Curriculum Vitae

**Name:** Andrew John Mackin **Born:** September 27, 1961

**Citizenship:** Australian/United States **Country of Residence:** United States of America

**Address:** College of Veterinary Medicine **Telephone:** 662 325 6631

Mail Stop 9825,Mississippi State University **Fax:** 662 325 4011

Mississippi State, MS 39762-6100 **Email:** mackin@cvm.msstate.edu

**Education:**

**Bachelor of Science**  Murdoch University, Western Australia **1981**

**Bachelor of Veterinary Medicine & Surgery** Murdoch University, Western Australia **1983**

**Master of Veterinary Studies**  University of Melbourne, Victoria **1988**

**Doctor of Veterinary Science**  University of Guelph, Ontario **1994**

**Employment:**

**Staff Veterinarian** Karratha Veterinary Hospital, **1984-1985**

**(Small Animal Practice)** Karratha, Western Australia

**Intern/Resident** University of Melbourne Veterinary **1985-1989**

**(Small Animal Medicine)** Clinical Centre, Werribee, Victoria

**Staff Veterinarian** Reservoir Veterinary Clinic, **1989-1990**

**(Small Animal Practice)** Reservoir, Victoria

**Clinical Instructor** Western College of Veterinary Medicine, **1990**

**(Small Animal Medicine)** Saskatoon, Saskatchewan

**Resident** Ontario Veterinary College, **1990-1994**

**(Small Animal Medicine)** Guelph, Ontario

**Staff Clinician** University of Montreal Veterinary School, **1994**

**(Small Animal Medicine)** Saint Hyacinthe, Quebec

**WALTHAM Lecturer** Royal (Dick) School of Veterinary Studies, **1994-1998**

**(Medicine/Nutrition)** Edinburgh, Scotland

**Assistant/Associate Professor** College of Veterinary Medicine, **1998-2008**

**(Small Animal Medicine)** Mississippi State University, Mississippi

**Dr. Hugh Ward Chair** College of Veterinary Medicine, **2002-2014**

**in Small Animal Medicine** Mississippi State University, Mississippi

**Professor** College of Veterinary Medicine, **2009 onwards**

**(Small Animal Medicine)** Mississippi State University, Mississippi

**Interim Head,** College of Veterinary Medicine, **2014-2016**

**Clinical Sciences** Mississippi State University, Mississippi  
  
**Department Head,** College of Veterinary Medicine, **2016 onwards**

**Clinical Sciences** Mississippi State University, Mississippi

**Professional Qualifications**

Fellowship (Canine Medicine), Australia and New Zealand College of Veterinary Scientists

Diploma (Internal Medicine), American College of Veterinary Internal Medicine

**Professional Affiliations:**

Member, American Veterinary Medical Association

Member, Mississippi Veterinary Medical Association

**Honors and Awards:**

**1983:** Murdoch University Veterinary Studies Merit Award

Australian Equine Veterinary Association/Adamson Prize in Equine Medicine/Surgery

**1992:** American College of Veterinary Internal Medicine Distinguished Research Award

**1994:** University of Guelph Distinction Award (DVSc Program)

**2000:** British Small Animal Veterinary Association Petsavers Award

Dean's Pegasus Award for Research/Creative Achievement, MSU-CVM

**2004:** Phi Zeta Honor Society of Veterinary Medicine, Omega Chapter (invited membership).

**2005:** Nominee (MSU-CVM Senior class), Norden Teaching Award

**2006:** Recipient, MSU-CVM Carl Norden-Pfizer Distinguished Teacher Award

**2010:** Recipient,MSU-CVM Dean's Pegasus Award

**2011:** Recipient, Rande, Linda and Lauren Lazar Faculty Award

**Reviewing Responsibilities:**

1. Reviewer, Hematology and Hemostasis Abstracts, Annual ACVIM Forum (1998 on)
2. Editorial Review Panel, Journal of the American Animal Hospital Association (2005 on)
3. Reviewer, Veterinary Book Proposals, Wiley Publishing (2011 on)
4. Ad Hoc Reviewer, Journal of Small Animal Practice
5. Ad Hoc Reviewer, Veterinary Research Communications
6. Ad Hoc Reviewer, Veterinary Record
7. Ad Hoc Reviewer, In Practice
8. Ad Hoc Reviewer, Journal of Veterinary Internal Medicine
9. Ad Hoc Reviewer, Veterinary Medicine
10. Ad Hoc Reviewer, Pharmacogenetics
11. Ad Hoc Reviewer, American Journal of Veterinary Research
12. Ad Hoc Reviewer, Journal of Feline Medicine and Surgery
13. Ad Hoc Reviewer, NAVC Clinician’s Brief
14. Ad Hoc Reviewer, Canadian Journal of Veterinary Research
15. Ad Hoc Reviewer, Veterinary Journal
16. Ad Hoc Reviewer, Veterinary Sciences
17. Ad Hoc Reviewer, Journal of Veterinary Pharmacology and Therapeutics
18. Ad Hoc Reviewer, Australian Veterinary Journal Veterinary Medicine and Science
19. Ad Hoc Reviewer, Veterinary Medicine and Science
20. Ad Hoc Reviewer, Clinical Case Reports
21. Ad Hoc Reviewer, Veterinary Clinical Pathology
22. Ad Hoc Reviewer, Tieraerztliche Praxis
23. Ad Hoc Reviewer, BMC Veterinary Research:

**Funding/Grant Applications:**

**Successful:**

**1990:** Ontario Veterinary College Pet Trust **$4,000**

Mackin AJ, Allen DG, Johnstone IB:   
**Canine Platelet Responses to Vincristine Sulphate**.

**1992:** Ontario Veterinary College Pet Trust **$2,500**

Mackin AJ, Allen DG, Johnstone IB:

**Platelet Responses to Vincristine and Prednisone**.

**1995:** BSAVA Clinical Studies Trust Fund (Petsavers) **$52,000**

Mackin AJ, Simpson JS:

**New CSTF Residency with associated research project.**

**1996:** WALTHAM Centre for Pet Nutrition **$85,500**

Mackin AJ, Halliwell REW, Simpson JS:

**Immunological Study of Dogs with Food Allergic Diseases.**

BSAVA Clinical Studies Trust Fund (Petsavers) **$1,200**

Mackin AJ, Knottenbelt CM:

**Evaluation of Local Distribution of Feline Blood Types.**

**1997:** R(D)SVS Faculty Postgraduate Studies Committee **$750**

Mackin AJ, Hodson, S:

**Determination of Platelet Numbers in the Cat (Pilot).**

BSAVA Clinical Studies Trust Fund (Petsavers) **$1,000**

Mackin AJ, Hodson S:

**Methods of Determination of Platelet Numbers in the Cat.**

1998: MSU Intra-College (CVM) Multi-Investigator Grant Program $4,846

Mackin A, Langston C, Austin F, Weigand C:

**Pharmacokinetics/Toxicology of Oral Methenamine in Dogs.**

MSU In-House Clinical Grant Program $2,220

Mackin A, Paulsen D:

**Von Willebrand’s Factor in Dogs with Hemangiosarcoma (Pilot).**

**1999:** Iams Company **$35,905**

Mackin A, Weigand C, Tyler J, Kern M, Thomas M, Nelson P:

*Placement of Esophagostomy Feeding Tubes in Dogs.*

Mississippi State University Research Initiation Program **$7,780**

Mackin A:

**Characterization of vWf in Dogs with Hemangiosarcoma.**

American Animal Hospital Association Foundation **$3,427**

*Mackin A, Weigand C, Gellasch K, Boyle C:*

*Damage to Canine Red Cells Associated with Infusion Pumps.*

Morris Animal Foundation **$4,200**

*Mackin A, Paulsen D:*

**Characterization of vWf in Dogs with Hemangiosarcoma**.

MSU CVM Office of Research Intern Clinical Research Grant Program **$500**

*Clark B, Mackin A, Easley R:*

**Bone Marrow Aspiration from the Rib in Dogs.**

**2000:** Winn Feline Foundation **$12,197**

Mackin AJ, Siefker, Ballweber L:

**Investigation of Cuterebra as a Cause of Neurologic Disease in Cats.**

**Successful (Continued):**

2000: American Animal Hospital Association Foundation $1,207

*Mackin A, Easley R, Clark B:*

*Bone Marrow Aspiration from the Rib in Dogs.*

International Sled Dog Veterinary Medical Association **$4,840**

Paglia D, Mackin A:

**Effects of Vitamin E Supplementation on Hemostasis in Sled Dogs.**

MSU CVM Office of Research Intern Clinical Research Grant Program **$1,433**

Hammer K, Mackin A:

**Acid-Base Status in Hypovolemic Dogs on Intravenous Fluids.**

MSU CVM Office of Research Intern Clinical Research Grant Program **$646**

Bates C, Mackin A:

**Effects of Kanamycin on Artifactual Thrombocytopenia in Cats.**

**2001:** American Animal Hospital Association Foundation **$4,200**

Hammer K, Mackin A:

**Acid-Base Status in Hypovolemic Dogs on Intravenous Fluids.**

American Animal Hospital Association Foundation **$950**

Mackin A, Bates C:

**Kanamycin/EDTA Mix to Prevent Pseudothrombocytopenia in Cats.**

MSU In-House Clinical Grant Program $10,000

Rodriguez D, Mackin A, Langston C, Easley R, McLeod H:

**Phenotypic and Genotypic Characterization of Red Blood Cell Thiopurine   
Methyltransferase Enzyme Activity in Dogs Receiving Azathioprine.**

MSU CVM Office of Research Intern Clinical Research Grant Program **$1,041**

Janda A, Mackin A, Jennings D:

**BAER Potentials in Labrador Retrievers Used for Hunting.**

**2002:** American Animal Hospital Association Foundation **$1,041**

Janda A, Mackin A, Jennings D:

**BAER Potentials in Labrador Retrievers Used for Hunting.**

American Animal Hospital Association Foundation **$13,602**

Vasilopulos R, Mackin A, Ballweber L, Taylor C, Pharr GT:

**Giardia Strain Variations and Relationship to Clinical Signs in Cats.**

MSU CVM Office of Research Intern Clinical Research Grant Program **$700**

Betbeze C, Hendrix PK, McLaughlin R, Mackin A:

**Comparison of Two Techniques for Regional Anesthesia in the Eye of Dogs.**

MSU CVM Office of Research Intern Clinical Research Grant Program **$1,000**

Portillo E, Mackin A, Hendrix PK, Chrestman L:

**Comparison of the Modified Seldinger Technique & Through-The-Needle   
Jugular Catheter Placement Techniques in the Dog.**

**2003:** American Animal Hospital Association Foundation **$700**

Betbeze C, Hendrix PK, McLaughlin R, Mackin A:

**Comparison of Two Techniques for Regional Anesthesia in the Eye of Dogs.**

MSU CVM Office of Research Intern Clinical Research Grant Program **$243**

Loveland H, Mackin A:

**Comparison of Two Canine Buccal Mucosa Bleeding Time Methods.**

MSU CVM Office of Research Intern Clinical Research Grant Program **$1,000**

Lathan P, Hendrix PK, Mackin A, Boyle CR:

**Effects of Buccal Buprenorphine on Stress Hyperglycemia in Cats.**

American Red Cross **$1,974**

Mackin A, Balch A:

**Photoinactivation of Canine Blood Products (Pilot Study).**

**Successful (Continued):**

**2004:** Winn Feline Foundation **$1,195**

Lathan P, Hendrix PK, Mackin A, Boyle CR:

**Effects of Buccal Buprenorphine on Stress Hyperglycemia in Cats.**

American Animal Hospital Association Foundation **$243**

Loveland H, Mackin A:

**Comparison of Canine Buccal Mucosa Bleeding Times Techniques.**

American Animal Hospital Association Foundation **$2,645**

Lunsford K, Langston C, Mackin A, Brooks M:

**Pharmacokinetics of Biological Effects of Subcutaneous Enoxaparin in Dogs.**

American Red Cross **$26,432**

Mackin A, Balch A:

**Photoinactivation of Canine Blood Products.**

MSU Institute for Neurocognitive Science and Technology **$4,033**

Mackin A, Lunsford K, Pinchuk L, Poteet B:

**MION Labeling of Red Blood Cells for Magnetic Resonance Imaging in Dogs.**

**2005:** Abaxis Incorporated **$7,522**

Mackin A:

**Clinical Evaluation of a New In-House Bile Acid Assay.**

National Blood Foundation Scientific Research Grant Program **$22,733**

Mackin A, Balch A, Pinchuk L, Ballweber L, Wagner S, Skripchenko A:

**Phototreatment of RBCs to Prevent Transfusion Transmission of Babesiosis in Dogs.**

**2007:** Mississippi State University Research Initiation Program **$10,000**

Lunsford K, Brinkman E, Mackin A, Pinchuk L:

