

U of S One Health Initiative

Overview

Origins

- U of S
 - All major health science colleges plus Agriculture and Bioresources, Schools of Public Health, Public Policy, and Environment and Sustainability, Toxicology Centre.
- Well-established research strength
 - Vaccinology and infectious disease (VIDO)
 - Toxicology, Agriculture
 - Basic and clinical science, epidemiology

Development

- Strategic Research Plan 2010 – Signature Research Areas
 - One Health: solutions at the animal-human-environment interface
- December 2011 One Health Workshop
 - Faculty, government (Ministry of Health, PHAC, CFIA), and industry
 - Collaborative process to identify One Health strategic plan: research (4) and training priorities (2)

Areas of Research Focus

- **Food Safety** (C Waldner, V Gerdts)
 - Goal: To improve food safety in Canada through research on enteric disease; food production contamination; and antimicrobial resistance.

- **Water and Health** (L Bharadwaj, C Waldner)
 - Goal: To ensure the sustainable provision of a healthy water supply for all life forms through research on water supply, sanitation and health; impacts of land use, hydrological change and resource development; and policy assessment.

- **Infectious Diseases Shared by Animals and Humans**
(E Jenkins, S Kirychuk)
 - Goal: To improve the assessment and control of diseases shared by man and animals through research on risk assessment, mitigation, communication and projection.

- **One Health Community Needs and Services** (T Epp, P Woods)
 - Goal: To examine an integrated One Health approach to community health assessment; health service provision; and animal-assisted support and therapy in selected communities.

Graduate Training

- **Goal:**

- To prepare graduate students to address complex One Health problems in an integrated systematic manner across the continuum from scientific discovery to policy development.

- **NSERC CREATE Training Program** in Infectious Disease, Food Safety and Public Policy

- B. Singh, PI; V. Misra, Program Coordinator (2012-2018)

- **One Health Graduate Certificate Program (2014)**

- Gwenna Moss Centre support

Undergraduate Training

- PBL modules for inter-professional health science education
- One Health Undergraduate Certificate (P Farnese) 2014
 - Gwenna Moss Centre support
- One Health Leadership Experience (D Freeman) 2012 +
 - 3 day weekend workshop August– 130 incoming H Sc students sponsored by Zoetis Canada (Pfizer); PHAC, CFIA
 - International keynote speakers, PBL case studies, leadership skill development

Core support - One Health at U of S

- PCIP/CHSD Joint support (\$400,000 over 2013-15)
 - **Research Development Fund**
 - Call for Proposals: 16 received, 4 to be funded 2014, 2015.
 - **Internationalization** of Research and Graduate Training program
 - Frei University, Berlin; GADVASU University, India
 - Makerere University, Uganda; Brazil
 - **Core administrative support**
 - Co-leaders: H Townsend/B Reeder report to OVPR and CHSD