



THE UNIVERSITY OF ARIZONA
HEALTH SCIENCES

One Health

ONE HEALTH INITIATIVE

Roy P. Drachman Hall
1295 N. Martin Avenue
PO Box 210202
Tucson, AZ 85721-0202

Ofc: 520-626-5330
Fax: 520-626-1460

ONE HEALTH WINTER 2025 SYMPOSIUM
The UA Student Union North Ballroom
Friday, February 7, 2025
AGENDA

8:30 am – 9:00 am Continental Breakfast

OPENING REMARKS

9:00 am – 9:05 am Frank von Hippel
Director, One Health Research Initiative

PILOT PROJECTS / POSTDOCTORAL FELLOWS

9:05 am – 11:35 pm

POSTER PRESENTATIONS

11:35 pm – 12:05 pm Graduate Research Fellows

LUNCH

12:05 pm – 12:45 pm

PILOT PROJECTS / POSTDOCTORAL FELLOWS

12:45 pm – 3:15 pm

KEYNOTE ADDRESS

3:15 pm – 3:20 pm Introduction, Kristen Pogreba Brown
Associate Professor, Mel & Enid Zuckerman College of Public Health

3:20 pm – 4:15 pm Nothing in Valley Fever makes sense except in the light of One Health
David Engelthaler
*Professor and Director of Division of Immunology and Microbial Genomics
TGen North*

CLOSING REMARKS

4:15 pm – 4:20 pm Frank von Hippel

RECEPTION

4:20 pm – 6:30 pm The University of Arizona Student Union, North Ballroom (Atrium)



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PRESENTATIONS: PILOT PROJECTS / POSTDOCTORAL FELLOWS

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|---------------------|---|
| 9:05 am - 9:20 am | Detection and remediation of PFAS by counterplotting PFAS transport mechanisms in the human body
SeungJu Choi |
| 9:20 am - 9:35 am | Chemical modification and repurposing of blister beetle toxins to treat cancer
Kevin Andre Scott |
| 9:35 am - 9:50 am | Impacts of heat stress on ADME processes
Paxton Sample |
| 9:50 am - 10:05 am | Impact of a prior SARS-CoV-2 infection on the vaginal microenvironment
Paweł Łaniewski |
| 10:05 am - 10:20 am | Q & A |
| 10:20 am - 10:35 am | One breathe in the wake of wildfires: dust generation and contaminant exposures from the release and remobilization of contaminants
Mónica Ramírez-Andreotta |
| 10:35 am - 10:50 am | Animal models of adverse respiratory and reproductive health effects of environmental fire smoke exposure
Zelieann R. Craig |
| 10:50 am - 11:05 am | Exposure to toxic metal(loid)s via breastmilk and stunting in infants living in the Lake Atitlán watershed, Guatemala
Sandra F. Rodriguez Quintana |
| 11:05 am - 11:20 am | Beyond borders: understanding the interconnections between human, animal, and environmental health in the Amazon
Purnima Madhivanan |
| 11:20 am - 11:35 am | Q & A |
| 12:45 pm - 1:00 pm | Advancing environmental surveillance: tracking influenza A virus circulation through a One Health lens
Kelly A. Reynolds |
| 1:00 pm - 1:15 pm | Exploring the epidemic landscape: spatial models predict phenological shifts in mosquitoes and West Nile Virus emergence
Desiree Andersen |
| 1:15 pm - 1:30 pm | Identifying the edaphic factors controlling the presence of the fungi <i>Coccidioides</i> spp. in soils of the Sonoran Desert
Nastasia Baudin |

- 1:30 pm - 1:45 pm Targeted assessment of disinfection-resistant adenoviruses in water purification processes for potable reuse
Walter Q. Betancourt
- 1:45 pm - 2:00 pm Q & A
- 2:00 pm - 2:15 pm Psychiatric service dogs and prolonged exposure therapy for military-connected PTSD: a transdisciplinary, One Health approach
Sarah Leighton
- 2:15 pm - 2:30 pm Inequities in post-hurricane recovery patterns across sociodemographic dimensions
Chris Lim
- 2:30 pm - 2:45 pm Understanding the impact of tropical cyclones on human and environmental health
Osaretin Atinuke Olurotimi
- 2:45 pm - 3:00 pm Sustaining people and livestock through cultivating water resilience with communities in arid lands
Joseph H. Hoover
- 3:00 pm - 3:15 pm Q & A



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POSTER PRESENTATIONS

Presenter	Title of the Presentation
Karla Ajoy	Accumulation of Metals and Metalloids in Sediment and Aquatic Organisms of Ecuadorian Mangrove Forests and Implications for Public Health
Paulina Marie Colombo	PAWS Project: Designing a Mixed-Methods Approach to Studying Antibiotic Prescribing in Animal Shelters
Henrey Deese	The role of avian hosts in an emerging tick-borne zoonosis in Arizona
Molly Delzio	A New Kind of Partner: Exploring the Impact of Facility Dogs in Law Enforcement
Zoe Demitrack	Military contamination of subsistence foods and threats to Indigenous food security
Stephanie Hargrave	Characterizing dog cognitive aging using spontaneous problem-solving measures
Sarah Leighton	Sleep-Wake Dynamics in Veteran-Service Dog Dyads: An Exploration of Overnight Concordance
Tuo Liu	Changes in Metabolic Profile by Wildland-Urban-Interface (WUI) Fire Exposure in Firefighters & Mice
Victor Ugbede Okpanachi	Microbial water monitoring In hotspots communities for <i>V. cholerae</i> in Dar es Salaam, Tanzania
Priyanka Ravi	Occupational Experiences of beedi workers in India – A Photovoice Study
Brendan Riske	Manipulating B5 in the Mosquito to Prevent Malaria Development
Yunuen Soto Fernandez	Exposure to toxic metal(loid)s and microbial pathogens via drinking water in communities of the Lake Atitlán watershed, Guatemala
Ben Stansfield	DNA damage repair impairment in Hereditary Leiomyomatosis and renal cell cancer
Noriko Tamari	Interactions between Water, Sanitation, and Hygiene (WASH) and mosquito dynamics in western Kenya: Implications for diarrheal and mosquito-borne diseases
Priscilla Valenzuela	Chemicals and Heavy Metals in Human, Animal, and Aquatic Environments in La Pesca, Mexico