

UW Annual Tuberculosis Symposium Agenda

Cutting-edge developments in tuberculosis research

Wednesday, May 8, 2024; 8:30am-3pm PDT

McKinstry Auditorium, Seattle Children’s Building Cure - [1920 Terry Ave. Seattle 89101](https://www.seattlechildrens.org/locations/1920-Terry-Ave-Seattle-89101)

8:30-9:00		Breakfast
9:00-9:05		Rhea Coler, PhD MD, Professor, Department of Pediatrics, University of Washington School of Medicine; Senior Investigator, Center for Global Infectious Disease Research (CGIDR), Seattle Children’s SEATRAC Introduction
Session I		<i>Tanya Parish, PhD</i>
9:05-9:35		Manuja Sharma, PhD, Head of Solutions Architecture, WaveWorks <i>A passive cough classifier for tuberculosis screening with a controlled dataset</i>
KEYNOTE: 9:35-10:35		Sabine Ehrt, PhD, Professor / Chair, Weill Cornell School of Medicine <i>Applying bacterial genetics to understand, treat and prevent tuberculosis</i>
10:35-11:00		Break
Session II		<i>Sylvia LaCourse, MD MPH</i>
11:00-11:30	 	James (“Jay”) Miller, MD MPH, Regional Medical Officer, Washington Dept of Health Moon Choi-McInturff, PhD MPH, Epidemiologist, Tuberculosis Program, Washington Dept of Health <i>Responding to a large tuberculosis outbreak in the Washington state prison system</i>
11:30-12:00		Karen Wolf, MS DVM DACZM, Head Veterinarian, Point Defiance Zoo & Aquarium <i>Diagnosis and Management of Tuberculosis in 2 Asian Elephants: a Collaborative Approach to Protecting Employee Safety While Preserving Animal Wellbeing</i>
12:00-1:30		Lunch
Session III		<i>Paul Drain, MD MPH FIDSA</i>
1:30-2:00		Sarah Iribarren, PhD BSN, Associate Professor, Institute for Clinical Effectiveness and Healthcare Policy, Buenos Aires, Argentina, Biobehavioral Nursing and Health Informatics <i>A digital adherence technology to support individuals with TB: Results from a pragmatic trial and participant experiences</i>
2:00-2:30		Jerry Cangelosi, PhD, Associate Dean for Research, School of Public Health; Professor, Department of Environmental and Occupational Health Sciences <i>Reinventing tuberculosis case detection, from oral sampling to analysis to action</i>
2:30-2:50		Chetan Seshadri, MD, Associate Professor, Departments of Medicine, Division of Allergy & Infectious Diseases, Department of Global Health, UW <i>Thank you & Symposium Survey</i>

Manuja Sharma, PhD is Head of Solutions Architecture at WaveWorks Technologies, a UW spinout specializing in the development of innovative wireless sensor systems. Holding a PhD in Electrical & Computer Engineering from the University of Washington, Dr. Sharma's research intersects machine learning, sensor technology, and health, focusing on designing systems that utilize bio-physical, chemical, and audio signals for disease screening and health monitoring. She has authored over 12 peer-reviewed articles with her work featured in high-impact journals and conferences such as Science Advances, IEEE, ACM, and SPIE. Dr. Sharma's significant contributions include the development of a non-invasive optical pH measurement device for oral health and a machine learning-based audio screening tool for pulmonary tuberculosis.

Sabine Ehrh, PhD received a Ph.D. in Microbiology from the Friedrich-Alexander University of Erlangen-Nürnberg, Germany. As a postdoctoral fellow she started to work on Mycobacterium tuberculosis at Cornell University Medical College and continued her research at the University of California at Berkeley. Dr. Ehrh joined the faculty in the Department of Microbiology and Immunology at Weill Cornell Medical College in 1999. She is a recipient of an Irma T. Hirsch Career Scientist Award, an Excellence in Mentoring Award from the Weill Cornell Medicine (WCM) Postdoctoral Association and an Outstanding Teaching and Mentoring Award from the WCM Graduate School. She co-chairs the Immunology and Microbial Pathogenesis Graduate Program and is passionate about mentoring junior scientists. She is an elected fellow of the American Academy of Microbiology, and her research focuses on the interaction of M. tuberculosis with its host to identify new targets for chemotherapeutic intervention and new strategies for tuberculosis vaccine development.

