CANCER RESEARCH

Leukemia and lymphoma
- Cancer of blood cells is as common in animals as in people
- There are many different types of leukemia and lymphoma
- Some cause very little disease and allow the animal to live a long time, while others cause death within weeks

Research goals: Develop better tests to diagnose and characterize different types of leukemia and lymphoma

Collaborators:
Dr. Paul Woods, Medical Oncologist / Internal Medicine, Ontario Veterinary College
Dr. Tony Mutia, Medical Oncologist, Ontario Veterinary College
Dr. Vicky Sabine, Clinical Research Coordinator, Ontario Veterinary College

ASThma RESEARCH

Asthma in horses
- Many older horses in Canada develop “heaves” or “recurrent airway obstruction” (RAO)
- Disease results from chronic exposure to dusty hay, straw and mold spores
- Affected horses cough, have excess mucus production and airway constriction, and have difficulty expiring air

Research goals: Identify why this disease develops and how to diagnose it earlier

Collaborators:
Dr. Cameron Akerley, Hospital for Sick Children

FELINE VIRUS RESEARCH

Host response to FIV
- Cats are susceptible to infection by the feline immunodeficiency virus (FIV)
- FIV is very similar to HIV and causes AIDS in cats
- Cats vary in how they respond to FIV infection and how quickly they develop immunodeficiency

Research goal: Identify determinants of variable progression from FIV infection

Collaborators:
Dr. Sueen Little, Bytown Cat Hospital
Dr. Olaf Berke, Ontario Veterinary College

Bone marrow aspirate from an animal with leukemia. Neoplastic cells look alike and include mitotic figures (arrow).

African lions and domestic cats are susceptible to infection by FIV.

Scanning electron micrograph of a bronchial wall composed of alveolar epithelial cells and non-keratinized epithelial cells with flocks of mucus.