**MION Labeling of RBCs for Magnetic Resonance Imaging in Dogs.**

**2008:** MSU CVM Office of Research Intern Clinical Research Grant Program **$3,364**

Bryan C, Lunsford K, Mackin A:

**Effects of Intravenous Hetastarch, Pentastarch and Saline on Hemostasis in Normal Dogs.**

MSU CVM Office of Research Intern Clinical Research Grant Program **$700**

Iacovetta C, Lunsford K, Mackin A, McDonald R, Luthe J:

**Estimation of Colloid Osmotic Pressure in Dogs Based on Albumin and Globulin.**

**2009:** American College of Veterinary Internal Medicine Foundation **$12,500**

Mackin A, Archer T, Lunsford K, Langston C, Pinchuk L, Pruett S:

**Comprehensive Evaluation of the Pharmacodynamics of Cyclosporine in the Dog.**

MSU-CVM Office of Research and Graduate Studies Grants **$10,000**

Lunsford K, Thomason J, Mackin A, Pinchuk L, Langston C, Ross M, Pruett S:

**Effects of Cyclosporine on Canine Platelet Procoagulant Activity.**

**2010:** MSU-CVM Office of Research and Graduate Studies Grants **$10,000**

Mackin A, Lunsford K, Archer T, Parr T, Bulla C, Pinchuk L, Wills B:

**Role of Efflux Pumps in Cyclosporine Pharmacodynamics.**

Marcia Lane Humane Ethics and Animal Welfare Endowment Fund **$3,000**

Lefebvre S, Lunsford K, Wallace M, Mackin A, Bushby P:

**Effects of Thrombocytopenia on Platelet Function Analzyer-100® Closure Times in Dogs.**

MSU-CVM Office of Research and Graduate Studies (Application for Seed Funding) **$9,769**

Archer T, Lunsford K, Mackin A, Bulla C:

**Effects of Cyclosporine and Prednisolone on Canine T-Cell Expression of IL-2 and IFN-γ.**

MSU-CVM ORGS House Officer Internal Grants Program **$2,000**

Dudley A, Thomason J, Lunsford K, Mackin A:

**Effects of Low Dose Aspirin on Canine Platelet Function and Cyclooxygenase Expression.**

**Successful (Continued):**

**2010:** MSU-CVM Office of Research and Graduate Studies Internal Grants Program **$10,062**

Lunsford K, Archer T, Mackin A, Bulla C:

**Development of Canine Lymphocyte Cell Lines for Evaluation of Cellular Efflux Pumps.**

**2011:** MSU-CVM ORGS House Officer Internal Grants Program **$2,000**

Fellman C, Archer T, Lunsford K, Mackin A:

**Q-RT-PCR Assessment of Effects of Cyclosporine on Canine T-Cell Cytokine Expression.**

MSU-CVM ORGS House Officer Internal Grants Program **$2,000**

Haines J, Thomason J, Bulla C, Mackin A, Lunsford K:

**Assessment of Platelet Function in Dogs after Administration of Low-Dose Aspirin.**

MSU-CVM Office of Research and Graduate Studies **$8,119**

Manion J, Langston C, Claude A, Mackin A, Brooks M, Lunsford K: **Pharmacokinetics of Inhaled Heparin in the Dog.**

**2012:** MSU-CVM Office of Research and Graduate Studies **$7,610**

Archer T, Mackin A, Bulla C:

**The Effect of Storage Conditions on T-Cell Cytokine Production in   
Whole Blood Samples Exposed to Cyclosporine.**

MSU-CVM Office of Research and Graduate Studies $**8,000**

Pinchuk L, Archer T, Mackin A:

**Role of Professional Antigen Presenting Cells in the Generation of**

**Regulatory T-Cells in Dogs Exposed to Babesia Canis.**

MSU-CVM Office of Research and Graduate Studies **$10,000**

Thomason J, Lunsford K, Bulla C, Ross M, Haines J, Mackin A:

**Influence of Aspirin on Platelet Eicosanoid Biosynthesis.**

MSU-CVM ORGS House Officer Internal Grants Program **$3,000**

Miller J, Brinkman E, Mackin A, Archer T:

**Cholangiography with 64-Multi-Detector Row CT in the Normal Dog and Cat.**

MSU-CVM ORGS House Officer Internal Grants Program **$2,000**

Seage E, Thomason J, Haines J, Lunsford K, Ross M, Bulla C, Mackin A:

**Alterations in Eicosanoid Biosynthesis During Low-Dose Aspirin in Normal Dogs.**

MSU-CVM ORGS House Officer Internal Grants Program **$2,000**

Blake R, Thomason J, Ross M, Mackin A:

**Eicosanoid Biosynthesis in Units of Stored Canine Packed Red Blood Cells.**

MSU-CVM ORGS House Officer Internal Grants Program **$1,920**

Sullivant A, Archer T, Mackin A, Cooley J, Pharr T:

**Identification of Histamine Receptors in the Canine Gastrointestinal Tract.**

MSU-CVM ORGS House Officer Internal Grants Program **$1,981**

Miller J, Brinkman-Ferguson E, Mackin A:

**Cholangiography with Computed Tomography in Dogs with Hepatobiliary Disease.**

**2013:** MSU-CVM Office of Research and Graduate Studies **$10,000**

Archer T, Thomason J, Fellman C, Pinchuk L, Stokes J, Mackin A:

**In-vivo Effects of Aspirin and Cyclosporine on Regulatory T-cells and   
T-Cell Cytokine Production in Healthy Dogs.**

MSU-CVM Office of Research and Graduate Studies **$10,000**

Thomason J, Archer T, Ross M, Bulla C, Mackin A:

**Immunosuppressive and Anti-Platelet Effects of Pentoxifylline in Healthy Dogs.**

New Med LLC **$8,560**

Butler JR, Lunsford KV, Langston VC, Mackin AJ, McLaughlin RM:

**Novel Antimicrobial Topical Treatment for Otitis Toxicity and Proof of Concept Studies.**

**Successful (Continued):**

**2013:** MSU-CVM ORGS House Officer Internal Grants Program **$2,000**

Khoo A, Thomason J, Haines J, Mackin A, Brinkman-Ferguson E:

**Gravity-Assisted Esophageal Transit Time in Dogs with Megaesophagus.**

MSU-CVM ORGS House Officer Internal Grants Program **$2,000**

Press S, Thomason J, Archer T, Mackin A, Ross M:

**Eicosanoid Levels in Dogs Receiving Blood Transfusions.**

Nestle Purina PetCare Research **$2,500**

Haines J, Thomason J, Khoo A, Mackin A, Brinkman-Ferguson E:

**Gravity-Assisted Esophageal Transit Time in Dogs with Megaesophagus.**

MSU-CVM ORGS House Officer Internal Grants Program **$2,000**

Sullivant A, Archer T, Mackin A, Cooley J, Pharr T:

**Validation of Immunohistochemistical Evaluatiom of GI Histamine Receptors in Dogs.**

**2014:** Morris Animal Foundation Pilot Study Grant **$10,697**

Thomason J, Ross M, Archer T, Mackin A:

**Effects of Leukoreduction on Eicosanoids in Stored Canine Packed RBCs.**

MSU-CVM Office for Research and Graduate Studies (ORGS) **$10,000**

Thomason J, Ross M, Archer T, Mackin A:

**Effects of Aspirin Dose Escalation on Platelet Function and Urinary Thromboxane   
and Prostacyclin Levels in Dogs.**

MSU-CVM Office for Research and Graduate Studies (ORGS) **$6,240**

Archer T, Thomason J, Fellman C, Kummari E, Riggs C, Mackin A:

**Pharmacodynamic Monitoring of Cyclosporine in Dogs with IMHA.**

**2015:** MSU-CVM ORGS House Officer Internal Grants Program **$2,000**

Foote ML, Thomason J, Archer T, Mackin A:

**Effects of Leukoreduction on Coagulation Factors in Units of Canine Fresh Frozen Plasma**

MSU-CVM ORGS House Officer Internal Grants Program **$2,000**

Muro S, Thomason J, Archer T, Stokes J, Mackin A:

**Effects of Storage and Leukoreduction on Phosphatidylserine Expression on   
Canine Packed Red Blood Cells**

MSU-CVM ORGS House Officer Internal Grants Program **$2,000**

Gerken K, Archer T, Lathan P, Thames B, Mackin A, Mlsna T:

**Xylitol Levels in Gum After Being Chewed for Differing Time Periods**

American College of Veterinary Emergency and Critical Care Research Grant **$4,150**

Thomason J, Foote ML, Archer T, Mackin A:

**Effects of Leukoreduction on Coagulation Factors in Units of Canine Fresh Frozen Plasma**

MSU-CVM Office for Research and Graduate Studies (ORGS) **$10,000**

Thomason J, Archer T, Mackin A:

**Effects of Immunosuppressive Agents on the Hemostatic System of Dogs**

American College of Veterinary Internal Medicine Foundation/VPRF **$17,993**

Mackin A, Lunsford K, Archer T, Fellman C, Boothe D:

**Pharmacodynamic Evaluation of Mycophenolate Mofetil in the Dog**

Stanton Foundation **$143,750**

Sullivant A, Mackin A, Morse D:

**Strategies to Improve Case Outcome When Referral is Not Affordable**

**2016:** American College of Veterinary Internal Medicine Foundation Research Fellowship **$25,000**

Mackin A, Archer T, Thomason J:

**Clinical Research Fellowship in Small Animal Hematology**

MSU-CVM Office for Research and Graduate Studies (ORGS) **$10,000**

Thomason J, Nanduri B, Mackin A:

**Proteomic Analysis of Erythrocyte Storage Lesions in Stored Canine Packed RBCs**

**Successful (Continued):**

**2018:** MSU-CVM ORGS House Officer Internal Grants Program **$1,983**

Cridge H, Archer T, Thomason J, Mackin A, Kumar S:

**In-Vitro Evaluation of Cyclosporine Pharmacodynamics in Healthy Cats**

MSU-CVM Office for Research and Graduate Studies (ORGS) **$9,610**

Thomason J, Sullivant A, Archer T, Mackin A:

**Effects of Storage and Leukoreduction on Histamine Concentrations in   
Units of Stored Canine Packed Red Blood Cells**

MSU-CVM Office for Research and Graduate Studies (ORGS) **$10,000**

Sullivant A, Olivier A, Archer T, Mackin A, Thomason J:

**Expression of Gastrointestinal Histamine Receptors in   
Canine Inflammatory Bowel Disease**

American Veterinary Medical Foundation/VPRF **$14,634**

Thomason J, Langston C, Archer T, Brooks M, Mackin A:

**Population Pharmacokinetics of Subcutaneous Enoxaparin in Hypercoagulable Dogs**

MSU-CVM ORGS House Officer Internal Grants Program **$2,000**

Moore-Henderson B, Thomason J, Archer T, Mackin A:

**Combined Effects of Cyclosporine and Prednisone on T-Cell Cytokine   
Production in Healthy Dogs**

**Student-Based Proposals (Successful):**

**1999:** Salsbury Research Scholarship **$1,765**

Herndon W, Mackin A:

**Investigation of EDTA-Dependent Pseudothrombocytopenia in the Dog.**

MSU CVM Student Summer Research Experience Program **$1,200**

Betbeze C, Mackin A:

**Development of Dermal Hypersensitivity Testing in the Dog.**

**2000:** MSU CVM Student Summer Research Experience Program **$4,000**

Rhodus L, Mackin A:

**Development of an ELISA for Cuterebriasis in the Cat.**

MSU CVM Student Summer Research Experience Program **$1,200**

Pansky T, Mackin A:

**Development of a New Multimeric Analysis Method for Canine vWf.**

**2009:** Morris Animal Foundation Veterinary Student Scholars Program **$4,000**

Fellman C, Lunsford K, Archer T, Mackin A:

**Pharmacodynamics of Cyclosporine-Mediated Immunosuppression in the Dog.**

**2010:** Salsbury Research Scholarship **$1,000**

Wallace M, Lefebvre S, Lunsford K, Mackin A, Bushby P:

**Effects of Thrombocytopenia on Platelet Function Analzyer-100® Closure Times in Dogs.**

W.H. Lindley Fund for Excellence **$1,000**

Grady J, Thomason J, Lunsford K, Mackin A:

**Effects of Low-Dose Aspirin Administration on Platelet Cyclooxygenase Expression in Dogs.**

Salsbury Research Scholarship **$1,000**

Fritz S, Thomason J, Lunsford K, Mackin A:

**Effects of Low Dose Aspirin on Platelet Function Analyzer-100® Closure Times in Dogs.**

**2015:** MSU-CVM Veterinary Student Research Initiative VSRI Grant Proposal **$1,500**

Lee B, Mulligan C, Mackin A, Thomason J, Archer T, Fellman C, Lunsford K, Langston C:

**In vitro Evaluation of Mycophenolic Acid on Markers of Immunosuppression in the Dog**

**2017:** MSU-CVM Veterinary Student Research Initiative VSRI Grant Proposal **$1,500**

Havill K, Thomason J, Frum J, Mackin A, Archer T:

**Anticoagulant Profile of Subcutaneous Enoxaparin in Healthy Dogs: Pilot Study**

**2018:** MSU-CVM Veterinary Student Research Initiative VSRI Grant Proposal **$1,500**

Andrews C, Thomason J, Frum J, Mackin A, Archer T:

**Anticoagulant Profile of High Dose Subcutaneous Enoxaparin in Healthy Dogs**

**Application Not Successful:**

**1996:** Guide Dogs for the Blind Association  **$168,000**

Mackin AJ, Halliwell REW, Day, M:   
**Von Willebrand’s Factor in Dogs with Haemangiosarcoma**.

