

## **Auburn University College of Veterinary Medicine Clinical Pathology Laboratory Services**

The clinical pathology laboratory offers many routine and several specialty assays for patients in the teaching hospitals and from practitioners in private practice. Routine assays are performed daily, Monday through Friday; additionally, emergency samples are processed weekends and holidays.

Every complete blood counts (CBC) includes data generated by a state-of-the-art automated hematology instrument (Siemens ADVIA 120) and microscopic evaluation of leukocyte differential, leukocyte morphology, erythrocyte morphology, platelet estimation and platelet morphology.

Routine chemistry analyte analyses include concentrations of proteins, glucose, cholesterol, urea, creatinine, Ca, P, Na, Cl, K, bicarbonate, bilirubin and serum iron and activities of enzymes from liver and muscle. Complete urinalyses are performed daily.

Routine hemostasis profile includes platelet count, MPV, PT, APTT and concentrations of fibrinogen, FDPs and D-dimers and Antithrombin activity.

Specialty assays include concentrations of bile acids and ammonia, Coombs' testing, canine, feline and equine cross matching and feline blood typing. Specialty coagulation testing includes platelet function (see information under Hemostasis Laboratory, Dr. Mary Boudreaux) and whole blood hemostasis analysis (Thromboplastograph and Multiplate instruments). Lymphoma immunophenotype for hospitalized dogs can be determined via flow cytometric analysis.

The clinical pathology laboratory full cytology service includes evaluation of aspirates, swabs and imprints of tissue lesions and analysis of fluid samples such as tracheal wash, bronchoalveolar lavage, joint fluid, cerebrospinal fluid, urine sediment and body cavity effusions. Fluid analyses include cellular microscopic evaluation and determination of concentrations of nucleated cells, erythrocytes and protein concentration. Bone marrow aspirates and core biopsies are performed and evaluated with reference to current CBC findings.

Samples from private practitioners are welcome and can be mailed to the Department of Pathobiology via US Postal Service, UPS, FedEx or other package delivery couriers.

Our mailing address is:

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Auburn University, AL 36849-5519  
Telephone number: 334-844-2653  
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