



Our Clients

Veterinarians | Livestock producers | Pet owners
Animal-health industry | County, state, federal agencies

Our Services

- **Bacteriology** – Identifies bacterial and fungal pathogens, including potential agents of bioterrorism; also pinpoints antibiotic-resistant bacteria and optimal therapies.
- **Molecular Diagnostics** – Uses state-of-the-art technology to detect genetic markers (DNA and RNA) of specific pathogens.
- **Parasitology** – Identifies internal and external parasites that cause or spread disease in domestic and wild animals; also identifies drug resistance in parasitic worms.
- **Pathology** – Two focus areas. Necropsy service provides post-mortem exams for a wide variety of species – including livestock, pets and wildlife – to identify cause of death and potential disease threat to other animals and people. Biopsy service examines tissue samples to identify disease, providing vital information for clinical care.
- **Toxicology** – Uses chemical analysis to assess an animal's nutritional status and potential exposure to toxins.
- **Virology** – Identifies viruses and exposure to viral agents through analysis of biological specimens, which are obtained from live animals or during necropsy.

The **CSU Veterinary Diagnostic Laboratories** are accredited by the **American Association of Veterinary Laboratory Diagnosticians**, the world leader in advancing veterinary diagnostic laboratory science to promote global animal health and science at the interface of human, animal and environmental health.

Diagnostic Expertise

- **Our facilities** form the largest university-based veterinary diagnostic laboratory in the Intermountain West. We are housed in the CSU College of Veterinary Medicine and Biomedical Sciences; our mission encompasses excellent teaching, research, outreach and diagnostic services.
- We are a **core lab** in the National Animal Health Laboratory Network, a testament to our disease-surveillance abilities and the importance of our work in protecting the nation's food supply, economic well-being and public health from foreign animal and emerging diseases.



- Our Laboratories include sealed **Biosafety Level 3 facilities** approved by the U.S. Department of Agriculture and Centers for Disease Control and Prevention for handling highly infectious “select agents.”
- We **annually** conduct some **600,000 tests**. More than **75 university faculty** and **staff** are employed in our labs.

The **CSU Diagnostic Medicine Center is our home base**. This 90,000-square-foot building is a hub of diagnostic services, clinical pathology, and disease surveillance. It is adjacent to the James L. Voss Veterinary Teaching Hospital, allowing for close collaboration with university veterinarians and scientific colleagues.

Above and Beyond

- We have the largest **surgical biopsy** caseload of all university-based veterinary diagnostic laboratories – a sign of our expertise in identifying cancer, gastrointestinal and liver disease, and other serious illnesses in companion and zoo animals.
- Our program in **live-animal export testing** verifies the health of livestock and other animals bound for international destinations.
- We have notable expertise in **prion diseases** and are one of only six labs nationwide approved to test for bovine spongiform encephalopathy, or mad cow disease; we also partner with state and federal agencies to track chronic wasting disease in deer.
- Our **Avian Diagnostics** section specializes in testing and flock health for commercial poultry producers and backyard flocks. It houses the Colorado Avian Disease Surveillance Program and the

Colorado State Agency for the National Poultry Improvement Plan; these collaborations with state and federal agencies track avian influenza, among other diseases of interest, and broadly promote human and animal health.

- The **CSU Field Investigation Unit**, launched in 2014, promotes livestock herd health by offering concrete solutions for Colorado producers. The unit combines CSU expertise in disease diagnostics, veterinary medicine, livestock nutrition and herd management. Bring us your problem; our team will help.

The CSU Veterinary Diagnostic Laboratories provide clients an array of state-of-the-art testing services to identify disease. Our faculty also conduct research and teach veterinary and other graduate students. We work extensively with public agencies to track infectious disease in the state, nation and world. In these ways, we have a vital role in protecting health.



Contact the CSU Veterinary Diagnostic Laboratories

www.dlab.colostate.edu

dlab@colostate.edu

MAIN LAB

300 W. Drake Road, Fort Collins, CO 80523

(970) 297-1281

BRANCH LABS

In Grand Junction

425 29 Road, Grand Junction, CO 81501

(970) 243-0673

In Rocky Ford

27847 Road 21, Rocky Ford, CO 81067

(719) 254-6382

VETERINARY DIAGNOSTIC LABORATORIES

Pinpointing
Disease
Protecting
Health

Veterinarians

Livestock producers

Pet owners

County, state and federal agencies

Animal-health companies



Colorado
State
University

COLLEGE OF
VETERINARY MEDICINE AND
BIOMEDICAL SCIENCES



Pinpointing
Disease
Protecting
Health

THE VETERINARY DIAGNOSTIC LABORATORIES OFFER TIMELY and accurate testing services to identify animal disease. We provide clients with critical information needed for optimum veterinary care, disease prevention and cures. Our work also goes beyond identifying disease in livestock and companion animals: Our Laboratories have a unique role in global disease surveillance. We collaborate with public and private partners to track significant diseases in Colorado, across the nation and around the world. In this way, we help anticipate and prevent diseases – including zoonoses, passed from animals to people – that could harm economic well-being and public health. The Laboratories conduct research to better understand disease and to improve diagnostics. We also help educate aspiring veterinarians and other professionals in the fields of health and medicine. **With this work, we proudly protect the health of animals, people and the planet.**

Dr. Barbara Powers, above, is director of the CSU Veterinary Diagnostic Laboratories and is an expert in analyzing surgical biopsies to detect cancer and other diseases in animals. The CSU labs are among the best of their kind.