Research Day 2023
Achieving Optimal Health Across the Lifespan
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<tr>
<td>8:00 - 9:00 am</td>
<td>Registration and Light Breakfast</td>
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<td>First Poster Session Set-Up</td>
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<tr>
<td>9:00 - 9:05 am</td>
<td><strong>WELCOME:</strong> Bill Farquhar, PhD, FACSM</td>
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<td>Dean, UD College of Health Sciences</td>
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<tr>
<td>9:05 - 9:10 am</td>
<td><strong>REMARKS:</strong> Eric Wommack, PhD</td>
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<td>Associate Vice President, UD Research Office</td>
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<td>9:10 - 9:15 am</td>
<td><strong>INTRODUCTION OF DR. SOUTHWELL:</strong></td>
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<td>Jennifer Horney, PhD, MPH, CPH - Founding Director, Epidemiology Program</td>
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<td>9:15 - 10:15 am</td>
<td><strong>KEYNOTE:</strong> Medical Misinformation as a Barrier in Optimal Health in Older Populations</td>
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<td>Brian Southwell, PhD – Senior Director, Science in the Public Sphere Program in the Center for Communication Science at RTI International</td>
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<td>10:15 - 10:45 am</td>
<td>1-minute Podium Poster Pitches</td>
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<td>10:45 - 11:00 am</td>
<td>Coffee Break</td>
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<tr>
<td>11:00 am - 12:00 pm</td>
<td>First Poster Session</td>
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<td>12:00 - 1:00 pm</td>
<td>Lunch</td>
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<td>1:00 - 1:05 pm</td>
<td><strong>INTRODUCTION OF DR. ERICKSON:</strong></td>
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<td>Chris Martens, PhD – Director, Delaware Center for Cognitive Aging Research &amp; Associate Professor, Kinesiology &amp; Applied Physiology</td>
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<tr>
<td>1:05 - 2:00 pm</td>
<td><strong>KEYNOTE:</strong> Effects of Exercise on Brain Health</td>
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<td>Kirk Erickson, PhD – Director, Translational Neuroscience at Advent Health Research Institute</td>
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<td>2:00 - 2:30 pm</td>
<td>1-minute Podium Poster Pitches</td>
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<td>2:30 - 3:30 pm</td>
<td>Second Poster Session</td>
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<td>3:30 - 3:45 pm</td>
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2 Mitochondrial CD36 expression is increased in endothelial cells exposed to elevated glucose in Vitro
Erica Johnson, Nguyen, T., Fancher, I.

4* Real-time PCR Tick Pathogen Testing Program in Delaware
Michael Buoni

6 Structure-mediated sorting of circular and linear RNA cargo into EVs
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8 Identification and characterization of the role of non-coding RNAs in spastic cerebral palsy
Brigette Romero Carpio, Hoque, P., Robinson, K., Lee, S., Akins, R., Batish, M.

10 Structural analysis of crosstalk between Type I and Type III CRISPR systems
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12* Apiaceous vegetables decrease acrolein-induced pro-inflammatory cytokines in a mouse model of atherosclerosis
Brandy Le, Kim, J.K., Trabulsi, J.

14* Application of Computational Biology to Decipher the Impact of ABCA4 Genetic Variants in Macular Degenerative Disease Prognosis
Senem Cevik*, Cevik S., Biswas S.B., Biswas-Fiss, E.

16 CircFISH- a novel method for simultaneous imaging of linear and circular RNAs
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18 Human Papillomavirus (HPV) DNA replication initiation mediated by E1 and E2 proteins
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20 Accelerating Vector Optimization for Cell Line Development in CHO Cells Using Site Specific Integration
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22* Separation of Nucleotides Based on Charge Using AmberChrom Fine Mesh Ion Exchange Resin
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24 Association between Peak VO 2 and Sodium-induced Changes in Vascular Function
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26* Diet Quality, Endothelial Function, and Blood Pressure Variability in Healthy Young Adults
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30* Role of physical activity and aerobic capacity in nocturnal blood pressure dipping after sodium loading
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34 Sensory Nerve Mediated Dilation is Blunted in Postmenopausal Women
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36 Aerobic exercise training attenuates the peak blood pressure response to exercise in chronic kidney disease
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40 Associations between Physical Activity and Arterial Stiffness in Middle-Aged Women
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50 The effect of metabolic factors on symptoms and function recovery in patients with Achilles tendinopathy
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80 Toy Properties Impact the Exploratory Behavior of Infants
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84* The effects of healthy aging on upper- and lower-limb force control
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Grace Chesley, Wagatsuma, M., Mihy, J., Hafer, J.

88* Sensory Re-weighting While Walking
Stephen DiBianca, Julia Gray, John Jeka, Hendrik Reimann

90* Cervical Cancer Screening in Patients with HIV, Dar es Salaam, Tanzania: Comparing effectiveness of peer-navigator and community health workers for screening and digital follow-up
Adam Bitunguramye, Jennifer Horney

92* Using Epidemiologic Methods to Quantify Disease Burden in Complex Emergencies: Applications to disaster epidemiology
Sarah Elizabeth Scales

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96 The Associations between Place-Based Measures of Walkability and Physical Activity across a Range of Diverse Streetscapes
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100 The Development of a Conceptual Framework for Inclusive Fitness for Adults with Intellectual Disability
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102* Examining Sedentary Behavior in Adults with Intellectual Disabilities Living in Group Homes: Study Protocol & Preliminary Results
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110 Clinical Health Coaching- Pregnant and Postpartum Women (CHC-PPW) Year 2 Implementation
Rachel Samson, T, Leonard., E. Orsega Smith

