

CAHF *Wish* LIST

When CAHF donors help to purchase new equipment at the Western College of Veterinary Medicine, everybody benefits. WCVM clinicians and researchers gain access to vital pieces of equipment that help to improve the quality of health care for their patients. Plus, veterinary students gain experience and training on the latest technologies.

Interested? Visit cahf.usask.ca and click on "Support CAHF" to view the latest pieces of equipment on the CAHF Wish List.

Questions? Please contact **Lisa Green**, WCVM's development officer, at **306-966-7450** or lisa.green@usask.ca.

COST CATEGORY: \$10,000 AND OVER

NAME OF ITEM: Optical coherence tomography

ESTIMATED COST: \$75,000 (no ongoing costs)

SERVICE: Veterinary Ophthalmology

FACULTY MEMBER: Drs. Bruce Grahn and Lynne Sandmeyer, Department of Small Animal Clinical Sciences, WCVM

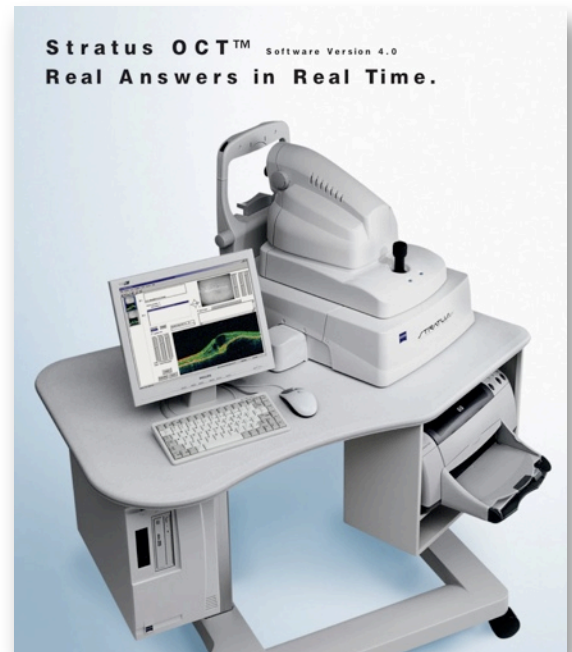
USE OF EQUIPMENT: Optical coherence tomography is a laser scanning technology that has become available in the ophthalmology field over the last decade. It is an essential, routine exterior segment scanning device that is used extensively on thousands of human patients each year. Specialists use the technology to evaluate the retina and the retinal pigment epithelial layers. Optical coherence tomography is used clinically and in research.

This technology is relatively unused in veterinary ophthalmology today. It will very rapidly become the standard diagnostic equipment to evaluate the retina in most species of animals. Veterinary ophthalmologists at the WCVM recently borrowed an OCT machine and published the results of its application in an inherited retinopathy in Coton de Tulear dogs.

The impressive features of this machine include resolution at a 5 micron level and the ability to obtain images that encompass the entire retina in a matter of seconds. The ability to examine living tissue at the cellular level greatly enhances specialists' ability to provide owners with accurate diagnostic information about animals that have potentially retinal damaging characteristics such as glaucoma, retinal detachments, inherited retinopathies, choroiditis, ocular neoplasia — the list is almost without limit.

APPLICATION FOR RESEARCH: The ability to investigate posterior segment disorders with this technology is unparalleled.

Click [www.meditec.zeiss.com/88256DE3007B916B/0/C26634D0CFF04511882571B1005DECFD/\\$file/stratusoct_en.pdf](http://www.meditec.zeiss.com/88256DE3007B916B/0/C26634D0CFF04511882571B1005DECFD/$file/stratusoct_en.pdf) to download a brochure about this technology.



Above: Optical coherence tomography is a laser scanning technology used in the field of ophthalmology. **Photo:** www.meditec.zeiss.com.

the application in an inherited retinopathy in Coton de Tulear dogs.