School of Public Health and Health Sciences

24th Annual Research Day

April 16, 2021
Now in its 24th year, SPHHS Research Day is an annual showcase for the research and practice conducted by students in all of our departments. Undergraduate and graduate students, as well as postdoctoral researchers, are invited to present their work to the faculty, staff, peers, and the broader community.

Both oral and poster presentations are judged by a faculty jury and prizes awarded in distinct categories. Two $1,500 travel awards will be issued to the best oral presentations – one from a public health discipline (Environmental Health Sciences, Biostatistics and Epidemiology, Health Policy and Promotion), and another from a health science discipline (Nutrition, Communication Disorders, Kinesiology). Several poster awards will be awarded for best poster presentations.

Winners will be announced live by Distinguished Professor Susan Hankinson, Associate Dean of Research for the School of Public Health and Health Sciences, at 3PM.

LINKS AND ACCESS

The live portions of Research Day (including the dean's welcome, the oral presentations, and the awards announcement) will be held via Zoom.

- Join Zoom meeting: https://umass-amherst.zoom.us/j/94493413745?pwd=aDVjNURDUUtcpVY4TTBHTWx3TFNRQT09
- Meeting ID: 944 9341 3745
- Passcode: 655434

The poster session will be held on Flipgrid. UMass-based users can access all posters and narratives at www.flipgrid.com/sphhsresearchday (NetID required).

Non-UMass based users can access posters through www.flipgrid.com/d0c1e580 and click on “Enter Your Guest Password”. The guest password has been shared with faculty, staff, and students in the School of Public Health and Health Sciences for distribution.
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<th>Time</th>
<th>Event</th>
<th>Presenter(s)</th>
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<tr>
<td>1:00PM</td>
<td>WELCOME AND INTRODUCTION</td>
<td>SPHHS DEAN ANNA MARIA SIEGA-RIZ</td>
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<td></td>
<td><strong>STUDENT ORAL PRESENTATIONS (ZOOM, 10 MINUTES EACH)</strong></td>
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<td>Hospital-Farm partnership does more than increase access to fresh produce during COVID19: Lessons learned for the long-term</td>
<td>HEATHER KIZNER, NUTRITION</td>
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<td></td>
<td>The Association between Sociodemographic, Dietary, and Health-Related Variables and Overestimation of Diet Quality among U.S. Adults: An Examination of the National Health and Nutrition Examination Survey (NHANES)2007-2010 Data</td>
<td>KIARA AMARO-RIVERA, NUTRITION</td>
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<td>1:05PM</td>
<td><strong>Time to Contact Captures Declines in Postural Control Following Fatiguing Activity</strong></td>
<td>ROSS BRANCATI, KINESIOLOGY</td>
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<tr>
<td>1:05PM –</td>
<td>Paternal preconception plasticizer alters sperm methylome and embryonic programming</td>
<td>OLADELE OLUWAYIOSE, ENVIRONMENTAL HEALTH SCIENCES</td>
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<td>2:15PM</td>
<td><strong>Characteristics of Women and Association with Intrapartum Experiences by Continuity of Provider Type: Results from the Listening to Mothers in California Survey</strong></td>
<td>BRITTANY RANCHOFF, HEALTH PROMOTION AND POLICY</td>
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<td>The Impact of a Lifestyle Intervention on Pregnancy and Postpartum Cardiovascular and Insulin Resistance Biomarkers among At-Risk Latinas</td>
<td>KATHRYN WAGNER, BIOSTATISTICS AND EPIDEMIOLOGY</td>
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<td>The effect of aphasia ID cards on neurotypical comprehension of aphasic language</td>
<td>COLLEEN WARD, COMMUNICATION DISORDERS</td>
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<td>2:15PM</td>
<td>POSTER SESSION</td>
<td>AVAILABLE ON FLIPGRID</td>
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<tr>
<td>3:00PM</td>
<td>RESEARCH DAY AWARDS (ZOOM)</td>
<td>ASSOCIATE DEAN OF RESEARCH SUSAN HANKINSON</td>
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</tbody>
</table>
ORGANIZING COMMITTEE

Katherine Boyer, Associate Professor of Kinesiology
Megan Gross, Assistant Professor of Communication Disorders
Airín Martínez, Assistant Professor of Health Promotion and Policy
Richard Peltier, Associate Professor of Environmental Health Sciences
Jing Qian, Associate Professor of Biostatistics and Epidemiology
Lisa Troy, Associate Professor of Nutrition

And a special thanks to Sarah Gonzalez Nahm (Assistant Professor, Nutrition) for help with judging.