**1998:** Ralston Purina Company **$46,479**

Mackin A, Weigand C, Tyler J, Thomas M, Nelson P:

**Placement of Esophagostomy Feeding Tubes in Non-Anesthetized Dogs.**

Morris Animal Foundation **$32,944**

Mackin A, Langston C, Austin F, Weigand C:

**Methenamine for Preventing UTI in Dogs with Urethral Catheters.**

**1999:** Winn Feline Foundation **$14,862**

Mackin A, Langston C, Austin F, Weigand C:

**Methenamine for Preventing UTI in Cats with Urethral Catheters.**

Oak Ridge Associated Universities Junior Faculty Enhancement Award **$14,500**

Mackin A:

**Characterization of vWf in Dogs with Hemangiosarcoma.**

**2000:** American Association of Feline Practitioners/Academy of Feline Medicine **$10,000**

Mackin AJ, Siefker, Ballweber L:

**Investigation of Cuterebra as a Potential Cause of Neurologic Disease in Cats.**

International Sled Dog Veterinary Medical Association **$4,920**

Conley K, McLaughlin R, Mackin A:

**Acute Phase Proteins in Sled Dogs Before and After Racing.**

**2001:** Morris Animal Foundation **$17,582**

Mackin A, Vasilopulos R, Ballweber L, Taylor C, Pharr GT:

**Giardia Strain Variations and Relationship to Clinical Signs in Cats.**

Morris Animal Foundation **$26,599**

Rodriguez D, Mackin A, Langston C, Easley R, McLeod H:

**Phenotypic and Genotypic Characterization of TPMT Activity in Dogs.**

American Association of Feline Practitioners/Academy of Feline Medicine **$10,000**

Vasilopulos R, Mackin A, Ballweber L, Taylor C, Pharr GT:

**Giardia Strain Variations and Relationship to Clinical Signs in Cats.**

Canine Health Foundation (American Kennel Club) **$23,574**

Rodriguez D, Mackin A, Langston C, Easley R, McLeod H:

**Characterization of TPMT Activity in Dogs Receiving Azathioprine.**

Winn Feline Foundation **$13,902**

Ballweber L, Vasilopulos R, Mackin A, Taylor C, Pharr GT:

**Genotype Linked Differences in Signs Associated with Giardia in Cats.**

**2003:** American Animal Hospital Association Foundation **$4,831**

Portillo E, Mackin A, Hendrix PK, Chrestman L:

**Comparison of Two Jugular Catheter Placement Techniques in the Dog.**

**2004:** American College of Veterinary Internal Medicine Foundation **$10,000**

Mackin A, Balch A, Pinchuk L, Ballweber L, Wagner S, Skripchenko A:

**Phototreatment of Canine Blood to Prevent Transmission of Babesia Canis**

**2005:** MSU Life Sciences & Biotechnology Institute Competitive Grants Program **$10,000**

Mackin A, Ballweber L, Pinchuk L, Martin P, Balch A, Lunsford K:

**Innovative Methods for the Diagnosis of Babesia Canis in Greyhounds.**

American Kennel Club Canine Health Foundation **$20,816**

Mackin A, Ballweber L, Pinchuk L, Martin P, Balch A, Lunsford K:

**Diagnosis of Babesia Canis in Greyhounds.**

**Not Successful:**

**2006:** American College of Veterinary Emergency and Critical Care **$7,280**

Murray L, Mackin A:

**Evaluation of a Small Bore Chest Tube Placement Method in Dogs & Cats.**

**2008:** American Kennel Club Canine Health Foundation **$19,532**

Lunsford K, Thomason J, Langston C, Mackin A, Pinchuk L, Pruett S:

**Effects of Cyclosporine on Canine Platelet Procoagulant Activity.**

American College of Veterinary Emergency & Critical Care Foundation **$10,000**

Langston C, Lunsford K, Mackin A, Whitehead J:

**Creation of a Canine Serum Albumin Product Suitable for Transfusion.**

Oak Ridge Associated Universities Ralph E. Powe Junior Faculty Enhancement Awards **$10,000**

Lunsford K, Brinkman E, Mackin A, Pinchuk L:

**MION Labeling of RBCs for Magnetic Resonance Imaging in Dogs.**

**2009:** Michelson Foundation **$9,061,457**

Lunsford K, Pruett S, Pinchuk L, Shukla AJ, Johnson J, Memili E, Nanduri B, Karsi A,   
McCarthy F, Hopper R, Smith J, Johnson K, Lathan P, Ryan P, Bushby P, Mackin A, Cooley J:

**Auto-Boosting GNRH/Tissue Vaccine Implant for Sterilization in Dogs and Cats.**

American College of Veterinary Emergency and Critical Care Foundation **$1,250**

Iacovetta C, Lunsford K, Mackin A, McDonald R, Luthe J:

**Estimation of Colloid Osmotic Pressure in Dogs Based on Serum Albumin and Globulin.**

American College of Veterinary Emergency and Critical Care Foundation **$4,412**

Bryan C, Lunsford K, Mackin A:

**Effects of Intravenous Hetastarch and Saline on Hemostasis in Normal Dogs.**

The International Feline Foundation **$7,500**

Lathan P, Bryan C, Langston C, Lunsford K, Mackin A, Pruett S, Johnson J, Qu W:

**Development of a Biodegradable Gel-Insulin for the Management of Diabetes in the Cat.**

**2010:** American College of Veterinary Internal Medicine Foundation/VPRF **$17,812**

Mackin A, Langston C, Archer T, Lunsford K, Pharr T, Bulla C:

**Effects of Efflux Pump Activity on Pharmacodynamics of Cyclosporine in Dogs.**

Morris Animal Foundation **$5,034**

Lunsford K, Bulla C, Thomason J, Marquardt T, Mackin A:

**Development of Efflux Pump Function Assays in Canine Lymphoma Patients.**

**2011:** Morris Animal Foundation **$7,854**

Archer T, Lunsford K, Fellman C, Langston C, Mackin A:

**Pilot Study: Pharmacokinetics of Dantrolene in the Dog.**

**2012:** American Kennel Club Canine Health Foundation **$112,654**

Mackin A, Archer T, Lunsford K, Langston C:

**Measurement of T-Cell Expression of Interleukin-2 and Interferon-γ in Dogs Receiving   
Oral Cyclosporine for the Treatment of Anal Furunculosis.**

Nestlé Purina Veterinary Residents' Research Grants Program **$7,231**

Miller J, Brinkman E, Mackin A, Archer T:

**Cholangiography with 64-Multi-Detector Row CT in the Normal Dog and Cat.**

Morris Animal Foundation **$8,993**

Miller J, Brinkman E, Mackin A, Archer T:

**Cholangiography with 64-Multi-Detector Row CT in the Normal Dog and Cat.**

American College of Veterinary Internal Medicine Foundation Resident Grant **$4,014**

Thomason J, Haines J, Lunsford K, Bulla C, Mackin A:

**Prediction of Clinical Response to Low-Dose Aspirin in Dogs.**

**Not Successful:**

**2013:** Morris Animal Foundation First Award Proposal **$15,312**

Archer T, Bulla C, Riggs C, Fellman C, Thomason J, Mackin A:

**Pharmacodynamic Monitoring of Cyclosporine in Dogs with   
Immune-Mediated Hemolytic Anemia.**

Morris Animal Foundation Pilot Study Award **$10,440**

Thomason J, Blake R, Ross M, Archer T, Mackin A:

**Eicosanoid Biosynthesis in Units of Stored Canine Packed Red Blood Cells.**

Morris Animal Foundation Pilot Study Award **$5,010**

Sullivant A, Archer T, Mackin A, Cooley J:

**Evaluation of Gastrointestinal Histamine Receptors in Dogs with   
Inflammatory Bowel Disease.**

Morris Animal Foundation Pilot Study Award **$9,854**

Miller J, Brinkman-Ferguson E, Mackin A, Archer T:

**Cholangiography with 64-Multi-Detector Row Computed Tomography in Dogs with Hepatobiliary Disease.**

American College of Veterinary Internal Medicine Foundation/VPRF **$6,014**

Thomason J, Archer T, Ross M, Bulla C, Mackin A:

**Effects of Cyclosporine and Low-Dose Aspirin on Canine Platelet Function.**

**2014:** Morris Animal Foundation First Award Grant **$19,401**

Thomason J, Ross M, Archer T, Mackin A:

**Effects of Aspirin Dose Escalation on Platelet Function and Urinary Thromboxane   
and Prostacyclin Levels in Dogs.**

**2014:** American College of Veterinary Emergency and Critical Care Research Grant **$2,675**

Thomason J, Press S, Archer T, Mackin A, Ross M:

**Eicosanoid Levels in Dogs Receiving Blood Transfusions**

American College of Veterinary Internal Medicine Foundation **$18,000**

Thomason J, Archer T, Mackin A:

**Effects of Immunosuppressive Agents on the Hemostatic System in Dogs**

**2015:** Morris Animal Foundation Human Animal Bond Research Initiative Foundation **$29,547**

Grace S, Bryan C, Mackin A, Payne L:

**Zoonotic Diseases in Pets Belonging to Women Entering a Regional Domestic Violence Shelter**

American College of Veterinary Emergency and Critical Care Research Grant **$2,500**

Thomason J, Muro S, Archer T, Stokes J, Mackin A:

**Effects of Storage and Leukoreduction on Phosphatidylserine Expression on   
Canine Packed Red Blood Cells**

American College of Veterinary Emergency and Critical Care Research Grant **$3,450**

Archer T, Gerken K, Lathan P, Thames B, Mackin A, Mlsna T:

**Xylitol Levels in Gum After Being Chewed for Differing Time Periods**

Morris Animal Foundation **$26,556**

Thomason J, Archer T, Mackin A:

**Effects of Immunosuppressive Agents on the Hemostatic System of Dogs**

**2016:** Morris Animal Foundation **$9,627**

Archer T, Thomason J, Narayanan L, Mulligan C, Durso L, Thames B, Mackin A:

**Recovery of T-Cell Function in Dogs Following Cessation of Cyclosporine Therapy**

Morris Animal Foundation **$10,697**

Thomason J, Nanduri, B., Mackin A:

**Proteomic Analysis of RBC Storage Lesions in Units of Stored Canine Packed Red Cells**

Robert Wood Johnson Foundation **$314,861**

Woodruff K, Shivley J, Brookshire C, Franz D, Mackin A, Smith D, Doolittle M:

**Animals in Focus**

**Not Successful:**

**2016:** MSU-CVM Office for Research and Graduate Studies (ORGS) **$10,000**

Archer T, Thomason J, Kumar S, Mulligan C, Mackin A:

**Dose Escalation Study Evaluating the In Vivo Effects of Oral Tacrolimus   
on Activated T-Cell Cytokine Expression in Healthy Dogs**

**2017:** MSU-CVM Office for Research and Graduate Studies (ORGS) **$7,499**

Archer T, Thomason J, Kumar S, Cridge H, Mackin A:

**In Vitro Development of a Polymerase Chain Reaction Assay for the Pharmacodynamic Monitoring of Cyclosporine in Cats**

American Veterinary Medical Foundation/VPRF **$23,058**

Thomason J, Archer T, Brooks M, Mackin A:

**Anticoagulant Profile of Subcutaneous Enoxaparin in Heathy Dogs**

American Veterinary Medical Foundation/VPRF **$19,239**

Kaplan B, Ross M, Mackin A, Archer T, Thomason J:

**Immunopharmacology of the Non-psychoactive Cannabinoid, Cannabidiol, in the Dog**

Winn Feline Foundation **$14,297**

Whittemore J, Archer T, Thomason J, Kumar S, Cridge H, Mackin A:

**Comprehensive Pharmacodynamic Evaluation of Cyclosporine in Cats**

**2018:** Morris Animal Foundation **$24,005**

Thomason J, Archer T, Mackin A:

**Anticoagulant Profile of Subcutaneous Enoxaparin During Dose Escalation in Dogs**

American Veterinary Medical Foundation/VPRF **$12,296**

Thomason J, Moore-Henderson B, Archer T, Mackin A:

**Combined Effects of Cyclosporine and Prednisone on T-Cell Cytokine   
Production in Healthy Dogs**

**2019:** Morris Animal Foundation **$153,844**

Kaplan B, Mackin A, Archer T, Thomason J, Ross M:

**Alteration of Immune Function by Cannabinoids in Cells from Dogs with Inflammation   
and/or Pain**

**Pre-Proposals:**

1998: Mackin A, Scott-Moncrieff C:

Cross-Species Use of Intravenous Immunoglobulin (Bovine Source) in Dogs

Mackin A:

**Feline Hemobartonellosis: A Model for the Evaluation of Resistance to Infection**

**Application Pending:**

**2019:** American College of Veterinary Internal Medicine Resident Research Grant **$8,602**

Coll A, Thomason J, Mackin A:

**Effects of Washing Units of Canine Red Blood Cells on Storage Lesions**

MSU-CVM ORGS House Officer Internal Grants Program **$2,000**

Coll A, Thomason J, Mackin A:

**Effects of Washing Units of Canine Red Blood Cells on Storage Lesions**

**Past and Ongoing Research:**

**1990-1993: Effects of Vincristine on Normal Canine Platelet Number and Function**

Chief investigator in Canadian research project based at the Ontario Veterinary College.