James ("Jay") S. Miller, MD, MPH currently serves as a Regional Medical Officer at the Washington State Department of Health and as a Clinical Assistant Professor at the University of Washington where he works at the Harborview Medical Center After Care Clinic. At the Department of Health, he supports the Southwest region as well as Department of Health work on correctional health, tuberculosis, mpox, and COVID-19. He received his A.B. from Harvard College in History and Science, his medical degree from Harvard Medical School, and a Master's in Public Health from the London School of Hygiene and Tropical Medicine. He completed Internal Medicine residency and Global Medicine fellowship at the Massachusetts General Hospital. He then completed the CDC Epidemic Intelligence Service program.

Moon Choi-McInturff, PhD MPH is an epidemiologist with the Washington Department of Health Tuberculosis Program. She primarily works supporting contact investigations and TB genotyping surveillance. She received her B.S. from the University of California, San Diego in Microbiology, her Master in Public Health degree from the University of California, Los Angeles in Epidemiology, and her Ph.D. from the University of California, Berkeley in Epidemiology. She previously worked for the San Mateo County Department of Public Health in California for nearly a decade as an epidemiologist, where she worked on outbreak and contact investigations while also providing agency-wide epidemiologic support.

Karen Wolf, MS, DVM, DACZM is the head veterinarian at Point Defiance Zoo & Aquarium in Tacoma, WA. She received a master's degree from the University of Maryland in partnership with the Smithsonian National Zoo focusing on the reproductive physiology of the endangered black footed ferret. She earned her Doctorate in Veterinary Medicine (DVM) from the Virginia Maryland Regional College of Veterinary Medicine. After receiving her DVM, she completed two year-long internships, one in small animal medicine and the other in zoological medicine at Kansas State University. She then completed a three-year residency program in zoological medicine at North Carolina State University. Dr. Wolf is board-certified in zoological medicine, and she serves as the veterinary advisor for the endangered red wolf recovery program. Her clinical interests include inflammatory bowel disease in red wolves, and she especially enjoys developing innovative care plans for aging zoo animals.

Sarah Iribarren, PhD BSN, focuses on developing innovative patient-centered approaches to bridge gaps between patients and health care professionals to improve clinical outcomes. In particular, her efforts have focused on TB and HIV prevention and treatment management within low- and middle-income settings and amongst disadvantaged populations. Dr. Iribarren is currently the Principal Investigator of an NIH K23 (K23NR017210) to develop, and pilot test, the TB-Treatment Support Tools mobile intervention and MPI on an NIH R01 (R01AI147129) to further refine the intervention and evaluate its impact by a randomized controlled trial. She is also a co-investigator on a PAHO funded study to understand the utilization of health services and the needs for sexual and reproductive health of Venezuelan migrant women in Quito, Ecuador.

Jerry Cangelosi, PhD is a Professor and Associate Dean in the University of Washington School of Public Health. His research teams have generated 10 patents and >100 publications in relevant areas including tuberculosis, NTMs, COVID-19, oral microbiology, and water-borne pathogens. These activities share strong emphases on translation and global health impact. Dr. Cangelosi's team pioneered tongue swabbing as a novel, non-invasive tuberculosis screening method which is now in expanded clinical studies worldwide. In spring 2020, amidst the first waves of the SARS-CoV-2 pandemic, his team also helped demonstrate non-invasive COVID-19 screening methods that were implemented globally. Dr. Cangelosi teaches University of Washington courses on infectious diseases and environmental change.