



# One Health at UCalgary

Improved health and wellbeing for people, animals, and the environment.

Communities around the globe are experiencing environmental, social, and economic changes never seen before. These changes are impacting the health and wellness of people and animals within their shared environments. One Health at UCalgary builds transdisciplinary teams to develop adaptive and sustainable practices to address these global challenges.

## The Opportunity

One Health is an approach to complex problems that brings together researchers, practitioners, stakeholders, rightsholders, and decision makers from across disciplines and sectors to better understand our connections with the natural world and find sustainable and ethical solutions to problems and for the benefit of all ecosystems.

## The Scope

### Research

We focus our transdisciplinary research efforts in 4 thematic areas:

#### Healthy Water Ecosystems

Ensure the world's sustainable water future by protecting aquatic ecosystems and biodiversity.

#### Infectious Diseases and the Microbiome

Mitigate the devastating consequences of infectious diseases by advancing understanding of the interactions between microbial populations and their environments, including human hosts.

#### Antimicrobial Resistance

Balance our need for antimicrobials against the complex biological, social, and economic factors that can lead to the development of microbial resistance to drugs.

#### Healthy Communities

Empower people through community-based research and engagement, health public policy, and political commitment, to build a community's capacity to improve community health and well-being.



## Training

The next generation of One Health researchers and practitioners will face many complex challenges that jeopardize our sustainable future. They will need to see the big picture and the challenges within, understand their role, and be inspired to take them on.

- **The One Health Summer Institute** provides learners from around the globe an opportunity to explore the concept of One Health and build on their disciplinary expertise.
- **The Antimicrobial Resistance: A One Health Approach Virtual Seminar Series** provides students with a comprehensive understanding of AMR and the holistic solutions required to address the challenge.



## Engagement

We host a monthly public webinar series, **One Health Circle**, and numerous other open seminar events. Through these activities we feature One Health efforts by sharing researcher knowledge and combining it with community experience and wisdom to highlight the benefits of the One Health approach.

## Contact us

We look forward to engaging potential partners in discussions about the future of One Health at UCalgary. To learn more please visit: [research.ucalgary.ca/one-health](https://research.ucalgary.ca/one-health)



## The Possibilities

- Build a **One Health Institute** that includes membership opportunities and supports the continued growth of a large transdisciplinary network.
- Create an **Innovation Fund** and combine diverse expertise to yield innovative adaptations that better address complex scientific and social challenges.
- Establish at least two endowed, externally funded **research chairs** in One Health priority areas.
- Develop a Non-Thesis **Masters in One Health**. This 12-month program will include coursework and a summer capstone project at UCalgary.
- Host an **International One Health Challenge**, inviting interdisciplinary teams of graduate students and their supervisors to submit a research proposal that addresses a complex problem in a specified research area.
- Train culturally competent researchers and **increase capacity** in One Health-trained personnel in Alberta.
- Foster strong community-based partnerships through co-developed and co-drafted research programs with **Indigenous communities**.



For more information please contact:

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