**1994: Gastric Ulceration in Growing Pigs**

Co-investigator in Canadian collaborative project involving the Ontario Veterinary and Agricultural Colleges of the University of Guelph.

**1995-1998: Prevalence of Feline Blood Types in Scotland and Northern England**

Supervisor of UK clinical project involving the Universities of Edinburgh & Bristol.

**1996-1998: Immunologic Study of Dogs with Food Allergic Skin/Gastrointestinal Disease**

Project leader in UK research project involving the University of Edinburgh and the WALTHAM Centre of Pet Nutrition.

**Evaluation of Methods for Determination of Platelet Numbers in the Cat**

Supervisor of Scottish clinical research project involving the University of Edinburgh and Glasgow University.

**1997-1998: Efficacy of ACE Inhibitors in Cats with Chronic Renal Failure**

Participant in UK multicenter clinical research project in collaboration with Novartis Animal Health UK Ltd.

**1998:** **Pharmacokinetic and Toxicologic Study of Oral Methenamine in the Dog**

Chief investigator, multidisciplinary project within the Mississippi State University College of Veterinary Medicine.

**Von Willebrand’s Factor in Dogs with Hemangiosarcoma**

Chief investigator, Mississippi State University, pilot study in collaboration with Cornell University and various other US university teaching hospitals.

**1999: Damage to Canine Red Cells Associated with Infusion Pumps**

Co-investigator and supervisor, Mississippi State University College of Veterinary Medicine, Intern clinical research project.

**Placement of Esophagostomy Feeding Tubes in Dogs**

Chief investigator, multidisciplinary project within MSU CVM.

**Investigation of Effects of Anticoagulant/Storage on Canine Platelet Counts.**

Supervisor, MSU CVM Salsbury Scholarship student project.

**Bone Marrow Aspiration from the Rib in Dogs**

Co-investigator and supervisor, MSU CVM Intern research project.

**2000:** **Cuterebriasis as a Cause of Acute Neurologic Disease in Cats**

Chief investigator, Mississippi State University, study in collaboration with local practitioners, Antech, and various North American teaching hospitals.

**2001: Acid-Base Status in Hypovolemic Dogs on Intravenous Fluids**

Co-investigator and supervisor, MSU CVM Intern research project.

**Effects of Vitamin E Supplementation on Hemostasis in Sled Dogs.**

Co-investigator and supervisor, Alaska-based clinical study.

**Investigation of RBC Thiopurine Methyltransferase Enzyme Activity in Dogs.**

Co-investigator and supervisor, MSU CVM Resident collaborative research project.

**2002: Evaluation of Hearing in Labrador Retrievers Used for Hunting.**

Co-investigator and supervisor, MSU CVM Intern research project.

**Giardia Strain Variations and Relationship to Clinical Signs in Cats.**

Co-investigator and co-supervisor, MSU CVM Resident/Masters research project.

**Comparison of Two Jugular Catheter Placement Techniques in the Dog.**

Co-investigator and supervisor, MSU CVM Intern research project.

**Past and Ongoing Research (Continued):**

**2003: Photoinactivation of Canine Blood Products.**

Co-investigator and supervisor, MSU CVM Resident collaborative research project.

**Buccal Mucosa Bleeding Time Techniques in the Dog.**

Co-investigator and supervisor, MSU CVM Intern research project.

**Pharmacokinetics of Subcutaneous Enoxaparin in the Dog.**

Co-investigator and supervisor, MSU CVM Intern research project.

**2005: MION Labeling of RBCs for Magnetic Resonance Imaging in Dogs.**

Co-investigator and co-supervisor, MSU CVM Resident/Masters research project.

**2010: Role of Efflux Pumps in Cyclosporine Pharmacodynamics.**

Co-investigator and co-supervisor, PhD research project.

**2009-2011: Effects of Selected Non-Steroidal Anti-Inflammatory Drugs on Platelet Function.**

Co-investigator, MSU CVM Resident/Masters research project.

**2008-2012: Effects of Cyclosporine on Canine Platelet Procoagulant Activity.**

Co-investigator and co-supervisor, MSU CVM Resident/Masters.

**2011-2012: Pharmacokinetics of Oral Dantrolene in the Dog.**

Co-investigator, MSU-CVM student summer research experience project.

**2012: Effects of Liposomal Clodronate on Babesia Status in Exposed Greyhounds.**

Principal investigator.

**2008 on: Comprehensive Evaluation of Pharmacodynamics of Cyclosporine in the Dog.**

Co-investigator and co-supervisor, MSU CVM Resident/Masters research project and subsequent Resident/PhD and DVM/PhD research projects.

**2011 on: Characterization of the Effects of Aspirin on Canine Platelet Function.**

Co-investigator and co-supervisor, MSU CVM Resident/Masters project.

**2013 on: Effects of Storage, Handling and Leukoreduction on Blood Products.**

Co-investigator and co-supervisor, MSU CVM Resident/Masters project.

**2015 on: Comprenensive Pharmacodynamic Assessment of Multiple Immunosuppressive Agents (Mycophenolate, Cyclosporine, Azathioprine, Leflunomide, and Prednisolone).**

Co-investigator and co-supervisor, MSU CVM DVM/PhD project.

**Organizational (Professional/Continuing Education/Scientific):**

**1993:** **Course Co-Facilitator,** Ontario Veterinary College Companion Animal Certificate Series in Internal Medicine and Surgery: Oncology Module.

**1994:** **Course Co-Facilitator,** Ontario Veterinary College Companion Animal Certificate Series in Internal Medicine and Surgery: Feline Medicine.

**1995:** **Chair,** Clinical/Research Abstracts, Haematology Session, BSAVA Congress.

**Course Organizer,** Clinical Oncology and Critical Care Weekend Module, University of Edinburgh Small Animal Medicine Programme.

**1996:** **Chair,** Clinical/Research Abstracts, Infectious Diseases, BSAVA Congress.

**1997:**  **Course Organizer and Chief Tutor,** Haematology, Haemostasis and Cytology, BSAVA Weekend Residential Continuing Education Course, Reading.

**Chair,** Scientific Program, Immune-Mediated Diseases and Clinical Pathology sessions, WSAVA/BSAVA Congress.

**Course Organizer,** Problems in Small Animal Internal Medicine, BSAVA Regional Weekend Continuing Education Course, Jersey.

**Course Organizer,** Clinical Pathology Weekend Module, University of Edinburgh Small Animal Medicine Program.

**Examiner,** RCVS Statutory Examination for Membership.

**Member,** BSAVA Annual Congress Scientific Committee.

**1994-1998: Organizer,** Joint Edinburgh/Glasgow Resident Case Discussion Group.

**Mentor,** Membership Candidates Australian College of Veterinary Scientists.

**Advisor,** Royal College of Veterinary Surgeons Certificate Candidates.

**Examiner,** RCVS Diploma Candidates (speciality of Small Animal Medicine).

**Member,** RCVS Small Animal Medicine Specialty Advisory Board.

**User/Advisor,** Internet Grateful Med (IGM) Beta-Test Program.

**1998:** **Member,** ACVIM Internal Medicine Residency Training Committee.

**1999: Course Organizer,** Topics in Feline Medicine, Tuscaloosa County Veterinary Medical Association Winter Meeting, Tuscaloosa.

**Grant Reviewer,** Agriculture, Aquaculture and Agricultural Biotechnology, Texas Higher Education Coordinating Board bi-annual Advanced Research/Advanced Technology Programs (total of $4.5 million in grants awarded).

**Inaugural Presenter and Co-Organizer,** Mississippi State University College of Veterinary Medicine Extension Service Distance Education Initiative.

**2000: Chair,** Clinical/Research Abstracts, Haematology Session, BSAVA Congress.

**Course Organizer and Presenter,** Demystifying the Diagnostic Approach to Polyuria/Polydipsia, on-line Veterinary Information Network CE course comprised of three live tutorial sessions and six interactive case reports.

**Organizational (Professional/Continuing Education/Scientific), continued:**

**2001: Grant Reviewer,** Agriculture, Aquaculture and Agricultural Biotechnology, Texas Higher Education Coordinating Board bi-annual Advanced Research/Advanced Technology Programs.

**Panel Member,** Veterinary Clinical Skills Assessment Examination Development Panel, National Board Examination Committee for Veterinary Medicine.

**Course Organizer and Presenter,** Selected Problems in Small Animal Hematology, on-line VIN CE course compromised of six live tutorial sessions and six interactive case reports.

**2002:** **Course Organizer and Presenter,** Problems in Internal Medicine, one-week interactive course (utilizing audience response unit technology) for the University of Sydney Post-Graduate Foundation in Veterinary Science.

**Course Co-Organizer and Presenter,** Advanced Small Animal Diagnostic and Therapeutic Techniques, three-day lecture/techniques laboratory course for experienced veterinarians from the Banfield Veterinary Group.

**Reviewer,** Research Grant Applications, American Kennel Club Canine Health Foundation.

**2003: Course Co-Organizer,** Basic Abdominal and Cardiac Ultrasound Shortcourse, two-day lecture/techniques laboratory course for veterinarians, Mississippi State University.

**2004: Invited Speaker,** Role of Benefactors in Supporting University Activities, Mississippi State University Alumni Foundation Legacy of Leadership Celebration Dinner.

**Invited Speaker,** Beneficial Effects of Funding Endowments, Mississippi State University College of Veterinary Medicine Development Council Annual Meeting.

**Course Head Tutor,** How We Investigate Blood Disorders, one day lecture-based continuing education course for the British Small Animal Veterinary Association.

**Course Head Tutor,** Clinical Pathology, two day lecture- and case-based continuing education course for the British Small Animal Veterinary Association.

**2016: External Reviewer,** Graduate Program Review Committee, Department of Small Animal Clinical Sciences, Western College of Veterinary Medicine, University of Saskatchewan.

**2017: Panel Member,** Immunosuppressive Therapy for Immune-Mediated Hemolytic Anemia,American College of Veterinary Internal Medicine Consensus Statement Panel.

**2017 on: Member,** Scientific Review Committee, American Veterinary Medical Foundation/Veterinary Pharmacology Research Foundation Grant Program.

**Reviewer,** Research Grant Applications, American Kennel Club Canine Health Foundation.

**Member,** American College of Veterinary Internal Medicine International Relations Committee.

**1999-2002: Chair,** ACVIM Internal Medicine Residency Training Committee.

**2002-2004:** **Member,** ACVIM Small Animal Internal Medicine Case Report Task Force.

**2003-2004: President-Elect,** Association of Veterinary Hematology and Transfusion Medicine.

**2004-2005:** **President,** Association of Veterinary Hematology and Transfusion Medicine.

**2011-2013: Member,** ACVIM Small Animal Internal Medicine Examination Rating Committee.

**2011-2014: Member,** ANZCVSc Small Animal and Canine Medicine Fellowship Examination Committees.

**Faculty Responsibilities (University of Edinburgh, 1994-1998):**

**Clinical Duties:**

Responsible, with time commitment shared 50/50 with another faculty member, for providing Small Animal Medicine service for Royal (Dick) School of Veterinary Studies. Duties consisted of supervision of team including Medicine Resident (Senior Clinical Scholar), six to eight final year students and (for variable periods) Feline Resident and/or Junior Clinical Scholar, with final responsibility for varied caseload referred from Scotland and England.

