



# Precision Medicine and Health Disparities Summit

Monday, March 27, 2017

## Agenda

9:30-10:00 a.m.	CHECK-IN	Atrium
10:00-10:10 a.m.	<b>Welcome</b> <i>Paula M. Termuhlen, M.D.</i>	Room 142
10:10-10:40 a.m.	<b>An Overview of Precision Medicine and the Minnesota Precision Medicine Collaborative</b> <i>Pamala A. Jacobson, Pharm.D.</i>	Room 142
10:40-11:10 a.m.	<b>The Minnesota 10,000 Families Project</b> <i>Logan G. Spector, Ph.D.</i>	Room 142
11:10-11:40 a.m.	<b>An Overview of Large-Scale Biobanking Initiatives for Precision Medicine in the US</b> <i>Catherine A. McCarty, Ph.D., M.P.H.</i>	Room 142
11:40-12:00 p.m.	BREAK	Room 142
12:00-12:30 p.m.	<b>Research in Health Disparities: Developing Researcher-Community Collaborations</b> <i>James Allen, Ph.D. and J. Neil Henderson, Ph.D.</i>	Room 142
12:30-1:00 p.m.	<b>Successful Precision Medicine Community-Based Participatory Research in the Hmong Population: Lessons Learned</b> <i>Robert J. Straka, Pharm.D.</i>	Room 142
1:00-2:00 p.m.	LUNCH BREAK	Room 146/148
1:10-2:00 p.m.	Executive Session for Tribal Chairmen & Representatives and the University (by invitation only)	Room 165

BREAKOUT SESSIONS		
2:00-2:50 p.m.	<b>Cultural Sensitivities Related to Biobanking and EHR Access</b> <i>Led by Catherine A. McCarty, Ph.D., M.P.H., and Mary J. Owen, M.D.</i>	Room 130
2:00-2:50 p.m.	<b>Cultural Sensitivities Related to Precision Medicine Technologies</b> <i>Led by Heather A. Zierhut, Ph.D., M.S. and Gerald August, Ph.D.</i>	Room 142
3:00-3:50 p.m.	<b>Impact of Precision Medicine in Rural Health</b> <i>Led by Paula M. Termuhlen, M.D. and Ruth Westra, D.O., M.P.H.</i>	Room 130
3:00-3:50 p.m.	<b>Impact of Precision Medicine on Pediatric Populations</b> <i>Led by Oscar Garza, Ph.D., and Ellen W. Demerath, Ph.D.</i>	Room 142
3:50-4:00 p.m.	<b>Concluding Remarks and Next Steps</b> <i>Paula M. Termuhlen, M.D.</i>	Room 142

## Speaker Bios

**James Allen, Ph.D.**, is Professor of Biobehavioral Health and Population Sciences at the University of Minnesota Medical School, Duluth Campus. He is a licensed psychologist with interests in individual and family therapy. His current studies explore the effectiveness of culturally grounded preventive strategies for suicide, substance use, and health promotion; youth and community level resilience; prevention of vascular risk; cultural issues in health services; and community-based participatory research. For almost two decades our team has collaborated in a research relationship with Alaska Native community partnerships to discover Alaska Native pathways to sobriety and reasons for life as a positive framework for suicide and substance abuse prevention.

**Gerald August, Ph.D.**, is Professor of Family Social Science and Director of the Center for Personalized Prevention in Children's Mental Health at the University of Minnesota. He has devoted much of his 30-year academic career to studying and working with children and adolescents with attention deficit hyperactivity disorder (ADHD). He is developing prevention programs targeted to individual subjects through the Institute for Translational Research in Children's Mental Health (ITR), of which he is a co-director.

**Ellen W. Demerath, Ph.D.**, is Professor of Epidemiology & Community Health in the University of Minnesota School of Public Health. She co-leads the Minnesota Precision Medicine Collaborative, a Grand Challenges initiative. Her research interests include the developmental origins of chronic disease, with an emphasis on obesity, body composition, and cardiovascular disease risk factors in infancy and childhood.

**Oscar Garza, M.B.A., Ph.D.**, is Assistant Professor of Pharmaceutical Care & Health Systems and Director of the PRAXIS Institute for Community Health and Education at the University of Minnesota College of Pharmacy, Twin Cities Campus. He is trained in economic, social and administrative pharmacy, global health and health services research. Dr. Garza received his doctoral degree in pharmaceutical socioeconomics from the University of Iowa and his MBA in finance, marketing and international business from University of Toledo. He has worked with rural and urban communities in Latin America and Minnesota to develop health education and health promotion initiatives. Dr. Garza's research focuses on the economic, historical, institutional, and socio-cultural determinants of global health and health policy; and how they shape our approaches to improving health-care through the provision of pharmaceutical care and through community health research.

