

## Relevant Publications by Our Group:

### Journal Articles:

Muro S, Hwa Lee J, Stokes J, Ross M, Archer T, Wills R, Mackin A, and Thomason J. (2017) **Effects of Leukoreduction and Storage on Erythrocyte Phosphatidylserine Expression and Eicosanoid Levels in Units of Canine Packed Red Blood Cells.** *J. Vet. Intern. Med.* 31: 410-418.

Sullivant A, Mackin A, Pharr T, Cooley J, Wills R, and Archer T. (2016) **Identification of Histamine Receptors in the Canine Gastrointestinal Tract.** *Veterinary Immunology and Immunopathology.* 182: 29-36.

Thames B, Lovvorn J, Papich M, Wills R, Archer T, Mackin A, and Thomason J. (2016) **The Effects of Clopidogrel and Omeprazole on Platelet Function in Normal Dogs.** *Journal of Veterinary Pharmacology and Therapeutics.* 40: 130-139.

Thomason J, Archer T, Wills R, Press S, Mackin A. (2016) **The Effects of Cyclosporine and Aspirin on Platelet Function in Normal Dogs.** *J. Vet. Intern. Med.* 30: pp 1022-1030.

Sullivant A, Thomason J, Archer T, and Mackin A. (2016) **Treatment of an accidental massive overdose of cyclophosphamide in a dog.** *Australian Veterinary Practitioner.* 46(1): pp 9-12.

Euler C, Raj K, Mizukami K, Murray L, Chen C, Mackin A, and Giger U. (2016). **Xenotransfusion of anemic cats with blood compatibility issues: pre- and posttransfusion laboratory diagnostic and crossmatching studies.** *Veterinary Clinical Pathology.* 45(2): pp 244-253.

Fellman C, Archer T, Stokes J, Wills R, Lunsford K, and Mackin A. (2016) **Effects of oral cyclosporine on canine T-cell expression of IL-2 and IFN-gamma across a 12-h dosing interval.** *Journal of Veterinary Pharmacology and Therapeutics.* 39 (3): pp 237-244.

Archer T, Fellman C. (2015) **Words of Caution: Cyclosporine.** *Plumb's Therapeutic Brief.* 2(1) pp 8-11.

Archer T, Mackin A. (2015) **Focus on Pharmacology: Oral Cyclosporine Use in Dogs.** *Today's Veterinary Practice.* 5(1): pp105-109.

Weaver K, Stokes J, Gunnoe S, Follows J, Shafer L, Ammari M, Archer T, Thomason J, Mackin A, Pinchuk L. (2014) **Effect of Selective Liposomal Clodronate-Dependent Depletion of Professional Antigen Presenting Cells on Number and Phenotype of Canine CD4+CD25+FOXP3+ Regulatory T Cells.** *Journal of Veterinary Medicine and Research.* 1(1): 1003