**Veterinary Student Teaching (Didactic):**

**1994 -1998:** Integrated Pathology/Medicine Courses, University of Edinburgh:

1. Subject Organizer Urinary System (18 lecture section)
2. Subject Organizer Haemolymphatic System (10 lecture section)

**1996:** Integrated Pathology/Medicine Courses, University of Edinburgh:

1. Acting Course Director Course 2 (79 lecture course)

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**1994:** Small Animal Nutrition, 2nd Year Class **6 lectures**

**1995:** Urinary System, 2nd/3rd Year Class **8 lectures**

Haemolymphatic System, 3rd Year Class **2 lectures**

Small Animal Nutrition, 2nd Year Class **6 lectures**

Introduction to Clinical Methods, 3rd Year Class **6 tutorials**

Small Animal Medicine Cases, 3rd/4th Year Class **3 tutorials**

**1996:** Urinary System, 2nd/3rd Year Class **8 lectures**

Respiratory System, 2nd/3rd Year Class **1 lecture**

Haemolymphatic System, 3rd Year Class **3 lectures**

Small Animal Nutrition, 2nd Year Class **6 lectures**

Medical Oncology, 3rd Year Class **3 lectures**

Clinicopathological Conferences, 3rd Year Class **4 lectures**

Small Animal Medicine Cases, 3rd/4th Year Class **3 tutorials**

Introduction to Clinical Methods, 3rd Year Class **6 tutorials**

**1997:** Urinary System, 2nd/3rd Year Class **8 lectures**

Small Animal Nutrition, 2nd Year Class **4 lectures**

Medical Oncology, 3rd Year Class **3 lectures**

Small Animal Medicine Cases, 3rd/4th Year Class **3 tutorials**

Introduction to Clinical Methods, 3rd Year Class **6 tutorials**

**Veterinary Student Teaching (Clinical):**

**1994-1998:** Joint responsibility for supervision of Small Animal Medicine and Nutrition rotation, a two week full-time non-elective rotation for final year students.

**1996-1998:** Developed Clinical Nutrition rotation, a 3 week elective involving WALTHAM Centre for Pet Nutrition and University of Edinburgh, with final year students and postgraduate students from Edinburgh and University of Glasgow. Rotation is a model for similar rotations offered to UK veterinary schools in subsequent years.

**Postgraduate Teaching (General):**

**1994-1996:** Organizer, regular Resident/Clinical Scholar Selected Topic tutorials.

**1996:** Facilitator, one-day Practical Workshop on Teaching in Clinical Veterinary Medicine for Clinical Scholars and Residents.

**Postgraduate Teaching (Supervision):**

**1994-1996:** Darren Foster, Feline Advisory Bureau Scholar in Feline Medicine.

Co-supervisor for three-year Senior Clinical Scholarship/Residency position designed to prepare candidate for Australian College of Veterinary Scientists Membership/Fellowship in Feline Medicine. Obtained Membership in 1996, and Fellowship in 2000. Currently a specialist in feline medicine and CEO of Dr. Foster, The Cat Specialist, Darlinghurst, New South Wales, Australia.

**1994-1998:** Jo Stonehewer, Resident in Small Animal Medicine.

Co-supervisor for three-year Senior Clinical Scholarship position designed to prepare candidate for RCVS Certificate/Diploma in Small Animal Medicine. Obtained Certificate in 1996, Diploma in 2000. Currently Director, IJS Partners, Veterinary Communication.

**1995-1997:** Tan-Mei Lian, Master of Science by Research (Veterinary Clinical Studies).

Co-supervisor for overseas postgraduate student investigating the potential beneficial effects of feeding a rice-based diet to atopic dogs. Degree completed on schedule.

**1995-1998:** Clare Knottenbelt, CSTF Resident in Small Animal Medicine and

Master of Science by Research student.

Chief supervisor for three-year Senior Clinical Scholarship position designed to prepare candidate for RCVS Certificate/Diploma in Small Animal Medicine. Obtained Certificate in 1997, Diploma in 1999. Degree completed on schedule. Currently a specialist at Hawk and Dove Oncology Referrals, Killearn, Stirlingshire, Scotland.

**1995-1998:** Severine Tasker (nee Hodson), Feline Advisory Bureau Scholar, Feline Medicine.

Chief supervisor for three-year Senior Clinical Scholarship/Residency position designed to prepare candidate for RCVS Certificate/Diploma in Small Animal Medicine, with feline emphasis. Obtained Certificate in 1997, and Diploma in 1999. Subsequently completed a PhD at the University of Bristol. Currently Chief Medical Officer of Linnaeus Group, United Kingdom.

**Service Duties:**

**1994:** Member, University of Edinburgh Clinical Rotation Advisory Committee

**1995 -1998:** Member, University of Edinburgh Veterinary CPD Committee

**1996-1998:** Member, University of Edinburgh Veterinary Equal Opportunities Committee

Member, Hospital for Small Animals Appeal Committee

Co-Organizer, University of Edinburgh Final Year Grand Rounds.

**1997-1998:** Non-Professorial Faculty Representative, University Senatus Academicus

**Faculty Responsibilities (Current, Mississippi State University):**

**Clinical Duties:**

Small Animal Internal Medicine service, a seven-faculty member clinical service group responsible for providing Small Animal Medicine and Oncology services for MSU. On-clinic duties consist of direct or shared supervision of a team typically consisting of two or three faculty members, two or three residents, two or three interns, three technicians and approximately ten to eleven Senior veterinary students, with final responsibility for a varied referral caseload.

**Veterinary Student Teaching (Clinical):**

**1998 on:** Joint responsibility for supervision of Small Animal Internal Medicine rotation,   
a year-round six- to eight- week full-time non-elective rotation for Senior students.

**1999-2009:** Co-organizer of annual two-week elective *Clinical Neurology rotation* for Senior students, based on problem-based learning, article reviews and clinical material.

**1999:** *Small Animal Medicine Procedures Class,* Sophomore Class **1 session (3 hours)**

*Physical Examination Laboratory,* Sophomore Class**2 sessions (2 hours)**

**2001:** Feeding Tube Placement Laboratory, SVECCS Group **1 session (2 hours)**

**Veterinary Student Teaching (Problem-Based Learning), Case Authorship:**

**1998-2001: PBL Case Authorship:** Dobie Dilemma Freshman Class, Block 1

Blue Dog Sophomore Class, Block 6

**PBL Case Co-Authorship:** Waldo Sophomore Class, Block 6

**2003-2004: PBL Case Revision:** Bad Breath Freshman Class, Block 3

**PBL Case Revision:** Bleeding Disorders Freshman Class, Block 3

**Veterinary Student Teaching (Individualised Programs):**

**Directed Individual Study (DIS) Courses**

**1999:** Dewey Carpenter (Senior) *Individual Study in Cardiology* **4 weeks**

April Heinsch (Senior) *Infusion Pump Research* **4 weeks**

**2000:** Bill Herndon (Senior) *Salsbury Research Project* **10 weeks**

Danielle Paglia (Senior)Grant Writing Course **2 weeks**

Kay Conley (Senior) Grant Writing Course **2 weeks**

**Veterinary Student Teaching (Didactic/Problem-Based Learning):**

**1998:** Coagulopathies, Senior Class, Critical Care **6 tutorials**

Fluid Therapy, Senior Class, Critical Care **6 tutorials**

Seizures, Senior Class, Critical Care **1 tutorial**

Nutritional Support, Junior Class, Surgery/Community Practice **3 tutorials**

Clinical Applications of Diagnostic Tests, Sophomore Class **1 lecture/seminar**

**Faculty Resource Person,** Sophomore Class, Block 6 **1 PBL block**

**1999:** Coagulopathies, Senior Class, Critical Care **8 tutorials**

Fluid Therapy, Senior Class, Critical Care **8 tutorials**

Nutritional Support, Junior Class, Surgery/Community Practice **4 tutorials**

Clinical Oncology: Basic Principles, Sophomore Class **1 lecture**

Clinical Applications of Diagnostic Tests, Sophomore Class **1 lecture/seminar**

Grand Rounds: FIP, Lymphosarcoma, Sophomore Class **2 seminars**

**Faculty Resource Person,** Freshman Class, Block 5 **1 PBL block**

**Faculty Resource Person**, Sophomore Class, Block 6 **1 PBL block**

**2000:** Coagulopathies, Senior Class, Critical Care **11 tutorials**

Fluid Therapy, Senior Class, Critical Care **11 tutorials**

Nutritional Support, Junior Class, Surgery/Community Practice **5 tutorials**

Overview of Internship/Postgraduate Studies, Sophomore Class **1 lecture**

Management of Chronic Renal Failure, Sophomore Class **1 lecture**

Clinical Manifestations of Respiratory Disease, Sophomore Class **1 lecture**

Multifocal Neurologic Disease, Clinical Neurology Class **1 lecture**

Grand Rounds: Hyperthyroidism, Laryngeal Paralysis **2 seminars**

**Block Facilitator,** Freshman Class, Block 1 **1 PBL block**

**Faculty Resource Person,** Freshman Class, Block 5 **1 PBL block**

**Faculty Resource Person**, Sophomore Class, Block 6 **1 PBL block**

**2001:** Fluid Therapy, Senior Class, Critical Care **11 tutorials**

Coagulopathies, Senior Class, Critical Care **6 tutorials**

Nutritional Support, Junior Class, Surgery/Community Practice **4 tutorials**

Multifocal CNS Disease, Sophomore Class **1 lecture**

Polyuria/Polydipsia, Freshman Class **1 lecture**

Management of Diabetes Mellitus, Freshman Class **1 lecture**

Management of Chronic Renal Failure, Sophomore Class **1 lecture**

Clinical Manifestations of Respiratory Disease, Sophomore Class **1 lecture**

Overview of Internship/Postgraduate Studies, Sophomore Class **1 lecture**

Diabetes, Toxoplasma, Immune Dz, Anemia Advanced Feline Elective **4 lectures**

Anemia, Hemostasis, Senior Class Board Preparation Group **2 lectures**

Multifocal CNS Disease, Clinical Neurology Rotation **1 lecture/seminar**

Grand Rounds: EOI, Parvovirus, PSS, Jaundice, Cushings **5 seminars**

**Block Facilitator,** Freshman Class, Block 4 **1 PBL block**

**Faculty Resource Person,** Freshman Class, Block 5 **1 PBL block**

**Faculty Resource Person,** Sophomore Class, Block 6 **1 PBL block**

**2002:** Fluid Therapy, Senior Class, Critical Care **6 tutorials**

Coagulopathies, Senior Class, Critical Care **4 tutorials**

Nutritional Support, Junior Class, Surgery/Community Practice **3 tutorials**

Multifocal CNS Disease, Sophomore Class **1 lecture**

Transfusions, Immunosuppressive Tx, Clinical Pharmacology Elective **2 lectures**

Polyuria/Polydipsia, Chronic Renal Failure, Sophomore Class **2 lectures**

Respiratory Dz, Respiratory Physiology/Blood Gases, Sophomore Class **2 lectures**

Diabetes, Toxoplasma, Immune Dz, Anemia Advanced Feline Elective **4 lectures**

**Block Facilitator,** Freshman Class, Block 4 **1 PBL block**

**Faculty Resource Person,** Freshman Class, Block 5 **1 PBL block**

**Faculty Resource Person,** Sophomore Class, Block 6 **1 PBL block**

**2003:** Fluid Therapy, Senior Class, Critical Care **7 tutorials**

Coagulopathies, Senior Class, Critical Care **6 tutorials**

Nutritional Support, Junior Class, Surgery/Community Practice **4 tutorials**

Multifocal CNS Disease, Sophomore Class **1 lecture**

Polyuria/Polydipsia, Sophomore Class **1 lecture**

Overview of Internships/Residencies, Freshman/Sophomore Classes **1 lecture**

Transfusions, Immunosuppressive Tx, Clinical Pharmacology Elective **2 lectures**

Jaundice, Senior Class Board Preparation Group **1 lecture**

Diabetes, Toxoplasma, Immune Dz, Anemia Advanced Feline Elective **4 lectures**

Grand Rounds: PSS, Parvovirus, Hyperthyroidism **3 seminars**

**Block Facilitator,** Freshman Class, Block 4 **1 PBL block**

**2004:** Fluid Therapy, Senior Class, Critical Care **7 tutorials**

Coagulopathies, Senior Class, Critical Care **6 tutorials**

Nutritional Support, Junior Class, Surgery/Community Practice **5 tutorials**

Multifocal CNS Disease, Sophomore Class **1 lecture**

Overview of Hemostasis, Freshman Class **1 lecture**

Polyuria/Polydipsia, Fluid Therapy, Sophomore Class **2 lectures**

Hemostasis, Sophomore Class **1 lecture**

Urinary System, Sophomore Class Small Animal Med & Surg I **8 lectures**

Respiratory System, Sophomore Class Small Animal Med & Surg I **4 lectures**

Transfusions, Immunosuppressive Tx, Clinical Pharmacology Elective **2 lectures**