112* Sociodemographic and other characteristics of infants in the United States by milk feeding type: NHANES 2007-2018
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114* Associations Between Food Insecurity and Sleep in Preschool Children and their Parents
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116 Circadian Timing of Sleep and Eating Relative to Biological Timing Using Dim Light Melatonin Onset (DLMO) Methodology
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Sabita Rokka, Emma Hudgins, Adam Bonar, Ibra S Fancher

Structural Analysis of Swarming Motility in Bacilli
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Gabrielle Dammers, Justin Rowe, Kimberly Walker Ph.D., MT(ASCP), and Daniel White PT, ScD, MSc

Structure-Function Analysis of ABCA4 Membrane Transporter: Development of a Soluble Model System
Albtool Alturkestani, Albtool Alturkestani, Esther E. Biswas-Fiss, and Subhasis Biswas

Gut Microbiome Dysbiosis in an Animal Model of Stuttering: Rationale and Experimental Design
Sayan Nanda, Nanda, S., Lamot, B., Guarino, N., Usler, E., Chugani, D., Dutta, A., Chow, HM.

Molecular basis of interaction between the HPV E2 protein and its binding site variants
Roxanne Evande, Subhasis Biswas

In Silico and Functional Analyses of the ECD2 Domain of ABCA4 and its Role in Inherited Macular Degeneration
Jazzlyn Jones, Biswas S., Biswas-Fiss E.

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25* Effect of menstrual cycle phase on wave reflections and wasted pressure effort in premenopausal women
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27 Characterizing Short-Term Linear and Nonlinear Heart Rate Variability (HRV) in Duchenne and Becker Muscular Dystrophy

29 Graded Exercise Tests in People with Stroke: How Much do Neuromuscular Factors Influence Results?
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31 Sodium density associates with nighttime systolic blood pressure in young healthy adults
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33* Psychological and Physiological Responses to a 10-Week Internal Cues Intervention with an Experiential Meal: A Case Series

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37* Effects of bioidentical hormone therapy on endothelial function and blood pressure
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39 Effects of Bioidentical Hormone Therapy on Blood Pressure Variability in Menopausal Women
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47* Metabolic Factors Impact Structural Adaptations During Exercise Treatment in Patients with Achilles Tendinopathy
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49* Prevalence of Medical Co-Morbidities in Diabetic Athletes and Comparison of Preseason Concussion Test Battery Outcomes in Intercollegiate Athletes
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51 Calf Size in Patients with Unilateral Midportion Achilles Tendinopathy
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53 Pickleball Motivation Among Physically Active Older Adults
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55* Evaluating differences between runners and non-runners with midportion Achilles tendinopathy: A cross-sectional study
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57 Analyzing Sparta Score over the course of a season for collegiate contact athletes using Sparta Science
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59* Caregiver Mental Health Symptoms and Objective Sleep Quality in Socioeconomically Disadvantaged Families
Rayne Roberts, Patterson, F., Covington, L.

61* Establishing the DementiaBank Protocol: Using Big Data to Understand Language Changes in Dementia
Anna Saylor, Cohen, M.L., Fromm, D., MacWhinney, B., & Lanzi, A.M.

63* Feasibility, Acceptability, and Preliminary Efficacy of the MIND/MOVE Yourself Program to Reduce Stress Among College Students with Intellectual Disabilities
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71 The Effects of Ankle-Foot Orthosis Stiffness on Ankle Biomechanics during Walking in Participants Post-Stroke
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87 Improvements in somatosensation and dynamic balance during postural transitions with the use of stochastic resonance stimulation in an individual with cerebral palsy – a case study

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79 The Effect of Digital/Virtual Motor Interventions on Motor, Social, and Cognitive Outcomes in Individuals with Various Developmental Disorders with and without Intellectual Disability: A Systematic Review
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81 Low initial motor unit firing rates reduce rates of force development in people with Parkinson’s disease
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83 Using a tablet device to understand spatial and temporal measures of the upper limb in individuals post-stroke
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89* Is There A Relationship Between Self-Reported Joint Health And Objective Stair Performance In Adults With Knee Osteoarthritis?
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91 Characteristics of Individuals Affected by COVID-19 More Than Four Weeks After Initial Diagnosis – An All of Us (AoU) Cohort Analysis
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93* Assessing the Feasibility and Health Behavior Outcomes of a Community-Based Group Health Coaching for Cancer Survivors Program
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95* Assessing The Pathway Between Health Care Utilization And Hypertensive Outcomes Among Young Adult African American Medicaid Beneficiaries In Delaware
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97 Health for All: Impacts on New Castle County, Delaware Residents, Organizations, and College of Health Science Students
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99* Associations of Socioeconomic Position and Supplemental Nutrition Assistance with Exposures to Endocrine-Disrupting Chemicals
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107 Cancer and the family: Diversity in Family Structure among Individuals with Cancer: Variations by Sex and Race/Ethnicity
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113* Day-to-day Associations between Nightly Sleep, Sedentary Behavior and Physical Activity in Under-resourced Caregiver-Child Dyads
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Samantha Weatherford, Hiebert, L., Weatherford, S., Van Horne, A.
ACKNOWLEDGEMENTS

Thank you to all the individuals who made today possible.

Research Advisory Committee
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Jee Won Park – EPI
Shannon Robson – BHAN
Evan Usler – CSCD
Megan Wenner – KAAP
Dan White – PT