- Thomason J, Archer T, Mackin A, Stokes J, Pinchuk L. (2014) **Applications of Flow Cytometry in Veterinary Research and Small Animal Clinical Practice.** *Journal of Veterinary Medicine and Research.* 1(1): 1004
- Archer, T., Boothe, D., Langston, C., Fellman, C., Lunsford, K., and Mackin, A. (2014). **Oral Cyclosporine Therapy in Dogs: A Critical Review of the Literature.** *J. Vet. Intern. Med.* **28:** 1–20.
- Haraschak, J.L., Langston, V.C., Wang, R., Riggs, C., Fellman, C., Ross, M.K., Bulla, C., Lunsford, K., Mackin, A., and Archer, T. (2014) **Pharmacokinetic Evaluation of Oral Dantrolene in the Dog.** *Journal of Veterinary Pharmacology and Therapeutics.* 37(3):286-294.
- Archer, T., and Mackin, A. (2014). **Management of Immune-Mediated Hemolytic Anemia.** *Today's Veterinary Practice.* **March/April:** 41-46.
- Dudley, A., Thomason, J., Fritz, S., Grady, J., Stokes, J., Wills, R., Pinchuk, L., Mackin, A., and Lunsford, K. (2013). **Cyclooxygenase Expression and Platelet Function in Normal Dogs Receiving Low Dose Aspirin.** *J. Vet. Intern. Med.* **27:** 141-149.
- Archer, T., and Mackin, A. (2013). **Diagnosis of Immune-Mediated Hemolytic Anemia.** *Today's Veterinary Practice.* **July/August:** 30-34.
- Riggs, C., Archer, T., Fellman, C., Figueiredo, A.S., Follows, J., Stokes, J., Mackin, A., and Bulla, C. (2013). **Analytical Validation of a Quantitative Reverse Transcriptase Polymerase Chain Reaction Assay for Evaluation of T-Cell Targeted Immunosuppressive Therapy in the Dog.** *Vet Immunol Immunopathol.* **156:** 229-234.
- Johnson, K., and Mackin, A. (2012). **Canine Immune-Mediated Polyarthrits Part I: Pathophysiology.** *J. Am. Anim. Hosp. Assoc.* **48:** 12-17.
- Johnson, K., and Mackin, A. (2012). **Canine Immune-Mediated Polyarthrits Part II: Diagnosis and Treatment.** *J. Am. Anim. Hosp. Assoc.* **48:** 71-82.
- Mullins, K.B., Thomason, J.M., Lunsford, K.V., Pinchuk, L.M., Langston, V.C., Wills, R.W., McLaughlin, R.M., and Mackin, A.J. (2012). **Effects of Carprofen, Meloxicam and Deracoxib on Platelet Function in Dog.** *Veterinary Anesthesia and Analgesia.* **39:** 206-217.
- Thomason, J., Lunsford, K., Stokes, J., Pinchuk, L., Wills, R., Langston, C., Pruett, S., and Mackin, A. (2012). **The Effects of Cyclosporine on Platelet Function and Cyclooxygenase Expression in Normal Dogs.** *J. Vet. Intern. Med.* **26:** 1389-1401.
- Fellman, C.L., Stokes, J.V., Archer, T.M., Pinchuk, L.M., Lunsford, K.V., and Mackin, A.J. (2011). **Cyclosporine A Affects the *In Vitro* Expression of T Cell Activation-Related Molecules and Cytokines in Dogs.** *Veterinary Immunology and Immunopathology.* **140:** 175–180.

Archer, T.M., Fellman, C.L., Stokes, J.V., Pinchuk, L.M., Lunsford, K.V., Pruett, S.B., Langston, V.C., and Mackin A.J. (2011). **Pharmacodynamic Monitoring of Canine T-Cell Cytokine Responses to Oral Cyclosporine.** *J. Vet. Intern. Med.* **25**: 1391-1397.

Lunsford, K., Mackin, A., Langston, C., and Brooks, M. (2009). **Pharmacokinetics of Subcutaneous Low Molecular Weight Heparin (Enoxaparin) in Dogs.** *J. Am. Anim. Hosp. Assoc.* **45**: 261-267.

Balch, A., and Mackin, A. (2007). **Canine Immune-Mediated Hemolytic Anemia: Pathophysiology, Clinical Signs and Diagnosis.** *Compend. Contin. Educ. Pract. Vet.* **29**: 217.

Balch, A., and Mackin, A. (2007). **Canine Immune-Mediated Hemolytic Anemia: Treatment and Prognosis.** *Compend. Contin. Educ. Pract. Vet.* **29**: 230.

Vasilopoulos, R.J., Mackin, A.J., Lavergne, S.N, and Trepanier, A.T. (2005). **Nephrotic Syndrome Associated with Administration of Sulfadimethoxine/Ormetoprim in a Doberman.** *J. Small Anim. Pract.* **46**: 232.

Rodriguez, D.B., Mackin, A., Easley, R., Boyle, C.R., Hou, W., Langston, C., Walsh, A.M., Province, M.A., and McLeod, H.L. (2004). **Relationship between Red Blood Cell Thiopurine Methyltransferase Activity and Myelotoxicity in Dogs Receiving Azathioprine.** *J. Vet. Intern. Med.* **18**: 339.

Mackin, A.J., Allen, D.G., and Johnstone, I.B. (1995). **Effects of Vincristine and Prednisone on Platelet Numbers and Function in Clinically Normal Dogs.** *Am. J. Vet. Res.* **56**:100.

