



Recent Publications

Using a One Health Approach, Duke Researchers and Collaborators in China Find Evidence for Cross-species Influenza A Transmission Within Swine Farms

By Laura Borkenhagen, MSc

In an effort to better understand the influenza A virus transmission between humans and pigs, Duke University researchers and collaborators from multiple organizations in China conducted a large prospective study of pigs, pig workers, and six pig farms. Their important work is one of the few to be conducted interdisciplinary way. It was recently published in the high impact journal *Clinical Infectious Diseases*.



[Read more](#)



Duke One Health Mongolian Team Identifies Potential Risk Factors for Zoonotic Disease Transmission Among Horse and Camel Herder Households

by Lexi Sack, DVM

In this pilot study, One Health D43 team researchers from Duke University and the Institute of Veterinary Medicine in Mongolia conducted a survey of 131 households to determine the risk factors for transmitting zoonotic disease in households caring for horses and camels. Public health concerns may arise from using dried manure for fuel and drinking unprocessed river water.

[Read more](#)



**Duke and University of Iowa
Experts Point Out Novel
Pathogen Threats Emerging
from Chinese Swine Farms**

By Jane Fieldhouse, MSc

In the high impact journal *Lancet Infectious Diseases*, Professor Gregory Gray from Duke University and Professor & former dean James Merchant from the University of Iowa College of Public Health commented upon emerging pathogens threats from China's growing swine industry. They argue that heightened biosafety and biosecurity measures are immediately needed to prevent future novel pathogen outbreaks.

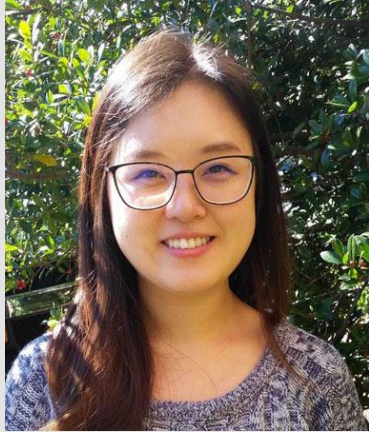
[Read more](#)

Duke One Health Activities

Two Duke Global Health Institute Rising Second-Year Master's Students Conduct Fieldwork Research in Borneo Island of Malaysia for 10 Weeks



Juliana Zemke is conducting a surveillance of arboviruses in Sarawak, Malaysia. Arbovirus surveillance is vastly under-resourced, relying heavily on passive surveillance systems in Malaysia. The current diagnostic methods for patients presenting with dengue-like infections may misconstrue cases of dengue, chikungunya, and Zika virus infections, given that all three arboviruses have similar clinical manifestations. In this pilot study, Juliana aims to gather evidence to determine the prevalence of dengue, chikungunya, and Zika viruses among patients with dengue-like infections at Sibu and Kapit hospitals. She also plans to validate the clinical value of the T-Cor 8 Real-Time PCR Thermocycler (Tetracore Inc., USA) in detecting these viruses.



Jessica Choi is conducting a field trial of new diagnostics help the local physicians and laboratorians in Kapit more rapidly diagnose a dangerous bacterial disease, melioidosis. The current diagnostics are limited by the time and inaccuracy. For melioidosis patients, the administration of antibiotics is critical as the bacteria causing melioidosis, *Burkholderia pseudomallei*, may lead to fatal conditions if left untreated. The rapid diagnostic tool developed by the University of Nevada team, which uses lateral flow immunoassay, may be a promising solution for the Kapit communities. This is the first time that this novel tool is being validated in a melioidosis-epidemic site. Jessica hopes that the new diagnostics will provide a better care for the affected individuals and that the Kapit medical team will build confidence when facing the future melioidosis patients.

Updates on One Health Team Members



Dr. Barnes to join the Public Health School of the University of North Florida this Fall

Former Duke University postdoctoral fellow Amber Barnes, PhD, who served with the Duke One Health D43 Team 3 for two years (2016-18) has been awarded a junior faculty position at the University of North Florida in Jacksonville, FL.

Congratulations, Amber!

Awards & Recognition



Duke One Health Training Program Featured in Media Sources

The 2018 Duke One Health Training Program (OHTP) has been acknowledged in multiple media sources for its comprehensive hands-on learning experiences in various fields such as zoonotic diseases, virology, and entomology. The stories of 2018 OHTP trainees were covered by the DGHI news, Global Health NOW, One Health Commissions' "One Health Happenings New Notes", and Duke Lemur Center Blog. In the photo, the trainees are posing in front of the Duke Lemur Center where they learned about Duke University research efforts in ecology.

Read stories in [DGHI news](#), [One Health Commissions](#) and [Duke Lemur Center Blog](#)



Bass Connections 2017 Showcase Video Now Available

In April 2018, the Bass Connections 2017 team was invited to present their exciting fieldwork experience as young researchers during the 10-week long project in Sarawak, Malaysia. Their video is now available online.

Watch the presentation [here](#).



Duke One Health YouTube Channel Launched!

Duke One Health has a new YouTube channel that features videos sharing the work done by the Duke One Health Team members.

Subscribe to the Duke One Health Team YouTube channel [here](#).



Visit Duke One Health Website

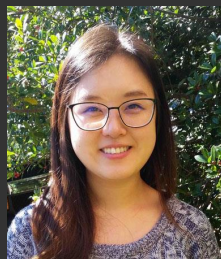


YouTube



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Meet the Newsletter Editors:



Jessica Choi (left) and Jane Fieldhouse, MSc (right) serve as the editors of Duke One Health Team News. Jessica Choi is a rising second-year master's student at the Duke Global Health Institute. Jane graduated from the Duke Global Health Institute in December 2017 and is currently working as a research analyst for the One Health Team at Duke University.

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The Duke One Health Team News periodically reports research and training news from the Duke One Health Team's activities in 10 countries.

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