



University of Pennsylvania School of Veterinary Medicine

Comparative Pathology Core

Dr. Amy Durham – Faculty Director
(amygd@vet.upenn.edu)

Dr. Enrico Radaelli – Technical Director
(enrada@vet.upenn.edu)

www.vet.upenn.edu/comparativepathologymanager

VETERINARY PATHOLOGY SERVICES	FEE	SERVICE DESCRIPTION
Academic rate for non-University of Pennsylvania investigators is 1.5x (fees in red); commercial/industry is 2x.		
Autopsy Training	\$150/hour \$225/hour	Complete demonstration of autopsy procedures to qualified personnel by a board-certified veterinary pathologist. Training includes proper tissue dissection for organ weights, interpretation of gross lesions, and appropriate tissue trimming techniques.
Photomicroscopy Per slide Composite creation for publication	\$15 (\$22) \$30 (\$45)	Composites for publication will be formatted in Adobe Photoshop to the journal specifications.
Slide Evaluation Single tissue per slide 2 tissues per slide >2 tissues per slide Special tissue fee Slide review per hour	\$20 (\$30) \$25 (\$37) \$45 (\$67) \$5 (\$7) \$200 (300)	Tissues evaluated histologically by a board-certified veterinary pathologist with a final interpretative report. Charges are on a per slide or per hour basis.
Complete pathological assessment (comprehensive pathological PHENOTYPING of new mutant mouse lines or toxicological pathology screening)	\$300 per mouse \$450 per mouse	<ul style="list-style-type: none"> ▪ Recommend 3-5 mice of each genotype, including the same number of age- and sex-matched controls exposed to the same environment and experimental conditions. ▪ Brief ante mortem observation period, followed by euthanasia. ▪ Body weight and blood collection.* ▪ Complete autopsy with organ weights. ▪ Thorough organ/tissue selection and sampling for histopathological examination. ▪ Tissues fixed in formalin, trimmed, embedded, sectioned and H&E stained. ▪ Tissues evaluated histologically by a veterinary pathologist with a final interpretative report.
*Clinical Pathology services are available at an additional cost (see below).		
IMMUNOHISTOCHEMISTRY & IMMUNOFUORESCENCE SERVICES	FEE	Leica BOND RXm Automated Immunostainer
IHC: Working protocols	\$20 (\$30)/per slide	Antibodies already optimized on our platform
IHC: Novel Ab characterization	\$150 (\$225)/per ab	New antibodies (and applications) that have not been previously tested on our platform
Digital Pathology	FEE	Aperio VERSA & eSlide Manager
Digital Slide Scanning BF 20X BF 40X FL 20X FL 40X FL 63X oil	\$5/slide \$10/slide \$10/slide \$15/slide \$20/slide	The Aperio VERSA is a whole slide digital scanner that provides brightfield and fluorescence imaging of tissues configured to a sophisticated database management system (eSlide Manager) for central storage, analysis, and sharing. The system is fully integrated with advanced imaging software, which offers state-of-the-art quantitative analysis of subcellular structures, cells, and tissues (Image Analysis Service). Please contact Drs. Radaelli and Durham for further information about image analysis.
Image Analysis	Variable	
Investigators are responsible for collecting their own materials (slides, blocks, left over of samples, etc.) following the conclusion of the project. Please be advised that after 3 months from the conclusion of the project, any material left behind by the investigators will be automatically discarded.		

HISTOLOGY SERVICES		FEE	
Trimming		\$3 (\$4.50)	
Processing		\$3 (\$4.50)	
Sectioning (uncharged slides)		\$2 (\$3)	
Sectioning (charged slides for IHC)		\$4 (\$6)	
H&E Stain		\$2 (\$3)	
Decalcification		\$2 (\$3)	
Frozen section, unstained charged slide (for IHC)		\$7 (\$10)	
Histochemical stains	Level I	\$4 (\$6)	<u>Level I</u> Gram, PAS, Acid fast, Congo red, Iron, Toluidine blue, Alcian blue <u>Level II</u> Trichrome, Luxol-Blue, Melanin bleach, Giemsa, Copper <u>Level III</u> GMS, Warthin-Starry, Von Kossa
	Level II	\$6 (\$9)	
	Level III	\$8 (\$12)	
Paraffin strip		\$10 (\$15)/tube; \$5 (\$7)/addl tube	
CLINICAL PATHOLOGY SERVICES		FEE	
CBC - Research		\$65.00	Instrument counts + technician review of slide: <ul style="list-style-type: none"> ▪ PCV + Total protein, if sample volume permits ▪ Manual leukocyte differential, assessment of RBC morphology, platelet evaluation ▪ Pathologist review included if certain criteria met
Blood smear evaluation		\$30.00	Pathologist review of blood smear includes written report with leukocyte differential, assessment of morphology, and interpretive comments.
Bone marrow		\$75.00	Pathologist evaluation of bone marrow cytology with written report; concurrent CBC submission allows for improved analysis
Chemistry		Individual and combination panels available – see website for complete pricing and options.	<u>Routine tests:</u> Glucose, BUN, Creatinine, calcium, phosphorous, magnesium, Total protein, albumin, (globulin), cholesterol, ALT, AST, ALP, GGT, Total bilirubin, Sodium, Potassium, Chloride, ECO ₂ , (anion gap) <u>Add-on tests:</u> Amylase, lipase, triglycerides, creatine kinase
Cytology		\$50.00	Pathologist evaluation of masses, organs, skin, etc
Fluid analysis		\$55.00	Gross analysis, cell counts + protein, pathologist evaluation of fluid + written report, e.g. abdominal, pleural, pericardial, CSF
*Additional clinical pathology testing may be available with advanced notice.			
*Additional information regarding sample and submission requirements, fees, and modified testing options is available on the Comparative Pathology Core website – Overview of service fees.			