ORAL PRESENTATIONS

Heather Kizner, Nutrition, MS
Hospital-Farm partnership does more than increase access to fresh produce during COVID19: Lessons learned for the long-term
Faculty Sponsor: Lisa Troy

Kiara Amaro-Rivera, Nutrition, PhD
The Association between Sociodemographic, Dietary, and Health-Related Variables and Overestimation of Diet Quality among U.S. Adults: An Examination of the National Health and Nutrition Examination Survey (NHANES)2007-2010 Data
Faculty Sponsor: Elena Carbone

Ross Brancati, Kinesiology, PhD
Time to Contact Captures Declines in Postural Control Following Fatiguing Activity
Faculty Sponsor: Katherine Boyer

Oladele Oluwayiose, Environmental Health Sciences, PhD
Paternal preconception plasticizer alters sperm methylome and embryonic programming
Faculty Sponsor: Richard Pilsner

Brittany Ranchoff, Health Promotion and Policy, PhD
Characteristics of Women and Association with Intrapartum Experiences by Continuity of Provider Type: Results from the Listening to Mothers in California Survey
Faculty Sponsor: Laura Attanasio

Kathryn Wagner, Biostatistics and Epidemiology, PhD
The Impact of a Lifestyle Intervention on Pregnancy and Postpartum Cardiovascular and Insulin Resistance Biomarkers among At-Risk Latinas
Faculty Sponsor: Lisa Chasan-Taber

Colleen Ward, Communication Disorders, MA
The effect of aphasia ID cards on neurotypical comprehension of aphasic language
Faculty Sponsor: Jennifer Mack
POSTER PRESENTATIONS: PRACTICE CATEGORY

Samantha Hano, Public Health Sciences, BS
Providing access to medications and other treatment for opioid use disorder in a district court: Lessons learned from the first year of implementation
Faculty Sponsor: Elizabeth Evans

Klara Matouskova, Environmental Health Sciences, PhD
Towards a Paradigm Shift in Environmental Health Decision-Making: A Case Study of Oxybenzone
Faculty Sponsor: Laura Vandenberg

POSTER PRESENTATIONS: RESEARCH CATEGORY

Olatunbosun Kayode Arowolo, Environmental Health Sciences, PhD
Synergy in gene expression affected by chemicals and COVID-19
Faculty Sponsor: Alexander Suvorov

Catherine Askew, Biostatistics and Epidemiology, PhD
A 20-year prospective study of plasma c-peptide as a risk marker of breast cancer development
Faculty Sponsor: Susan Hankinson

Colleen Beatrix, Biostatistics and Epidemiology, MPH
Sexual orientation differences in the association between psychological distress and cardiovascular outcomes: 2013-2017 National Health Interview Survey (NHIS)
Faculty Sponsor: Nicole VanKim

Makena Caron, Public Health Sciences, BS
Identification of diseases most sensitive to chemical exposures
Faculty Sponsor: Alexander Suvorov

Colleen Chase, Kinesiology, PhD
Family Dog Ownership and Youth Physical Activity Levels: A scoping review.
Faculty Sponsor: Katie Potter

John Chase, Kinesiology, PhD
Sleep Measurement Using Wrist-Worn Accelerometer Data Compared to Polysomnography.
Faculty Sponsor: John Sirard

Emily Fernandes, Public Health Sciences, BS
A Novel Replicon-RNA Vaccine to Treat Peanut Allergy
Faculty Sponsor: Laura Francis

Eugene Garland, Health Promotion and Policy, PhD
Effects of Moral Injury on Suicide in Combat Veterans
Faculty Sponsor: Ning Zhang
**Brittany Griffin, Biostatistics and Epidemiology, PhD**
The Association between Neighborhood Crime and Adverse Birth Outcomes in Latina Women
Faculty Sponsor: Lisa Chasan-Taber

**Lindsay Hohenberg, Communication Disorders, BS**
Self-disclosure of aphasia: The research problem and future directions
Faculty Sponsor: Jennifer Mack

**Anna Kohlberg, Public Health Sciences, BS**
Burning Wood in the Asthma Capital of the U.S.
Faculty Sponsor: Mark Hamin

**Karli LeFort, Nutrition, BS**
Bifidobacterium adolescentis utilizes hydrolyzed plant proteins as a primary nitrogen source
Faculty Sponsor: David Sela

