



Tropentag, September 17-19, 2018, Ghent

“Global food security and food safety:  
The role of universities”

## Food Safety Research in the Feed the Future Innovation Lab for Livestock Systems

ARIE HAVELAAR<sup>1</sup>, SILVIA ALONSO<sup>2</sup>, KEBEDE AMENU<sup>3</sup>, DELIA GRACE<sup>2</sup>, DIRK MAIER<sup>4</sup>, DEON VAN DER MERWE<sup>5</sup>, JEAN-BAPTISTE NDAHETUYE<sup>6</sup>, EMILY OUMA<sup>7</sup>, KESHAV SAH<sup>8</sup>, JESSIE VIPHAM<sup>9</sup>, YACOB ZEREYESUS<sup>9</sup>, SASKIA HENDRICKX<sup>1</sup>, MARJATTA EILITTÄ<sup>1</sup>, ADEGBOLA ADESOGAN<sup>1</sup>

<sup>1</sup>University of Florida, Animal Sciences, United States of America

<sup>2</sup>International Livestock Research Institute (ILRI), Kenya

<sup>3</sup>Addis Ababa University, College of Veterinary Medicine and Agriculture, Ethiopia

<sup>4</sup>Iowa State University, Agricultural and Biosystems Engineering, United States of America

<sup>5</sup>Utrecht University, Faculty of Veterinary Medicine, The Netherlands

<sup>6</sup>University of Rwanda, Rwanda

<sup>7</sup>International Livestock Research Institute (ILRI), Uganda

<sup>8</sup>Heifer International, Animal Well-Being, Nepal

<sup>9</sup>Kansas State University, United States of America

### Abstract

The livestock systems innovation lab (LSIL) is funded by the United States Agency for International Development (USAID), through a leader with associates cooperative agreement award to the University of Florida. The duration of the current award is October 1, 2015 to September 30, 2020. The objectives of the LSIL are to sustainably improve livestock productivity and marketing and animal-source food (ASF) consumption using appropriate improved technologies, capacity development, and policies, in order to improve the nutrition, health, incomes and livelihoods of vulnerable people.

LSIL is funding 22 projects in 6 countries, of which 7 are addressing food safety aspects of ASF consumption. Three focus grants (1-year duration) address safety of milk and milk products in Ethiopia, Rwanda and Nepal, and three focus projects address mycotoxins in animal feed in Ethiopia, Rwanda and Burkina Faso. One research grant (4-year duration) is fully focused on food safety and takes a broad approach to collecting evidence to inform food safety policy in Cambodia. One research grant addresses beef and dairy food safety in Ethiopia, including aspects of abattoir food safety. One research grant assesses consumer demand for milk quality and safety attributes in Rwanda. All projects have started and are generating results.

The CAGED project, funded by the Bill & Melinda Gates foundation, studies the balance between improved nutrition by smallholder chicken producers and exposure of young children to chicken droppings, specifically *Campylobacter* spp., as a risk factor for environmental enteric dysfunction.

This presentation will provide an overview of livestock systems innovation lab, with a focus on the objectives of the food safety projects as well as their initial results.

**Keywords:** Animal source foods, beef, dairy, food safety, mycotoxins, nutrition