**J. Neil Henderson, Ph.D.**, is Executive Director of the Memory Keepers Medical Discovery Team, University of Minnesota Medical School, Duluth Campus. He is Oklahoma Choctaw. Dr. Henderson's research areas focus on aging issues of American Indian people. Specifically, his work is on dementia caregiving, biological and cultural influences regarding recognition and treatment of dementia and diabetes, cultural constructions of disease, and community health interventions and education in the context of cultural diversity. He has conducted bio-cultural research on Alzheimer's disease in American Indian tribes, developed Alzheimer's support groups in African-American and Spanish-speaking populations, and conducted geriatric health care education for American Indian providers across the United States. The themes of his research are the prevention of disease, reduction of health disparities, and the building of healthier lives among the youth, adults, and elders in culturally diverse populations.

**Pamala A. Jacobson, Pharm.D.**, is Professor of Experimental and Clinical Pharmacology and Director of the Institute of Personalized Medicine at the University of Minnesota College of Pharmacy, Twin Cities Campus. She co-leads the Minnesota Precision Medicine Collaborative, a Grand Challenges initiative. Her research interests are concentration and dose response relationships; pharmacokinetics, pharmacogenetics, and pharmacodynamics of immunosuppressants; anticancer agents; stem cell transplantation and organ transplant.

**Catherine A. McCarty, Ph.D., M.P.H.**, is Associate Dean for Research and Professor of Biobehavioral Health and Population Sciences at the University of Minnesota Medical School, Duluth Campus. She was previously principal research scientist and director of the research division at Essentia Institute of Rural Health. Prior to that, she was at the Marshfield Clinic Research Foundation, where she was PI for the Personalized Medicine Research Project, a population-based biobank with more than 20,000 adult participants and 20 active research projects.

**Mary J. Owen, M.D.**, is Director of the Center of American Indian and Minority Health and Assistant Professor of Family Medicine and Community Health at the University of Minnesota Medical School, Duluth Campus. Her medical interests include OB, rheumatology, and diabetes.

**Logan G. Spector, Ph.D.**, is Professor of Pediatrics and Director of Epidemiology and Clinical Research in the University of Minnesota Medical School, Twin Cities Campus. His research focuses on the causes of childhood leukemia, hepatoblastoma, and osteosarcoma. He works in collaboration with colleagues and trainees locally, nationally and internationally through the University of Minnesota, Children's Oncology Group and the International Agency for Research on Cancer. In addition, Dr. Spector collaborates with departmental colleagues in endocrinology, cardiology, and neonatology to study other pediatric outcomes.

**Robert J. Straka, Pharm.D.**, is Professor and Department Chair of Experimental and Clinical Pharmacology at the University of Minnesota College of Pharmacy, Twin Cities Campus. His research has focused primarily on optimizing the use of therapeutic agents for the prevention and treatment of cardiovascular disease by investigating pharmacogenetic, pharmacokinetic, and pharmacodynamic sources of variability in response. His research has also included investigation of ethnicity-based sources of drug response variability.

**Paula M. Termuhlen, M.D.**, is Professor of Surgery and Regional Dean of the University of Minnesota Medical School, Duluth Campus. Dr. Termuhlen is a graduate of St. Louis University School of Medicine and completed her general surgery training at the University of Texas Health Science Center in Houston. Dr. Termuhlen subsequently completed the Surgical Oncology fellowship at MD Anderson Cancer Center. After three years on the faculty at the University of Nebraska, she was recruited to Wright State University in Dayton, Ohio in 2001, where she remained until 2011 when she joined the faculty in the Department of Surgery at the Medical College of Wisconsin. While at the Medical College of Wisconsin, she led the development team for the creation of two new regional campuses in Green Bay and Central Wisconsin. In April 2015, she assumed the role of Regional Campus Dean for the University of Minnesota Medical School Duluth Campus, serving over 120 students and 40 faculty members in the mission of training physicians for rural and Native American communities.

**Ruth Westra, D.O., M.P.H.**, is Associate Professor and Department Chair of Family Medicine and Community Health at the University of Minnesota Medical School, Duluth Campus. She also serves as interim head of the Department of Biomedical Health and Population Sciences, directs the obstetrical longitudinal elective and Rural Academy of Leadership courses for first- and second-year medical students, and serves as Rural Physician Associate Program faculty and faculty advisor to the student-run HOPE Clinic. Before joining the Duluth campus in 2001, she worked in OB private practice as a medical clinic coordinator at Iron Range VA Medical Center in Michigan and at Twin Ports VA Outpatient Clinic in Wisconsin. Her expertise is in academic medicine, preventive health, health promotion and education, women's health, and rural medicine.

**Heather A. Zierhut, Ph.D., M.S.**, is Assistant Professor of Genetics, Cell Biology, and Development and is the Associate Director of the Graduate Program in Genetic Counseling at the University of Minnesota. Her current research is focused on genetics in public health screening programs, implementations of whole genome sequencing, and outcomes of genetic counseling.