Diabetes, Transfusion, Toxoplasma, Immune Dz Feline Elective **4 lectures**

Grand Rounds: Distemper, Bleeding Disorders **2 seminar**

**Co-Course Leader**, Small Animal Medicine and Surgery I **5 credit hour course**

**Co-Course Leader,** Small Animal Medicine and Surgery II **5 credit hour course**

**2005:** Fluid Therapy, Senior Class, Critical Care **7 tutorials**

Coagulopathies, Senior Class, Critical Care **7 tutorials**

Nutritional Support, Junior Class, Surgery/Community Practice **3 tutorials**

Urinary System, Sophomore Class Small Animal Med & Surg I **8 lectures**

Gastrointestinal System, Sophomore Class Small Animal Med & Surg I **1 lecture**

Respiratory System, Sophomore Class Small Animal Med & Surg I **4 lectures**

Gastrointestinal System, Sophomore Class Small Animal Med & Surg II **2 lectures**

Hematology, Sophomore Class Small Animal Med & Surg II **2 lectures**

Diabetes, Transfusion, Toxoplasma, Fever, Anemia Feline Elective **5 lectures**

Jaundice and Hypoalbuminemia, NAVLE Board Preparation Course **2 lectures**

Transfusions, Immunosuppressive Tx, Clinical Pharmacology Elective **2 lectures**

**2006:** Fluid Therapy, Senior Class, Critical Care **2 tutorials**

Coagulopathies, Senior Class, Critical Care **2 tutorials**

Nutritional Support, Junior Class, Surgery/Community Practice **2 tutorials**

Urinary System, Sophomore Class Small Animal Med & Surg I **8 lectures**

Gastrointestinal System, Sophomore Class Small Animal Med & Surg I **1 lecture**

Endocrine System, Sophomore Class Small Animal Med & Surg II **2 lectures**

Hematology, Sophomore Class Small Animal Med & Surg II **2 lectures**

Dermatology, Sophomore Class Small Animal Med & Surg II **1 lecture**

Cardiorespiratory System, Sophomore Small Animal Med & Surg I **6 lectures**

Transfusions and Anticoagulant Rodenticides, NAVLE Board Prep **2 lectures**

**2007:** Endocrine System, Sophomore Class Small Animal Med & Surg II **4 lectures**

Dermatology, Sophomore Class Small Animal Med & Surg II **1 lecture**

Urinary System, Sophomore Class Small Animal Med & Surg I **8 lectures**

Gastrointestinal System, Sophomore Class Small Animal Med & Surg I **1 lecture**

Cardiorespiratory System, Sophomore Small Animal Med & Surg I **7 lectures**

Transfusion, Anemia, Hemostasis Cases and Blood Gas/Electrolyte Cases,

Sophomore Class Clinical Pathology Course **4 lectures**

Diabetes, Transfusion, Toxoplasma, Fever, Feline Elective **4 lectures**

Oncology, Clinical Oncology Elective **6 lecture hours**

Transfusions, Immunosuppressive Tx, Clinical Pharmacology Elective **2 lectures**

**2008:** Challenging Internal Medicine Cases, MSU SACVIM **1 lecture**

Dermatology, Sophomore Class Small Animal Med & Surg II **1 lecture**

Gastrointestinal Imaging, Anatomy & Physiology Course **1 lecture**

Transfusions, Immunosuppressive Tx, Clinical Pharmacology Elective **2 lectures**

Urinary System, Sophomore Class Small Animal Med & Surg I **7 lectures**

Gastrointestinal System, Sophomore Class Small Animal Med & Surg I **1 lecture**

Cardiorespiratory System, Sophomore Small Animal Med & Surg I **7 lectures**

Azotemia in a Dog, Sophomore Class Case Presentation **2 lectures**

Transfusion, Sophomore Class Clinical Pathology Course **1 lecture**

Diabetes, Transfusion, Toxoplasma, Fever, Feline Elective **4 lectures**

Oncology, Clinical Oncology Elective **6 lecture hours**

Blood Transfusions in Animals, Undergraduate Freshman Lecture Series **1 lecture**

**2009:** Blood Transfusions in Animals, Undergraduate Freshman Lecture Series **1 lecture**

Hemolytic Anemia Case Discussions, SAVIM Association **1 lecture**

Dermatology, Sophomore Class Small Animal Med & Surg II **1 lecture**

Oncology, Clinical Oncology Elective **6 lecture hours**

Small Animal Medicine, Introduction to Veterinary Careers Course **1 lecture**

Gastrointestinal Imaging, Anatomy & Physiology Course **1 lecture**

Transfusions, Immunosuppressive Tx, Clinical Pharmacology Elective **2 lectures**

Urinary System, Sophomore Class Small Animal Med & Surg I **7 lectures**

Gastrointestinal System, Sophomore Class Small Animal Med & Surg I **1 lecture**

Cardiorespiratory System, Sophomore Small Animal Med & Surg I **8 lectures**

Neurophysiology, Freshman Physiology Course **3 lectures**

Azotemia in a Dog, Sophomore Class Case Presentation **1 lecture**

Diabetes, Transfusion, Toxoplasma, Fever, Feline Elective **4 lectures**

Blood Transfusions in Animals, Undergraduate Freshman Lecture Series **1 lecture**

Dog with Gastrointestinal Bleeding, SAVIM Association **1 lecture**

Approach to the Jaundiced Cat, Student AAFP/VECCS **1 lecture**

**2010:** Blood Transfusions in Animals, Undergraduate Freshman Lecture Series **1 lecture**

Pharynx/Esophagus, Freshman Physiology Course **1 lecture**

Dermatology, Sophomore Class Small Animal Med & Surg II **1 lecture**

Oncology, Clinical Oncology Elective **6 lecture hours**

Small Animal Medicine, Introduction to Veterinary Careers Course **1 lecture**

Gastrointestinal Imaging, Anatomy & Physiology Course **1 lecture**

Transfusions, Immunosuppressive Tx, Clinical Pharmacology Elective **2 lectures**

Neurophysiology, Freshman Physiology Course **4 lecture**

Gastrointestinal System, Advanced Clinical Gastroenterology Course **5 lectures**

Urinary System, Sophomore Class Small Animal Med & Surg I **7 lectures**

Hematology, Sophomore Class Small Animal Med & Surg I **1 lecture**

Gastrointestinal System, Sophomore Class Small Animal Med & Surg I **2 lectures**

Rodenticides/Ethylene Glycol, Sophomore Class Toxicology Course **1 lecture**

Hemolytic Anemia Case Discussions, SAVIM Association **1 lecture**

Diabetes, Transfusion, Toxoplasma, Fever, Feline Elective **4 lectures**

Cardiorespiratory System, Sophomore Small Animal Med & Surg I **9 lectures**

NAVLE Preparation Course, Senior Class **5 lectures**

**Course Leader,** Advanced Clinical Gastroenterology **3 credit hour course**

**2011:** Blood Transfusions in Animals, Undergraduate Freshman Lecture Series **2 lectures**

Specialist Training, 2011 National APVMA Symposium (MSU) **2 lectures**

Dermatology, Sophomore Class Small Animal Med & Surg II **1 lecture**

Diabetes Mellitus, Undergraduate General Biochemistry (BCH 4613) **1 lecture**

Azotemia in a Dog, Freshman Professional Development Case Report **1 lecture**

Internships/Residencies, Freshman Professional Development Class **1 lecture**

Oncology, Clinical Oncology Elective **6 lecture hours**

Small Animal Medicine, Introduction to Veterinary Careers Course **1 lecture**

Gastrointestinal Imaging, Anatomy & Physiology Course **1 lecture**

Urinary System, Sophomore Class Small Animal Med & Surg I **6 lectures**

Oncology, Clinical Oncology Elective **6 lecture hours**

Gastrointestinal System, Sophomore Class Small Animal Med & Surg I **3 lectures**

Artefacts, Senior Class, Small Animal Internal Medicine Rotation **3 tutorials**

Fluid Therapy, Senior Class, Small Animal Internal Medicine Rotation **1 tutorial**

Transfusions, Immunosuppressive Tx, Clinical Pharmacology Elective **2 lectures**

Transfusion, Toxoplasma, Fever, Jaundice, Feline Elective **4 lectures**

Cardiorespiratory System, Sophomore Small Animal Med & Surg I **9 lectures**

Pharynx/Esophagus, Freshman Physiology Course **1 lecture**

NAVLE Preparation Course, Senior Class **2 lectures**

**2012:** Dermatology, Sophomore Class Small Animal Med & Surg II **1 lecture**

Artefacts, Senior Class, Small Animal Internal Medicine Rotation **6 tutorials**

Paraneoplastic Syndromes, Senior Class, Medicine Rotation **5 tutorials**

Specialty Veterinary Training, Undergraduate Careers Class  **1 on-line lecture**

Oncology, Clinical Oncology Elective **6 lecture hours**

Azotemia in a Dog, Freshman Professional Development Case Report **1 lecture**

Diabetes Mellitus, Undergraduate General Biochemistry (BCH 4613) **1 lecture**

Gastrointestinal Imaging, Anatomy & Physiology Course **1 lecture**

Transfusions, Immunosuppressive Tx, Clinical Pharmacology Elective **2 lectures**

Oncology, Clinical Oncology Elective **6 lecture hours**

Urinary System, Sophomore Class Small Animal Med & Surg I **6 lectures**

Gastrointestinal System, Sophomore Class Small Animal Med & Surg I **3 lectures**

Immunology of Fever, Freshman Class Immunology **1 lecture**

Marrow, Hemostasis, DIC, Senior Immunology/Hematology Elective **5 lectures**

Cardiorespiratory System, Sophomore Small Animal Med & Surg I **10 lectures**

Transfusion, Toxoplasma, Fever, Jaundice, Feline Elective **4 lectures**

Blood Transfusions in Animals, Undergraduate Freshman Lecture Series **1 lecture**

Pharynx/Esophagus, Freshman Physiology Course **1 lecture**

Transfusion, Sophomore Small Animal Med & Surg I **1 lecture**

NAVLE Preparation Course, Senior Class **2 lectures**

**2013:** Diabetes Mellitus, Undergraduate General Biochemistry (BCH 4613) **1 lecture**

Dermatology, Sophomore Class Small Animal Med & Surg II **1 lecture**

Azotemia in a Dog, Freshman Professional Development Case Report **1 lecture**

Artefacts, Senior Class, Small Animal Internal Medicine Rotation **7 tutorials**

Paraneoplastic Syndromes, Senior Class, Medicine Rotation **7 tutorials**

Oncology, Clinical Oncology Elective **10 lecture hours**

Gastrointestinal Imaging, Anatomy & Physiology Course **1 lecture**

Internships/Residencies, Freshman Professional Development Class **1 lecture**

Urinary System, Sophomore Class Small Animal Med & Surg I **6 lectures**

Gastrointestinal System, Sophomore Class Small Animal Med & Surg I **3 lectures**

Marrow, Hemostasis, DIC, Senior Immunology/Hematology Elective **6 lectures**

Immunology of Fever, Freshman Class Immunology **1 lecture**

Cardiorespiratory System, Sophomore Small Animal Med & Surg I **10 lectures**

Transfusion, Toxoplasma, Fever, Jaundice, Feline Elective **4 lectures**

Blood Transfusions in Animals, Undergraduate Freshman Lecture Series **1 lecture**

Pharynx/Esophagus, Freshman Physiology Course **1 lecture**

Transfusion, Sophomore Small Animal Med & Surg I **1 lecture**

NAVLE Preparation Course, Senior Class **2 lectures**

**2014:** Artefacts, Senior Class, Small Animal Internal Medicine Rotation **6 tutorials**

Paraneoplastic Syndromes, Senior Class, Medicine Rotation **2 tutorials**

Dermatology, Sophomore Class Small Animal Med & Surg II **1 lecture**

Internships/Residencies, Freshman Professional Development Class **1 lecture**

Azotemia in a Dog, Freshman Professional Development Case Report **1 lecture**

Urinary System, Sophomore Class Small Animal Med & Surg I **6 lectures**

Marrow, Hemostasis, DIC, Senior Immunology/Hematology Elective **6 lectures**

Gastrointestinal System, Sophomore Class Small Animal Med & Surg I **4 lectures**

Immunology of Fever, Freshman Class Immunology **1 lecture**

Cardiorespiratory System, Sophomore Small Animal Med & Surg I **10 lectures**

Transfusion, Toxoplasma, Fever, Jaundice, Feline Elective **4 lectures**

Pharynx/Esophagus, Freshman Physiology Course **1 lecture**

Transfusion, Sophomore Small Animal Med & Surg I **1 lecture**

NAVLE Preparation Course, Senior Class **2 lectures**

Blood Transfusions in Animals, Undergraduate Freshman Lecture Series **1 lecture**

