HUMAN BIOLOGY DISTINGUISHED MAJOR PROGRAM
CAPSTONE SYMPOSIUM

Wednesday, May 2, 2018
Gilmer Hall Room 141

Time  Speaker
8:00 am  Welcome – Dr. Michael P. Timko, Director, Human Biology Program
8:15  Laura Ann Pierce
Evaluation of a Tele-Voice Therapy Program
Advisors: David Cattell-Gordon, Director of the Office of Telemedicine, Director of the Rural Network Development, Co-Director of the Healthy Appalachia Institute, and Joanna Lott, CCC-SLP, Singing Voice Therapist, Department of Otalaryngology, Head, and Neck Surgery, University of Virginia School of Medicine
8:30  Kelly Elizabeth McCain
Evaluation of Adherence to Point-of-Use Water Treatment Technologies in a Randomized Controlled Trial in Limpopo, South Africa
Advisors: Elizabeth T. Rogowski, PhD, MSPH, Department of Public Health Sciences, University of Virginia School of Medicine, and David Taylor, PhD Candidate, Department of Mechanical Engineering, MIT
8:45  Peyton Jacqueline McElhone
Anxiety and Stress Disorders: A Heightened Emotional State Decreases Plasticity-related Gene Expression in the Hippocampus
Advisor: Randy A. Jones, PhD, RN, FAAN, University of Virginia School of Nursing
9:00  Katherine Lindstrom Pardo
Investigation of Type-1 Diabetes Risk Factors in the 17q21.31 Region of the Human Genome
Advisors: Stephen S. Rich, PhD, and Suna Onengut-Gumuscu, PhD, Center for Public Health Genomics, University of Virginia School of Medicine
9:15  Ugochinyerey Krystal Ejesieme
Sleep Deprivation among Adolescents: Correlations and Associations with Obesity
Advisor: Aaron Pannone, PhD, Department of Public Health Sciences, University of Virginia School of Medicine
9:30  Christian Dornier Goodwin
Employee Engagement in Long-term Care: Examining the Relationship between Employee Engagement and Quality Outcomes in Long-term Care Facilities
Advisor: R. Edward Howell, MS, Department of Public Health Sciences, University of Virginia School of Medicine
9:45  Claire Marie Romaine
The Young Adult Action Research Team (YAART): Promoting Gender Minority Health, Well-being, and Community Partnership
Advisor: Julia F. Taylor, MD, General Pediatrics, University of Virginia School of Medicine
10:00  Charles Ryan Siegel
Attitudes, Awareness, and Knowledge Concerning Out-of-Hospital Cardiac Arrest and Cardiopulmonary Resuscitation (CPR) Techniques, Efforts, and Effectiveness
Advisor: David R. Burt, MD, Department of Emergency Medicine, University of Virginia School of Medicine
10:15  Erica Helena Crawford
Accessing Provider and Program Affiliates’ Perceptions Regarding Cervical Cancer Screening under the Virginia “Every Woman’s Life” Program
Advisor: Emma M. Mitchell, PhD, MSN, RN, Family, Community & Mental Health Systems, University of Virginia School of Nursing
10:30  Michael David Knapp
Re-expression of Pluripotency Factors in Isolated hPSC-derived Neurons for the Study of Somatic Mosaicism in the Human Brain
Advisor: Michael J. McConnell, PhD, Department of Biochemistry and Molecular Genetics, University of Virginia School of Medicine
10:45  Patricia Guadalupe Gallegos
The Effects of Access to Primary Healthcare on the Use of Long-acting Reversible Contraception in US Adolescents
Advisor: Aaron Pannone, PhD, Department of Public Health Sciences, University of Virginia School of Medicine
11:00  Doris Farje
Impact of Stressful Family on Infant Neurodevelopment: An Analysis of PSI and BINS Scores
Advisor: Linda Bullock, PhD, RN, FAAN, Family, Community & Mental Health Systems, University of Virginia School of Nursing
11:15  Mareike Anna Haaren
Purifying Out Parasites: Improving Lysis and Separation Methods Using P. falciparum
Advisor: Jennifer L. Guler, PhD, Department of Biology
11:30  Connor Ashton Graham
Understanding the Characteristics of Phase One Pediatric Oncology Clinical Trials
Advisor: Jessica Keim-Malpass, PhD, RN, Acute & Specialty Care, University of Virginia School of Nursing and Department of Pediatrics, University of Virginia School of Medicine
11:45  Jesse Benjamin Persily
Probing the Molecular Underpinnings of Liver Metastasis in a Murine Model of Pancreatic Cancer
Advisor: Todd W. Bauer, MD, Department of Surgery, University of Virginia School of Medicine
12:00 pm  Charlotte Bettie Gemes
What is Stopping Mothers from Breastfeeding Their Infants According to Guidelines during the First 6-Months? A Comparison of Zambian, Rwandan, and American Breastfeeding Practices
Advisor: Joann M. McDermid, PhD, RD, MS, Division of Infectious Diseases and International Health, University of Virginia School of Medicine
12:15  Kelly Ruth McNult
Physician Behavior as a Determinant of Patience Experience in an ED Setting
Advisor: Chris A. Ghaemmaghami, MD, Department of Emergency Medicine, University of Virginia School of Medicine
12:30  Christine Rita Vincent
A Comparison of SCARED Anxiety Questionnaire Responses in UVA Child and Family Psychiatry Clinic Patients and Their Guardians
Advisor: Vishal Madaan, MD, MBBS, Child and Family Psychiatry, University of Virginia School of Medicine
12:45  Philip Herman Schroeder
Relative Mortality Analysis of the “Golden Hour”: A Comprehensive Acuity Stratification Approach to Address Disagreements in Current Literature
Advisor: Jeffrey S. Young, MD, Director, UVA Trauma Center, Co-director Surgical Critical Care, Department of Anesthesiology, University of Virginia School of Medicine
1:00  Final Comments and Adjournment