***DRAFT***

***University-Wide Ignite Research Colloquium - - Interdisciplinary Health Sciences***

**Friday, January 22, 2021**

**Agenda**

2:00 – 2:10 **Welcome**

* 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 I: Harnessing Big Data to Advance Health Sciences Research**

**Facilitator:** Brett Tyler, Director, Center for Genome Research & Biocomputing

**Session I 3 presentations, Q & A**

* Melissa Haendel ~ *Harnessing the Nation's EHR Data to Combat COVID-19*
* Yumie Takata ~ *Using Electronic Health Record Data for Cancer Epidemiological Studies*
* Timothy Warren ~*Quantitative Approaches to Studying Long-Distance Insect Dispersal*

**Session 2 3 presentations, Q & A**

* David Hendrix ~ *Discovery and Visualization of Patterns in The Diurnal Transcriptome of Aging Drosophila Melanogaster Heads*
* Harold Bae ~ *Uncovering the Genetic Architecture of Complex Polygenic Diseases Using Genome-Wide and Whole Genome Sequence Data”*
* Tao Li ~ *Use Claims Data in Interdisciplinary Research*

2:45 – 3:15 **Theme II: Food Insecurity and Safety**

**Facilitator:** Joyce Loper, Associate Dean, College of Agricultural Sciences

**Session I 4 presentations, Q & A**

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

**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 III: Innovative Approaches for a Planet in Crisis**

**Facilitator:** Jack Barth, Executive Director, Marine Studies Initiative

**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**

**Facilitator**: Emily Ho, Director, Linus Pauling Institute (Sessions 1 and 2)

Fred Stevens, Associate Dean of Research, Pharmacy (Sessions 3 and 4)

**Session I 6 presentations, Q & A**

* Kenton Hokanson~ *Electrophysiological Experiments to Uncover Disease Mechanisms and Treatments*
* Jessee Dietch ~ *Assessment and Cognitive-Behavioral Treatment of Sleep Disorders*
* Xiangyou Shen~ *Play to Cope: The Role of Play and Playfulness in Resilient Coping During the COVID-19 Pandemic*
* Kerry Mcphail~*Medicines and Biomedical Molecular Probes from the Sea*
* Paulina Kaiser~ *Research Opportunities with Samaritan Health Services*
* Denise Hynes ~ *Using A National COVID-19 Shared Data Resource to Examine Long Term Sequelae for Hospitalized Patients*

**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?*
* Siva Kolluri ~ *Toxicology to Therapeutics*
* Andy Karplus ~ *The GCE4All Center: Unleashing the Potential of Genetic Code Expansion for Biomedical Research*
* Arup Indra~*Cell-Cell Signaling: Prognostic Biomarkers and Therapeutic Targets- From Inflammatory Skin Diseases to Cancer*
* Veronica Irvin ~ *Interval Breast Cancers*

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