#### **Abstracts:**

Thomason J, Archer T, Wills R, Mackin A. (2016) *Effects of Immunosuppressive Agents on the Hemostatic System in Dogs.* 34th Annual Forum of the ACVIM, Denver, Colorado. Abstract Published in JVIM.

Mackin A, Mulligan C, Narayanan L, Lunsford K, Fellman C, Thomason J, Lee B, Archer T. (2016) *Development of Biomarker Assays for the Pharmacodynamic Evaluation of Mycophenolate Mofetil in the Dog.* 34th Annual Forum of the ACVIM, Denver, Colorado. Abstract Published in JVIM.

Fellman C, Thomason J, Narayanan L, Mackin A, Lunsford K, and Archer T. (2016) **Effects of immunosuppressive drug therapy on canine activated whole blood expression of interleukin-2 and interferon- $\gamma$ .** 34th Annual Forum of the ACVIM, Denver, Colorado. Abstract Published in JVIM.

McLewee N, Archer T, Wills R, Mackin A, Thomason J. (2016) **Effects of aspirin dose escalation on canine platelet function and urinary thromboxane and prostacyclin levels.** 34th Annual Forum of the ACVIM, Denver, Colorado. Abstract Published in JVIM.

Muro S, Lee J, Ross M, Wills R, Archer T, Mackin A, Thomason J. (2016) **Effects of Leukoreduction and Storage on Eicosanoid Concentrations in Units of Canine Packed Red Blood Cells.** *34th Annual Forum of the ACVIM, Denver, Colorado. Abstract Published in JVIM.*

Hardy T, Solomon J, Archer T, Thomason J, and Denburg M. (2015) **Assessment of Image Quality Produced by a Novel GI Imaging Device Used in Client Owned Dogs.** *25th Annual Forum of the ECVIM, Lisbon, Portugal. Abstract Published in JVIM.*

Sullivant A, Cooley J, Pharr T, Wills R, Mackin A, and Archer T. (2015) **Identification of Histamine Receptors in the Canine Gastrointestinal Tract.** *33<sup>rd</sup> Annual Forum of the ACVIM, Indianapolis, Indiana. Abstract Published in JVIM.*

Foote M, Brooks M, Archer T, Mackin A, and Thomason J. (2015) **Effects of Leukoreduction on Coagulation Factor in Canine Fresh Frozen Plasma.** *33<sup>rd</sup> Annual Forum of the ACVIM, Indianapolis, Indiana. Abstract Published in JVIM.*

Muro S, Stokes J, Archer T, Mackin A, and Thomason J. (2015) **Effects of Leukoreduction and Storage on Phosphatidylserine Expression on Canine Packed Red Blood Cells.** *33<sup>rd</sup> Annual Forum of the ACVIM, Indianapolis, Indiana. Abstract Published in JVIM.*

Archer T, Fellman C, Stokes J, Kummari E, Thomason J, Haraschak JU, Pinchuk L, Wills R, and Mackin A. (2015) **Effects of Aspirin and Cyclosporine on Canine T-Cell Cytokines and Regulatory T-Cells.** *33<sup>rd</sup> Annual Forum of the ACVIM, Indianapolis, Indiana. Abstract Published in JVIM.*

Thomason, J., Archer, T., Bulla, C., and Mackin, A. (2014). **Effects of *In Vitro* Exposure of Canine Platelets to Pentoxifylline on Platelet Aggregometry.** *32nd Annual Forum of the ACVIM, Nashville, Tennessee. Abstract published in JVIM.*

Haines, J., Thomason, J., Bulla, C., Seage, E., Wills, R., Lunsford, K., and Mackin, A. (2014) ***In Vitro* and *In Vivo* Assessment of Platelet Function in Healthy Dogs During Exposure to Low-Dose Aspirin.** *32nd Annual Forum of the ACVIM, Nashville, Tennessee. Abstract published in JVIM.*

Thomason, J., Archer, T., Press, S., and Mackin, A. (2014). **Effects of Cyclosporine and Aspirin on Canine Platelet Function.** Late-breaking research abstract, *32nd Annual Forum of the ACVIM, Nashville, Tennessee.*

