

DRAFT
University-Wide Ignite Research Colloquium - - Interdisciplinary Health Sciences
Friday, January 22, 2021
Agenda

2:00 – 2:10

Welcome

- Irem Tumer, Vice President for Research
- Tuba Özkan-Haller, Associate Vice President for Research Administration and Development

Moderators

- Tuba Özkan-Haller, Associate Vice President for Research Administration and Development
- Marie Harvey, Associate Dean of Research, CPHHS

2:10 – 2:45

Theme: Harnessing Big Data to Advance Health Sciences Research

Session 1 5 presentations, Q & A

- David Hendrix ~ *Discovery and Visualization of Patterns in The Diurnal Transcriptome of Aging Drosophila Melanogaster Heads*
- Yumie Takata ~ *Using Electronic Health Record Data for Cancer Epidemiological Studies*
- Yevgeniy Kovchegov ~ *C-SHIFT Algorithm: Developing A Novel Normalization Method*
- Timothy Warren ~ *Quantitative Approaches to Studying Long-Distance Insect Dispersal*
- Denise Hynes ~ *Using A National COVID-19 Shared Data Resource to Examine Long Term Sequelae for Hospitalized Patients NEW TITLE*

Session 2 4 presentations, Q & A

- Harold Bae ~ *Uncovering the Genetic Architecture of Complex Polygenic Diseases Using Genome-Wide and Whole Genome Sequence Data*
- Weng-Kee Wong ~ *Spatio-Temporal Machine Learning for Health Sciences Research*
- Melissa Haendel ~ *Harnessing the Nation's EHR Data to Combat COVID-19 NEW TITLE*
- Tao Li ~ *Use Claims Data in Interdisciplinary Research*

2:45 – 3:15

Theme: Food Insecurity and Safety

Session 1 5 presentations, Q & A

- Susanne Brander ~ *Microplastics In Seafood and Other Routes of Human Exposure: Where Do We Go from Here?*
- Jennifer Durringer ~ *Supporting Food Safety in Oregon's Agricultural Commodities Through Toxicant and Natural Product Monitoring*
- James Watson ~ *Fragility of The World's Food Systems*
- Allison Myers ~ *Linn Wellness in Neighborhood Stores (WINS): Addressing Food Insecurity Through Store-Based Changes*
- Siew Sun Wong ~ *Augmented Experiential Learning for Healthy Eating & Active Living Promotion*

Session 2 5 presentations, Q & A Samuel Chan ~ *Don't Pack A Pest for Academic Travelers*

- Christina DeWitt ~ *Seafood for Your Health!*
- Si Hong Park ~ *Understanding of Microbiome to Enhance Food Safety and Quality*
- Sarah Rothenberg ~ *Mercury and Methylmercury Exposure*
- Ningjian Liang ~ *The Development of Edible Microalgae Protein with Improved Yield and Digestibility by Fermentation*

3:15 – 3:45 **Theme: Innovative Approaches for a Planet in Crisis**

Session 1 3 presentations, Q & A

- Chris Hagen ~ *The Future of Active Mobility*
- Erica Fleishman ~ *Climate Science and Equitable Improvements in Oregon's Public Health*
- Perry Hystad ~ *Opportunities for Linking Natural Systems Change to Human Health*

Session 2 4 presentations, Q & A

- Adam Kent ~ *Ultra Trace Measurements of Metal Abundances and Isotopic Composition to Support Studies in Human Health*
- Brodie Pearson ~ *Forecasting Environmental Stressors with Next-Generation Earth System Models*
- Ben Dalziel ~ *Nowcasting The Prevalence Of SARS-Cov-2 Infections in Cities*
- Jamon Van Den Hoek ~ *From Pattern to Process: A Landscape-Based Paradigm for Conflict and Humanitarian Analysis*

3:45 – 5:00 **Theme: Cause, Prevention, Management, and Treatment of Disease**

- **Session 1 5 presentations, Q & A** Jesse Dietch ~ *Assessment and Cognitive-Behavioral Treatment of Sleep Disorders*
- Andy Karplus ~ *The GCE4All Center: Unleashing the Potential of Genetic Code Expansion for Biomedical Research*
- Siva Kolluri ~ *Toxicology to Therapeutics*
- Xiangyou Shen ~ *Play to Cope: The Role of Play and Playfulness in Resilient Coping During the COVID-19 Pandemic*
- Veronica Irvin ~ *Interval Breast Cancers*

Session 2 5 presentations, Q & A

- Sean Newsom ~ *An Introduction to The Translational Metabolism Research Laboratory (TMRL)*
- Emily Plackowski ~ *Rare Diseases, Disorders, and Disabilities*
- BJ Philmus ~ *Natural Products Biosynthesis and Synthetic Biology*
- Jay Kim ~ *Work-Related Musculoskeletal Disorders and Their Prevention Through Intervention*
- Jim Myers ~ *Breeding Vegetables for Human Health & Nutrition*

Session 3 5 presentations, Q & A

- Oleh Taratula ~ *Multifunctional Nanomedicine Platforms for Imaging and Treatment of Cancer and Endometriosis*
- Katherine Mclaughlin ~ *Sampling Hidden Populations at High Risk for Infectious Diseases*
- Emily Ho ~ *Dietary Influences on Inflammation and Cancer Prevention*
- Maude David ~ *Diet, Microbiota and Mental Health: Hope or Hype?*
- Maria Clara Franco ~ *Redox Signaling as A Source of Novel Therapeutic Targets*

Session 4 5 presentations, Q & A Thomas Sharpton ~ *Do Environmental Perturbations to The Microbiome Underlie the Rise in Chronic Diseases? NEW TITLE, New Theme*

- Paulina Kaiser ~ *Research Opportunities with Samaritan Health Services*
- Kerry Mcphail ~ *Medicines and Biomedical Molecular Probes from the Sea*
- Kenton Hokanson ~ *Electrophysiological Experiments to Uncover Disease Mechanisms and Treatments*
- Arup Indra ~ *Preclinical Model of Human Diseases: From Vitiligo to Melanoma*

5:00 – 6:00 **Reception & Networking**