Cancer Cytology, Clinical Oncology Elective **5 lecture hours**

**2015:** Artefacts, Senior Class, Small Animal Internal Medicine Rotation **6 tutorials**

Paraneoplastic Syndromes, Senior Class, Medicine Rotation **6 tutorials**

Internships/Residencies, Freshman Professional Development Class **1 lecture**

Dermatology, Sophomore Class Small Animal Med & Surg II **1 lecture**

Azotemia in a Dog, Freshman Professional Development Case Report **1 lecture**

Cancer Cytology, Clinical Oncology Elective **5 lecture hours**

Careers in Research, Summer Research Experience **Panel discussion**

Urinary System, Sophomore Class Small Animal Med & Surg I **6 lectures**

Blood Transfusions in Animals, Undergraduate Freshman Lecture Series **1 lecture**

Canine IMHA, Evening NAVLE Preparation Lecture Series **1 lecture**

Gastrointestinal System, Sophomore Class Small Animal Med & Surg I **4 lectures**

Immunology of Fever, Freshman Class Immunology **1 lecture**

Cardiorespiratory System, Sophomore Small Animal Med & Surg I **10 lectures**

Transfusion, Toxoplasma, Fever, Jaundice, Feline Elective **4 lectures**

Pharynx/Esophagus, Regurgitation Case, Freshman Physiology Course **2 lectures**

NAVLE Preparation Course, Senior Class **2 lectures**

**2016:** Artefacts, Senior Class, Small Animal Internal Medicine Rotation **8 tutorials**

Paraneoplastic Syndromes, Senior Class, Medicine Rotation **1 tutorial**

Internships/Residencies, Freshman Professional Development Class **1 lecture**

Dermatology, Sophomore Class Small Animal Med & Surg II **1 lecture**

Azotemia in a Dog, Freshman Professional Development Case Report **1 lecture**

Gastrointestinal Imaging, Anatomy & Physiology Course **1 lecture**

Diabetes Mellitus, Undergraduate General Biochemistry (BCH 4613) **1 lecture**

Urinary System, Sophomore Class Small Animal Med & Surg I **5 lectures**

Gastrointestinal System, Sophomore Class Small Animal Med & Surg I **4 lectures**

Immunology of Fever, Freshman Class Immunology **1 lecture**

Marrow, Hemostasis, DIC, Senior Immunology/Hematology Elective **5 lectures**

Cardiorespiratory System, Sophomore Small Animal Med & Surg I **10 lectures**

Transfusion, Toxoplasma, Fever, Jaundice, Feline Elective **4 lectures**

NAVLE Preparation Course, Senior Class **2 lectures**

Pharynx/Esophagus, Freshman Physiology Course **1 lecture**

Immunosuppressive Agents, Sophomore Pharmacology II Course **2 lectures**

Blood Transfusions in Animals, Undergraduate Freshman Lecture Series **1 lecture**

**2017:** Internships/Residencies, Freshman Professional Development Class **1 lecture**

Azotemia in a Dog, Freshman Professional Development Case Report **1 lecture**

Artefacts, Senior Class, Small Animal Internal Medicine Rotation **6 tutorials**

Paraneoplastic Syndromes, Senior Class, Medicine Rotation **3 tutorials**

Dermatology, Sophomore Class Small Animal Med & Surg II **1 lecture**

Gastrointestinal Imaging, Anatomy & Physiology Course **1 lecture**

Urinary System, Sophomore Class Small Animal Med & Surg I **5 lectures**

Gastrointestinal System, Sophomore Class Small Animal Med & Surg I **3 lectures**

Immunosuppressive Agents, Sophomore Pharmacology II Course **2 lectures**

Pharynx/Esophagus, Freshman Physiology Course **1 lecture**

Immunology of Fever, Freshman Class Immunology **1 lecture**

Blood Transfusions in Animals, Undergraduate Freshman Lecture Series **1 lecture**

Transfusion, Toxoplasma, Fever, Jaundice, Feline Elective **4 lectures**

Cardiorespiratory System, Sophomore Small Animal Med & Surg I **11 lectures**

NAVLE Preparation Course, Senior Class **2 lectures**

Transfusion, Sophomore Small Animal Med & Surg I **1 lecture**

**2018:** Internships/Residencies, Freshman Professional Development Class **1 lecture**

Artefacts, Senior Class, Small Animal Internal Medicine Rotation **8 tutorials**

Paraneoplastic Syndromes, Senior Class, Medicine Rotation **4 tutorials**

Dermatology, Sophomore Class Small Animal Med & Surg II **1 lecture**

Azotemia in a Dog, Freshman Professional Development Case Report **1 lecture**

Urinary System, Sophomore Class Small Animal Med & Surg I **4 lectures**

Swallowing Disorders, Gastrointestinal Elective **1 lecture**

Gastrointestinal System, Sophomore Class Small Animal Med & Surg I **3 lectures**

Physical Examination, Sophomore Class Teaching Laboratory **3 laboratory sessions**

Immunosuppressive Agents, Sophomore Pharmacology II Course **2 lectures**

Pharynx/Esophagus, Freshman Physiology Course **1 lecture**

Immunology of Fever, Freshman Class Immunology **1 lecture**

Blood Transfusions in Animals, Undergraduate Freshman Lecture Series **1 lecture**

Cardiorespiratory System, Sophomore Small Animal Med & Surg I **12 lectures**

Transfusion, Toxoplasma, Fever, Jaundice, Feline Elective **4 lectures**

NAVLE Preparation Course, Senior Class **2 lectures**

Transfusion, Sophomore Small Animal Med & Surg I **1 lecture**

**2019:** Artefacts, Senior Class, Small Animal Internal Medicine Rotation **6 tutorials**

Paraneoplastic Syndromes, Senior Class, Medicine Rotation **2 tutorials**

Internships/Residencies, Freshman Professional Development Class **1 lecture**

Azotemia in a Dog, Freshman Professional Development Case Report **1 lecture**

Swallowing Disorders, Gastrointestinal Elective **1 lecture**

Gastrointestinal System, Sophomore Class Small Animal Med & Surg I **3 lectures**

Urinary System, Sophomore Class Small Animal Med & Surg I **4 lectures**

Physical Examination, Sophomore Class Teaching Laboratory **2 laboratory sessions**

Immunology of Fever, Freshman Class Immunology **1 lecture**

Pharynx/Esophagus, Freshman Physiology Course **1 lecture**

Immunosuppressive Agents, Sophomore Pharmacology II Course **2 lectures**

Primary and Secondary Hemostasis, Senior Hematology Elective **5 lectures**

Cardiorespiratory System, Sophomore Small Animal Med & Surg I **12 lectures**

NAVLE Preparation Course, Senior Class **2 lectures**

Transfusion, Sophomore Small Animal Med & Surg I **1 lecture**

Blood Transfusions in Animals, Undergraduate Freshman Lecture Series **1 lecture**

**2020:** Internships/Residencies, Freshman Professional Development Class **1 lecture**

**Technician's Program:**

**2000:** Fluid Therapy, Technician Class **1 seminar**

**2001:** Fluid Therapy, Technician Class **1 seminar**

**2002:** Fluid Therapy, Technician Class **1 seminar**

**2003:** Fluid Therapy, Technician Class **1 seminar**

**2004:** Fluid Therapy, Technician Class **1 seminar**

**2005:** Fluid Therapy, Technician Class **2 seminars**

**Postgraduate Teaching (Supervision, Clinical/Research):**

**1999 on:** Member, MSU-CVM Graduate Faculty

**1999-2015:** Head, Intern/Resident committee

Supervisor, Small Animal Rotating Internships:

**1998-1999:** Kelly Gellasch **1999-2000:** Lori Bradshaw

Jacob Odders Buck Clark

Amy Randall Mike Karg

Jeff Norton

**2000-2001:** Corrie Bates **2001-2002:** Ben Character

George Bowers Amy Janda

Sloan Dupree Michael Nawrocki

Kim Hammer Bridget Willeford

**2002-2003:** Caroline Betbeze **2003-2004:** Leonardo Baez

Justin Payne Michael Higginbotham

Erin Portillo Patty Lathan

David Spranklin Heather Loveland

Kari Lunsford

**2004-2005:** Sandra Axiak **2005-2006:** Jennifer Cyborski

Anne Corrigan Brian Daubs

Jennifer Demko Michelle Herron

William Lee Tekla Lee

Will Norris Eric Miller

**2006-2007:** Todd Archer **2007-2008:** Abbigail Granger

Richard Burgess Gavin Olsen

Heather Markway Trent Stephens

Cory Romans Jeff Steurer

John Thomason Jim Whitehead

**2008-2009:** Christina Choate **2009-2010:** Kirsten Begin

Jacob Shivley Sakthila Jeyakumar

Brandon Hughes Chelsea Kunst

Christine Iacovetta Cassie Lux

Ryan Taggart Tammy Owens

**2010-2011:** Ashley Detwiler **2011-2012** Anne Beyer

Alicia Dudley Andrea Dedeaux

Philip Eddey Claire Fellman

Krista Gazzola Paul Vaughn

William Kimberlin Amanda Wagoner

**2012-2013:** Rachel Blake **2013-2014:** Katie Cooley-Locke

Eileen Seage David Hutcheson

Andy Law Alison Khoo

Talisha Moore Saya Press

Katrina Stewart Jacqueline Scott

**Postgraduate Teaching (Supervision, Clinical/Research, Continued):**

Co-Supervisor, Small Animal Rotating Internships:

**2014-2015:** Kathy Gerken

Sam Chiu

Lan-Hsin Kuo

Michelle Foote

Chi-Ya Chen

**Nominated Mentor, Intern Program:** Kim Hammer (2000-2001) Erin Portillo (2002-2003)

Amy Janda (2001-2002) Kari Lunsford (2003-2004)

Sandra Axiak (2004-2005) Jennifer Cyborski (2005-2006)

Michelle Herron (2005-2006) Tekla Lee (2005-2006)

Todd Archer (2006-2007) Kathy Gerken (2014-2015)

Lachlan McQueen-Miscamble (20015-2016)

**Residents/Graduate Students:**

**1998-2001:** Matthew Krecic, Resident in Small Animal Medicine & Master of Science student.

Chair of MSc committee and co-supervisor for three-year Residency. Attained ACVIM Diploma in Internal Medicine in 2001. Degree completed on schedule. Currently Veterinary Specialist at Zoetis.

**2000-2002:** Mark Stickney, Resident in Companion Animal Practice

Chief supervisor for two-year Residency preparing candidate for ABVP Diploma. Residency completed on schedule. Currently on faculty as Clinical Associate Professor and Director of General Surgery Services at the Texas A&M College of Veterinary Medicine and Biomedical Sciences.

**2000-2003:** Damon Rodriguez, Resident in Small Animal Medicine.

Co-supervisor for three-year Residency. Attained ACVIM Diploma in Internal Medicine in 2003. Currently in specialty practice at Lancaster Veterinary Specialties in Pennsylvania.

**2001-2004:** Robert Vasilopulos, Resident in Small Animal Medicine & Master of Science student.

Co-chair of MSc committee and chief supervisor three-year Residency. Attained ACVIM Diploma in Internal Medicine in 2004. Degree completed on schedule. Currently in specialty practice at Premier Veterinary Group in Chicago, Illinois.

**2003-2006:** Andrea Balch, Resident in Small Animal Medicine & Master of Science student.

Co-chair of MSc committee and chief supervisor three-year Residency. Winner of AAVC 2006 National Resident of the Year award. Attained ACVIM Diploma in Internal Medicine in 2006. Degree completed on schedule. Currently a small animal internal medicine consultant for IDEXX laboratories.

**2003-2007:** Lisa Murray, Resident in Veterinary Emergency/Critical Care

Chief supervisor of Residency Committee for four-year Alternate-Track Residency Program preparing candidate for ACVECC Diploma. Currently in practice in Illinois.

**Residents/Graduate Students (Continued):**

**2004-2012:** Kari Lunsford, Resident in Small Animal Medicine & Master of Science student.

Chair of Master of Science graduate committee and chief supervisor for three-year Residency. Attained ACVIM Diploma in Internal Medicine in 2008. Winner of National Resident Research Award in 2005 for best research presentation at ACVIM Forum. Currently in specialty practice at Red Bank Veterinary Hospital, Mount Laurel, New Jersey.

**2004-2007:** Pamela Martin, Resident in Small Animal Medicine & Master of Science student.

Co-chair of Master of Science graduate committee and chief supervisor for three-year Residency preparing candidate for ACVIM Diploma. Currently Assistant Professor in Small Animal Internal Medicine at Tuskegee University School of Veterinary Medicine.

