



**Center for Human Genomics  
and Precision Medicine**

UNIVERSITY OF WISCONSIN  
SCHOOL OF MEDICINE AND PUBLIC HEALTH

**Annual Precision Medicine Symposium**

**Date:** Wednesday, October 12, 2022

**Time:** 8am – 6:00pm

**Location:** HSLC 1335, Atrium, 1220, 1222, 1134

Time	Session	Session Agenda
8-9am Atrium	Breakfast and Networking	
9:00-9:10	Introduction	Muhammed Murtaza
9:15-9:55	Plenary Session:	Stephen Meyn Title: Center/Institutional Update in Precision Medicine
10:00-10:20		Elizabeth Kearney Title: UWHealth Update in Precision Medicine
10:25-10:45		Saiju Pyarajan All of Us voucher awardee panel  <i>Idiopathic Hypersomnia in All of Us: Prevalence, Comorbidities and Genetic Polymorphisms</i> , David Plante  <i>Determining Long Covid Characteristics Using All of US Workbench</i> , PI: Dane Cook  Qiongshi Lu: <i>Producing Polygenic Risk Scores for Hundreds of Human Complex Traits Using All of Us</i>  Dawda Jawara: <i>Assessing weight trends in the All of Us Research Program Dataset</i>  Irene Ong: <i>Characterizing genetic and clinical variable interactions and their importance in estimating the risk of developing breast or ovarian cancers in women</i>
10:45-12pm Atrium	Poster session & Lunch	
<b>Concurrent Session 1</b>		
12-1:30 HSLC 1220	Rare Diseases Stephen Meyn	<b>Research:</b> Bryn Webb (12:00 - 12:30) “Molecular Methodologies to Diagnose and Better Understand Rare Disease”
		<b>Clinical:</b> Kim Keppler-Noreuil (12:30-1:00) Characterization of the Phenotypic Spectrum of Somatic KRAS Variants, a Mosaic RASopathy
		<b>Proffered:</b> Hara Levy (1:00 - 1:15) “Characterization of the cystic fibrosis transmembrane conductance regulator–associated lncRNAs in the innate immune response in cystic fibrosis”
12-1:30 HSLC 1222	Cancer Genomics Mark Burkard	<b>Research:</b> Wei Xu (12:00 - 12:30) CTR9 mutations in Wilms Tumors: Mechanisms and Therapeutic opportunities
		<b>Clinical:</b> Hau Lee (12:30 - 1:00) Precision medicine for Wilms tumor - a surgical perspective
		<b>Proffered:</b> Patrick Schwartz (1:00 - 1:15)



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		“Circadian Clock Dysfunction Drives Poor Survival in Pancreatic Ductal Adenocarcinoma”
12-1:30 HSLC 1134	ELSI Rachel Grob	<b>Research:</b> Susan Passmore (12:00 - 12:35) Understanding Trustworthiness in Decisions to Participate in Genomics Research among African Americans in Wisconsin
		<b>Clinical:</b> Mark Schlesinger, Professor of Health Policy at Yale (12:35 - 1:10) Genetic Science Meets Policy Cascades: The Complex Origins of Disparities in Diagnostic Benefits from Precision Medicine
		<b>Discussion:</b> (1:10 – 1:30)
<b>Concurrent Session 2</b>		
1:45-3:15 HSLC 1220	Interventional Genomics Kris Saha	<b>Research:</b> Gaelen Hess (1:45 - 2:15) High-throughput functional genomics for studying fundamental biology and improving human health
		<b>Clinical:</b> Christian Capitini (2:15 – 2:45) Virus-free, CRISPR-CAR T cells for GD2+ solid tumors
		<b>Proffered:</b> Jenna Schmidt (2:45 – 3:00) “Whole genome sequencing of CCR5 CRISPR-Cas9-edited Mauritian cynomolgus macaque blastomeres”
1:45-3:15 HSLC 1222	Novel Diagnostics Muhammed Murtaza	<b>Research:</b> David Beebe (1:45 - 2:15) Can Engineered Organotypic Models Predict Patient-Specific Response?
		<b>Clinical:</b> Angela Gibson (2:15 – 2:45) Lighting the way for necrosis excision through indocyanine green fluorescence-guided surgery
		<b>Proffered:</b> Ksenija Bernau (2:45 – 3:00) “ <sup>64</sup> Cu-PEG-FUD for non-invasive, early detection of murine-induced pulmonary fibrosis”
1:45-3:15 HSLC 1134	Population Health Genomics Mei Baker	<b>Research:</b> Corrine Engleman (1:45 - 2:15) Polygenic risk for Alzheimer’s disease
		<b>Clinical:</b> Lee Lochbaum Eckhardt (2:15 – 2:45) “Methods and mechanisms for Functional Genomics to keep pace with genetic variant identification”
		<b>Proffered:</b> Deborah Chasman (2:45 – 3:00) “Breastfeeding and Farming Lifestyle Promotes Predominant Bifidobacterium in Infants”
3:15-3:30pm Atrium	15-minute break	
3:30-4:30pm HSLC 1335	Keynote Address	Paul Lambert How Insights Gained from Studying Papillomaviruses Helped Us Understand Cancer Resistance to Immunotherapy
4:30-6pm	Posters/Social Hour	Collaboration Idea Lab