Information for grant and manuscript preparation:

**Note:** If you acknowledge the Animal Diagnostic Lab in a manuscript that is published, please email us the manuscript – this is very helpful to support our lab! Send manuscripts to Jennifer Johns

**For grant ‘facilities and equipment’ support section:**

The Animal Diagnostic Laboratory in the Veterinary Service Center is a shared resource within the School of Medicine. The Animal Diagnostic Laboratory provides clinical pathology services for all laboratory animal species. Laboratory divisions include hematology, clinical chemistry, urinalysis, fluid analysis and cytology, bone marrow evaluation, serology, microbiology and parasitology. Send-out and referral testing is provided and includes molecular diagnostics, microbial susceptibilities, and coagulation. Aquatic and drinking water quality testing is available and performed routinely. The instrumentation in the Animal Diagnostic Laboratory includes a Sysmex XT-2000iV hematology analyzer system, an Abbott CellDyn 3500 hematology analyzer, a Siemens Dimension Xpand chemistry analyzer, a Bioplex 200 multiplex system, and a Shandon cytocentrifuge. Laboratory staff includes two medical technologists specializing in laboratory animal testing and a board-certified veterinary clinical pathologist. The main testing lab is located centrally in the medical school. The two drop-off/processing labs are conveniently located within major animal housing facilities.

**For materials and methods section of manuscripts:**

Hematology: Automated hematology is currently performed on the Sysmex XT-2000iV analyzer system. Previously, hematology was performed on the Abbott CellDyn 3500 (please contact the laboratory if you are unsure what analyzer was used for your samples, or if you need additional information about the analyzer technology). Blood smears are made for all full CBC samples and reviewed by a medical technologist. Manual differentials are performed as indicated by species and automated analysis. Flagged abnormalities are additionally reviewed by a board-certified veterinary clinical pathologist.

Clinical chemistry: Chemistry analysis is performed on the Siemens Dimension Xpand analyzer. A medical technologist performs all testing, including dilutions and repeat tests as indicated, and reviews all data.

Urinalysis: Full urinalysis includes specific gravity testing by refractometry, dipstick analyte testing, and microscopic sediment examination performed by a medical technologist.

Fluid analysis, cytology and bone marrow evaluation: Automated evaluation of body fluids is performed on the Sysmex XT-2000iV analyzer system. Direct, sediment and/or cytocentrifuge smears are made from fluid specimens. Direct smears are prepared from solid tissue aspirate specimens. Bone marrow direct or cytocentrifuge smears are prepared. All smears are evaluated by a board-certified veterinary clinical pathologist. Bone marrow is evaluated in parallel with a current complete blood count.

Microbiology and parasitology: All diagnostic procedures are performed by a medical technologist. Please contact the laboratory for additional information regarding specific procedures.

Additional information:

All blood smears, cytology/fluid smears and bone marrow smears are stained with Wright-Giemsa stain (Accustain, Sigma-Aldrich). All cytocentrifuge smears are prepared using a Thermo Shandon cytocentrifuge.