

Test/Retest Reliability of a Turkish Version of the Genetics and Genomics in Nursing Practice Survey (GGNPS)
İlknur YESILCINAR¹, Memnun Seven², Eda SAHIN³, Kathleen Calzone⁴
¹Izmir Katip Celebi University Health Sciences Faculty, Izmir, Turkey, ²University of Massachusetts Amherst College of Nursing, Amherst, MA, USA, ³Giresun University Health Science Facultality Sciences Facultyy, Giresun, Turkey, ⁴National Cancer Institute Center for Cancer Research, Genetics Branch, Bethesda, MD, USA

A Potential Phenotype Of Genetic Risk For Breastfeeding Pain For Breast And Nipple Pain In Breastfeeding Women.
Ruth Lucas, Yiming Zhang, Stephen Walsh, Angela Starkweather, Erin Young
University of Connecticut, Storrs, CT, USA

A Systematic Review of Global Initiative to Unravel Genetic Factors Associated with Susceptibility and Severity in the COVID-19 Pandemic
Theresa Wadas
University of Alabama, Tuscaloosa, AL, USA

Educational Interventions to improve Nurses’ competency in Genetics and Genomics: A Scoping Review
Basil Zureigat, Danielle Gould, Carrie-Ellen Briere, Memnun Seven
UMass-Amherst, Amherst, MA, USA

Training Programs at NINR and the Symptom Science Center: Leveraging Partnerships and Promoting Scholarship
Pamela Tamez
NIH/NINR, Bethesda, MD, USA

Utilization Of Epigenome-wide DNA Methylation For Longitudinal Comparison Of Leukocyte Proportions Across Preeclamptic And Normotensive Pregnancy
Mitali Ray, Lacey Heinsberg, Yvette Conley, Daniel Weeks, Mandy Schmella
University of Pittsburgh, Pittsburgh, PA, USA

Predicting Neurodevelopmental Outcomes of Preterm Infants Using Multi-Omic Measures: A Pilot Study
Sharon Casavant, Xiaomei Cong
University of Connecticut, Storrs, CT, USA
Analytic Characteristics and Performance of Novel Immunoassay Point-of-Care Tests for Early Diagnosis of Sickle Cell Disease
Cheedy Jaja¹, Lori Vick¹, Emily Thurmond¹, Robert Gibson², Joseph Edem-Hotah³
¹University of South Carolina, Columbia, SC, USA, ²Augusta University - Medical College of Georgia, Augusta, GA, USA, ³College of Medicine and Allied Health Sciences, Freetown, Sierra Leone

Epigenetic Age and Frailty in Hematopoietic Stem Cell Transplantation Patients
Lathika Mohanraj¹, Theresa Swift Scanlan¹, Lana Sargent¹, Amir Toor², Mikhail Dozmorov²
¹Virginia Commonwealth University School of Nursing, Richmond, VA, USA, ²Virginia Commonwealth University School of Medicine, Richmond, VA, USA

Personalized Medicine Decision Making in a Virtual Clinical Setting
Patricia Brennan¹, Rhonda Ramirez², Valerie Dzubur³, Stacey Culp³, Susan Persky⁴, Vence Bonham⁴, Kathleen Calzone⁵
¹University of California, San Francisco, San Francisco, CA, USA, ²Samuel Merritt University, Oakland, CA, USA, ³West Virginia University, Morgantown, WV, USA, ⁴National Human Genome Research Institute, Bethesda, MD, USA, ⁵National Cancer Institute, Bethesda, MD, USA

Teaching Genetics With A Sense Of Salience For The Advanced Practice Nurse
Ruth Lucas
University of Connecticut, Storrs, CT, USA

Methodologic Considerations for Epigenetic Investigation of Preterm Birth, Neighborhood Disorder, and Distress in Pregnant African American Women
Alexandra Nowak¹, Carmen Giurgescu², Amy Mackos¹, Cindy Anderson¹
¹The Ohio State University, Columbus, OH, USA, ²University of Central Florida, Orlando, FL, USA

Combining Omics and “Home’ics”: A Longitudinal Analysis of C-Reactive Protein, Lipoprotein (a), and Lifestyle Behaviors in Pregnancy
McKenzie Wallace
University of Pittsburgh, Pittsburgh, PA, USA