**Ting-Chun Lin, Nutrition, PhD**
The Influence of High-Fat Diet in Early Life on Intestinal Tumorigenesis in APC1638N Mice
Faculty Sponsor: Zhenhua Liu

**Katharine MacIsaac, Biostatistics and Epidemiology, MPH**
The Association Between Pre-Existing Depression and Breast Cancer Incidence and Mortality
Faculty Sponsor: Susan Hankinson

**Emily Marques, Environmental Health Sciences, Postdoctoral Researcher**
Nrf2 protects the developmental redox status in the liver of the developing zebrafish (Danio rerio) embryo
Faculty Sponsor: Alicia Timme-Laragy

**Alexs Matias, Kinesiology, MS**
Reproducibility of alkaline inorganic phosphate (Pialk) quantification using 31P-Magnetic Resonance Spectroscopy (31P-MRS) at 3T
Faculty Sponsor: Gwenael Layec

**Joshua Mogus, Environmental Health Sciences, PhD**
Exposure to the endocrine disrupting chemical, propylparaben, induces long-term disruption to parity-induced reorganization of the mouse mammary gland
Faculty Sponsor: Laura Vandenberg

**Brent Momb, Kinesiology, PhD**
Chronic Kidney Disease Induced Muscle Myopathy is Related to Hemoglobin Status
Faculty Sponsor: Mark Miller

**Brian Monihan, Biostatistics and Epidemiology, MS**
Birthweight and risk of Autoimmune and Thyroid Conditions Within the Women’s Health Initiative.
Faculty Sponsor: Cassandra Spracklen

**Joshua Nugent, Biostatistics and Epidemiology, PhD**
Examining shifts in mobility on COVID-19 case rates in U.S. counties
Faculty Sponsor: Laura Balzer
Madhuri Palnati, *Biostatistics and Epidemiology, PhD*
Baseline Characteristics of Hispanic women with Pregnancy Hyperglycemia: Estudio Parto
Faculty Sponsor: Lisa Chasan-Taber

Susan Park, *Biostatistics and Epidemiology, PhD*
Impact of COVID-19 on Physical Activity in Pregnant Women using Objective Measures
Faculty Sponsor: Lisa Chasan-Taber

Andy Rodriguez-Sanchez, *Biostatistics and Epidemiology, MS*
Examining the Co-Infection Effects of Helminth and Malaria in an Indonesian Community
Faculty Sponsor: Youssef Oulhote

Monika Roy, *Environmental Health Sciences, PhD*
Does Nrf2 play a role in the developmental toxicity of the sulfate metabolite of 3,3’-dichlorobiphenyl (PCB-11)?
Faculty Sponsor: Alicia Timme-Laragy

Victoria Salemme, *Environmental Health Sciences, BS*
Disease Categories Associated with Pathways and Genes Highly Sensitive to Chemical Exposure
Faculty Sponsor: Alexander Suvorov

Nora Salo, *Biostatistics and Epidemiology, MPH*
An Analysis of the Relationship Maternal Depression and Preterm Birth Risk Among Racial and Ethnic Groups
Faculty Sponsor: Cassandra Spracklen

Gillian Szabo, *Public Health Sciences, BS*
Development and application of tools to evaluate the effects of environmental estrogens on the male mouse mammary gland
Faculty Sponsor: Laura Vandenberg

Jyotika Vallurupalli, *Kinesiology, BS*
Acute Effects of Heat Therapy on Vascular Function in COVID-19 Survivors
Faculty Sponsor: Gwenael Layec

Gabriela Vieyra, *Biostatistics and Epidemiology, PhD*
Association between Phthalates Exposure and Adiposity, as Measured by Visceral and Subcutaneous Adipose Tissue, among Postmenopausal Women
Faculty Sponsor: Katherine Reeves

Kate Wallace, *Health Promotion and Policy, BS-MPH*
Perceptions of the COVID-19 pandemic among college students in the U.S.: implications for young adult health
Faculty Sponsor: Sarah Goff

Angus Wong, *Biostatistics and Epidemiology, MS*
Evaluating public masking mandates on COVID-19 growth rates in U.S. states
Faculty Sponsor: Laura Balzer
Sam Zeff, Kinesiology, PhD
Anticipation, head movement control and visual awareness in collegiate soccer players
during change of direction tasks while running
Faculty Sponsor: Richard Van Emmerik