Mackin, A., Weaver, K., Martin, P., Gunnoe, G., Shafer, L., Follows, J., Stokes, J., Pinchuk, L., McKenna, M., Birkenheuer, A., and Dow, S. (2013). **Use of Liposomal Clodronate to Facilitate Detection of Subclinical Infection with *Babesia canis* in Greyhounds.** *31st Annual Forum of the ACVIM, Seattle, Washington. Abstract published in JVIM.*

Fellman, C., Archer, T., Stokes, J., Lunsford, K., and Mackin, A. (2012). **Effects of Oral Cyclosporine on Canine T-Cell Expression of IL-2 and IFN- $\gamma$  Across a 12-Hour Dosing Interval.** *30<sup>th</sup> Annual Forum of the ACVIM, New Orleans, Louisiana.* Abstract published in *JVIM*.

Thomason, J., Lunsford, K., Stokes, J., Mullins, K., Pinchuk, L., Langston, C., Wills, R., McLaughlin, R., and Mackin, A. (2012). **Effects of ‘COX-2 Selective’ Non-Steroidal Anti-Inflammatory Drugs on Canine Platelet Function and Cyclooxygenase Expression.** *30<sup>th</sup> Annual Forum of the ACVIM, New Orleans, Louisiana.* Abstract published in *JVIM*.

Fellman, C., Flores, R., Archer, T., Stokes, J., Pinchuk, L., Lunsford, K., and Mackin, A. (2011). **Effects of Cyclosporine and Dexamethasone on Canine T-Cell Expression of IL-2 And IFN- $\gamma$  as Measured by Flow Cytometry and Quantitative RT-PCR.** *29<sup>th</sup> Annual Forum of the American College of Veterinary Internal Medicine, Denver, Colorado.* Abstract published in *JVIM*.

Dudley, A., Thomason, J., Grady, J., Pinchuk, L., Mackin, A., and Lunsford, K. (2011). **Effects of Low Dose Aspirin on Canine Platelet Function.** *29<sup>th</sup> Annual Forum of the American College of Veterinary Internal Medicine, Denver, Colorado.* Abstract published in *JVIM*.

Archer, T., Fellman, C., Stokes, J., Lunsford, K., Pinchuk, L., Pruett, S., Langston, C., and Mackin, A. (2010). **Effects of Different Oral Doses of Cyclosporine On T-Lymphocyte Biomarkers of Immunosuppression in Normal Dogs.** *28<sup>th</sup> Annual Forum of the American College of Veterinary Internal Medicine, Anaheim, California.* Abstract published in *JVIM*.

Thomason, J., Mackin, A., Stokes, J., Wallace, M., Pinchuk, L., Pruett, S., Langston, C., and Lunsford, K. (2010). **Effects of Cyclosporine on Platelet Activity in Normal Dogs.** *28<sup>th</sup> Annual Forum of the American College of Veterinary Internal Medicine, Anaheim, California.* Abstract published in *JVIM*.

Thomason, J., Lunsford, K., Mackin, A., Pinchuk, L., Pruett, S., and Langston, C. (2010). **Effects of Aspirin on Canine Platelet Cyclooxygenase Expression.** *28<sup>th</sup> Annual Forum of the American College of Veterinary Internal Medicine, Anaheim, California.* Abstract published in *JVIM*.

Thomason, J., Lunsford, K., Mackin, A., Pinchuk, L., Pruett, S., and Langston, C. (2009). **Effects of Cyclosporine on Canine Platelet Procoagulant Activity.** *27<sup>th</sup> Annual Forum of the American College of Veterinary Internal Medicine, Montreal, Canada.* Abstract published in *JVIM*.

Archer, T., Lunsford, K., Mackin, A., Fellman, C., Stokes, J., Pinchuk, L., Pruett, S., and Langston, C. (2009). **Development of a Flow Cytometric Panel of T-Lymphocyte Biomarkers to Evaluate the Immunosuppressive Effects of Cyclosporine In Dogs.** *27<sup>th</sup> Annual Forum of the American College of Veterinary Internal Medicine, Montreal, Canada.* Abstract published in *JVIM*.

