



Vaccine and Infectious Disease Organization- International Vaccine Centre

Solutions Through Research

The Vaccine and Infectious Disease Organization-International Vaccine Centre (VIDO-InterVac) is a world-leading infectious disease research and vaccine development institute of the University of Saskatchewan. With more than \$200 million in infrastructure, and four decades of experience we partner with government, industry and academia for collaborative research opportunities and train highly qualified personnel to solve infectious disease challenges.

EXPERTISE:

- Multidisciplinary approach including 65+ PhD level scientists, technicians and veterinarians
- Human and animal infectious diseases, particularly zoonotic and emerging diseases (e.g. tuberculosis, porcine epidemic diarrhea virus, hepatitis C, prion diseases)
- Animal disease model development, specializing in large animals
- Host-pathogen interaction
- Vaccine development and evaluation, including 8 commercialized vaccines, 6 recognized as world-firsts

INFRASTRUCTURE:

- One of the largest and most advanced containment level 2 and 3 (CL2, CL3) infectious disease research facilities in the world
- Modern virology, immunology, bacteriology and biochemistry laboratories
- Select agent and aerobiology capacity
- Significant CL2 and CL3 animal infrastructure adaptable for all species, but with special emphasis on large animals
- Cellular analysis, small animal imaging, and surgical suites
- 160 acre CL2 research station for large animal studies

QUALITY AND CARE:

- ISO 9001:2008 certified quality management system
- All research conducted in accordance with Canadian regulations

RESEARCH THEMES:

PATHOGENESIS	PRE-CLINICAL VACCINE DESIGN AND DEVELOPMENT	REGULATORY TRIALS
<ul style="list-style-type: none"> • Microbe biology • Pathogenomics • Host-pathogen interactions • Animal models of disease (natural, surrogate and surgical models) 	<ul style="list-style-type: none"> • Antigen identification • Vaccine formulation: adjuvants, vaccine retention and distribution • Vaccine delivery: viral and bacterial vectors, mucosal delivery, needle-free and topical 	<ul style="list-style-type: none"> • Preclinical testing of human vaccines • Full regulatory testing of animal vaccines • Serial release/safety testing



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