

Electron Microscopy Imaging Laboratory

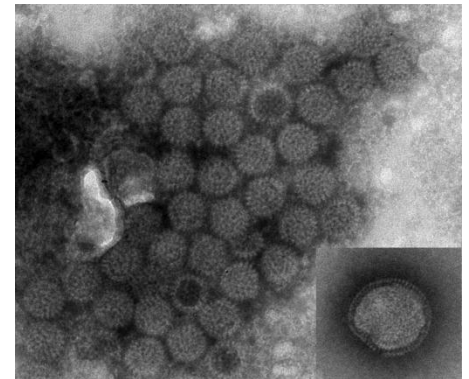
Service	Rate	Turnaround time
Scope time	\$50/hr	
Training	\$50/hr	
EM - fixed tissue	\$250	20 days
EM - wax histoblock	\$275	22 days
EM - direct	\$110	2 days



The electron microscopy imaging laboratory at the California Animal Health and Food Safety Laboratory System (CAHFS) prepares and interprets biological samples from all animal species. We prepare and interpret negatively stained tissue/fluid/fecal samples and thin tissue sections using direct and transmission electron microscopy for the detection of viral, bacterial and protozoal agents associated with ultrastructural pathology. The EM suite includes a laboratory area

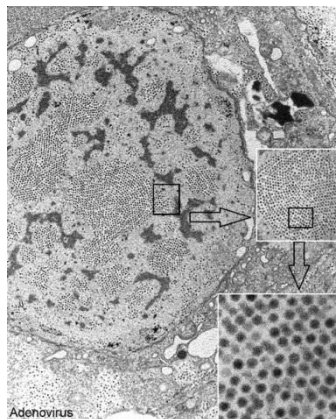
dedicated to sample preparation and has a Zeiss Leo906E transmission electron microscope. The electron microscope is equipped with a DVC-4000AM digital camera to capture high resolution digital images suitable for publication. Training and use of the electron microscope is also available.

The electron microscope is the primary, and in some cases the only, diagnostic instrument that has the capability to diagnose newly emerging diseases providing an "open view" of possible etiologies. Additionally, the demonstration of etiology highly associated with tissue pathology is crucial for interpretation of its significance.



California Animal Health & Food Safety Laboratory System

620 W. Health Sciences Dr
 University of California
 Davis, CA 95616
 Phone: 530-752-8700
 Fax: 530-752-6253
 E-mail: cahfs@ucdavis.edu



New diseases/publications in which CAHFS electron microscopy has been instrumental include: *porcine multisystemic wasting syndrome (circovirus)*, *Koi herpesvirus*, *deer adenovirus*, *bovine Neospora*, *finch circovirus*, *turtle circovirus*, *pigeon circovirus*, *bovine footwarts*, *Brachyspira enterocolitis*, *psittacine Coxiella*, *equine rhabdomyosarcoma*, *Sarcocystis in horses*, *Acanthamoeba* and *Balamuthia in horses*.