**2006-2009:** Kirstin Johnson, Resident in Small Animal Medicine

Chief supervisor for three-year Residency. Attained ACVIM Diploma in Internal Medicine in 2011. Currently in specialty practice at Angell Animal Medical Center in Boston.

**2007-2012:** Todd Archer, Resident in Small Animal Medicine & Master of Science student.

Co-chair of Master of Science graduate committee and chief supervisor for three-year Residency. Attained ACVIM Diploma in Internal Medicine in 2011. Degree completed in 2012. Currently Associate Professor, Ward Chair and Chief of Small Animal Internal Medicine service at MSU-CVM.

**2007-2012:** John Thomason, Medicine/Oncology Specialty Intern and then Resident in Small Animal Medicine, & Master of Science student.

Co-chair of Master of Science graduate committee and co-supervisor for three-year Residency. Attained ACVIM Diploma in Internal Medicine in 2011. Degree completed in 2012. Currently Associate Professor in Small Animal Internal Medicine at MSU-CVM.

**2008-2010:** Sarah Lefebvre, Resident in Community Veterinary Services

Member of Residency committee preparing candidate for ABVP Diploma. Currently Assistant Professor and Department Chair in Animal Science in the Veterinary Technology Program at University of Massachusetts, Massachusetts.

**2008-2010:** Katie Mullins, Resident in Small Animal Surgery & Master of Science student.

Member of Master of Science graduate committee. Currently in specialty practice with Acadiana Veterinary Surgery, Lafayette, Louisiana.

**2008-2012:** Christine Bryan, Medicine/Oncology Specialty Intern and then Resident in Small Animal Medicine, & Master of Science student.

Co-chair of Master of Science graduate committee and co-supervisor for three-year Residency preparing candidate for ACVIM Diploma. Currently Associate Clinical Professor in Community Veterinary Services at MSU-CVM.

**Residents/Graduate Students (Continued):**

**2009-2013:** Kriston Garrison, DVM/MSc student.

Co-chair of combined DVM/MSc graduate committee. MSc degree completed in 2013.

**2010-2016:** Claire Fellman, DVM/PhD student and dual Resident in Small Animal Medicine and Veterinary Clinical Pharmacology.

Co-chair of DVM/PhD/Residency graduate committee. Completed Medicine residency and attained ACVIM Diploma in Internal Medicine in 2015, completed Pharmacology residency and PhD, and attained ACVCP Diploma, in 2016. Currently Assistant Professor in Small Animal Internal Medicine and Clinical Pharmacology at Cummings School of Veterinary Medicine at Tufts University.

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**2010-2013:** Jennifer Gambino, Resident in Diagnostic Imaging

Member of Residency committee. Currently a telemedicine radiology consultant for IDEXX laboratories.

**2010-2017:** Sandra Curotto-Bulla, PhD student

Member of PhD committee. PhD degree completed in 2017.

**2010-2013:** Jill Manion, Resident in Small Animal Medicine & Master of Science student.

Member of Master of Science graduate committee and co-supervisor for three-year Residency preparing candidate for ACVIM Diploma. MSc degree completed in 2015. Currently in practice at North Houston Veterinary Specialists in Texas.

**2011-2017:** Shauna Trichler, DVM/PhD student.

Co-chair of combined DVM/PhD graduate committee. Graduated DVM and PhD in 2017.

**2011-2017:** Caitlin Riggs, DVM/PhD student.

Co-chair of combined DVM/PhD graduate committee. Graduated DVM and PhD in 2017.

**2011-2014:** Jillian Haines, Resident in Small Animal Medicine & Master of Science student.

Co-supervisor for three-year Residency preparing candidate for ACVIM Diploma. Degree completed in 2014, and attained ACVIM Diploma in Internal Medicine in 2015. Currently Assistant Professor in Small Animal Internal Medicine at Washington State University.

**2011-2014:** Jennifer Miller, Resident in Diagnostic Imaging & Master of Science student.

Member of Master of Science graduate committee. Degree completed in 2014. Currently in specialty practice in Memphis, Tennessee.

**Residents/Graduate Students (Continued):**

**2012-2016:** Alyssa Sullivant, Medicine/Oncology Specialty Intern and then Resident in Small Animal Medicine, & Master of Science student.

Co-chair of Master of Science graduate committee, and member of Residency committee. Winner of Blackwell King Small Animal Internal Medicine Resident of the Year, 2016. Degree completed, and attained ACVIM Diploma in Internal Medicine, in 2016. Currently Assistant Professor in Small Animal Internal Medicine at Mississippi State University.

**2014-2017:** Natalie McLewee, Resident in Small Animal Medicine, & Master of Science student.

Member of Master of Science graduate and Residency committees. Degree completed, and attained ACVIM Diploma in Internal Medicine, in 2017. Currently in specialty practice in Baltimore, MD.

**2014-2018:** Samantha Muro, Medicine/Oncology Specialty Intern and then Resident in Small Animal Medicine, & Master of Science student.

Member of residency and Master of Science graduate committees. Degree completed, and attained ACVIM Diploma in Internal Medicine, in 2018. Currently in specialty practice in Dallas, TX.

**2015-2021:** Charlee Mulligan, DVM/PhD student.

Co-chair of combined DVM/PhD graduate committee.

**2016-2019:** Katie Cooley-Lock, Resident in Small Animal Medicine.

Member of Residency committee. Currently in specialty practice in South Carolina.

**2016-2020:** Harry Cridge, Small Animl Rotating Intern and then Resident in Small Animal Medicine, & Master of Science student.

Member of residency and Master of Science graduate committees.

**2018-2021:** Ashley Coll, Resident in Small Animal Medicine, & Master of Science student.

Chair of residency and Master of Science graduate committees.

**2018-2021:** Brittany Moore-Henderson, American Board of Veterinary Practitioners Resident, & Master of Science student.

Member of residency and Master of Science graduate committees.

**2018-2020:** Julianna Frum, American Board of Veterinary Practitioners Resident, & Master of Science student.

Member of Master of Science graduate committee.

**2018-2021:** Pamela Galati, Resident in Small Animal Medicine, & Master of Science student.

Member of residency and Master of Science graduate committees.

**Residents/Graduate Students (Continued):**

**2019-2021:** Henrique Lupiano, Master of Science student.

Co-chair of Master of Science graduate committee.

**Postgraduate Teaching (General):**

**1998:** Fluid Therapy, Intern/Resident Seminars **1 tutorial**

Enteral Nutrition, Intern/Resident Seminars **1 tutorial**

**1999:** Inflammation, CVM Advanced Immunology Graduate Course **1 lecture/seminar**

Fluid Therapy, Intern/Resident Seminars **1 tutorial**

**2000:** Inflammation, CVM Advanced Immunology Graduate Course **1 lecture/seminar**

Bleeding Disorders, Intern/Resident Seminars **1 tutorial**

**2001:** Fluid Therapy, Intern/Resident Seminars **2 tutorials**

Bleeding Disorders, Intern/Resident Seminars **1 tutorial**

Inflammation, CVM Advanced Immunology Graduate Course **1 lecture/seminar**

Immune-Mediated Blood Disorders, Advanced Immunology Course **1 lecture/seminar**

Multifocal CNS Disease, Advanced Clinical Neurology Course **1 lecture/seminar**

Advanced Clinical Neurology, originator and co-supervisor,   
3 month clinical course for Medicine and Surgery Residents. **3 month course**

**2002:** Inflammation, CVM Advanced Immunology Graduate Course **1 lecture/seminar**

Immune-Mediated Blood Disorders, Advanced Immunology Course **1 lecture/seminar**

**2004:** Inflammation, CVM Advanced Immunology Graduate Course **1 lecture/seminar**

Immune-Mediated Blood Disorders, Advanced Immunology Course **1 lecture/seminar**

**2006:** Inflammation, CVM Advanced Immunology Graduate Course **1 lecture/seminar**

Immune-Mediated Blood Disorders, Advanced Immunology Course **1 lecture/seminar**

**2011:** Clinical Teaching. MSU Center for Teaching and Learning. **1 lecture/seminar**

**2012:** Overview of Hemostasis. Small Animal Medicine Graduate Course. **1 seminar**

Hematology Review. Small Animal Medicine Graduate Course. **1 seminar**

**2015:** Effective Oral Research Presentations, Graduate Seminar Series **1 shared seminar**

**2016:** Effective Oral Research Presentations, Graduate Seminar Series **2 shared seminars**

**2017:** Writing Successful Grants, Scientific Writing Course **2 panel discussions**

**2018:** Writing Successful Grants, Scientific Writing Course **1 panel discussion**

**2019:** Fluid Therapy, Intern Seminars **1 lecture**

Effective Oral Research Presentations, Graduate Seminar Series **1 seminar**

**2015:** Co-Course Leader, CVM 8011 Graduate Seminar Series, Fall Semester

**2016:** Course Leader, CVM 8011 Graduate Seminar Series, Spring Semester

**2019:** Co-Course Leader, CVM 8011 Graduate Seminar Series, Spring Semester

Course Leader, CVM 8011 Graduate Seminar Series, Fall Semester

**Other Presentations:**

**1998:** Feline Toxoplasmosis, American Association of Feline Practitioners, Student Branch, MSU.

**1999:** Diabetes in the Cat,American Association of Feline Practitioners, Student Branch, MSU.

**2001:** Practical Blood Transfusions, Waltham Student Evening Seminar Series, MSU.

**2002:** Feline Diabetes Mellitus, American Association of Feline Practitioners, Student Branch, MSU.

Feline Toxoplasmosis, American Association of Feline Practitioners, Student Branch, MSU.

**2004:** Transfusion Medicine, MSU Pre-Vet Club.

**2015:** Transfusion Reaction Caused by Blood Type Incompatibility in a Cat, MSU-CVM Morbidity and Mortality Rounds.

**2016:** Small Animal Internal Medicine as a Specialty, MSU Pre-Vet Club.

**Advisory:**

**Advisor, Clinicopathologic Conferences (Seniors):**

Scott Jennings (1998) Polyuria/Polydipsia in the Dog

Theresa Rotenberry (1999) Hyperadrenocorticism in the Dog

Amanda Herren (1999) Canine Immune-Mediated Thrombocytopenia

April Heinsch (1999) Osmotic Fragility Testing in the Dog

Jill Sullivan (2000) Heat Stroke

Bill Herndon (2000) Platelet Counting in the Dog

Danielle Paglia (2000) Canine Appendicular Osteosarcoma

Marnie Horton (2001) Canine Immune-Mediated Hemolytic Anemia

Brian Hicks (2002) Histoplasmosis in the Canine Patient

Raina Rushing (2002) Immune-Mediated Thrombocytopenia in a Dog

Melissa McLendon (2002) Anticoagulant Rodenticide Poisoning

Michael Epperson (2002) Calcium Oxalate Urolithiasis

Cory Fisher (2002) Congenital Extrahepatic Portosystemic Shunts

Jacob Church (2003) Nephroliths in the Dog

Rob Presley (2003) Lymphoid Leukemia in the Dog

Sarah Adolphson Nelms (2004) Approach to Azotemia in the Dog

Nate Moseley (2004) Feline Hyperthyroidism

Todd Archer (2005) Pituitary Dependent Hyperadrenocorticism

Jenny Ladnier (2006) Canine Pythiosis

Allison Gardner (2006) Erythemic Myelosis in a Cat

Stephenie Morgan (2006) Feline Hepatic Lipidosis

Marc Seitz (2006) Idiosyncratic Drug Reactions

Stephanie Gandy (2007) Calcitriol in the Cat

Krista Nettles (2008) NSAID-Associated Anemia in a Dog

Andrew Baker (2008) Coccidiomycosis in the Dog

Harry Greenbaum (2008) Canine Peripheral Nerve Sheath Tumor

Felicia Burdick (2008) Canine Hydrocephalus

Justin Mathis (2008) Canine Diabetes Mellitus

Kaysey Burns (2009) Canine Diabetes Insipidus

Jennifer Ghere (2009) Canine American Hepatozoonosis

Sabrina Hoffman (2009) Canine Pericardial Effusion

LeAnne Hollis (2009) Feline Erythemic Myelosis

Megan Caulfield (2010) Cushing’s Disease

Courtney Bruner (2010) Canine Vehicular Trauma

Jaimee Floyd (2010) Feline Hypertrophic Cardiomyopathy

Mark Crawford (2010) Canine Evan’s Syndrome

Kristin Nichols (2010) Ureteral Stenosis

Jason Gray (2010) Transitional Cell Carcinoma in a Dog

Maralyn Strait (2011) Canine American Hepatozoonosis

Kylee Fent (2011) Canine Portosystemic Shunts

Monica Martin (2011) Idiopathic Pulmonary Fibrosis

Ericka Davis (2012) Nasal Polyp in a Dog

Katie Hill (2012) Histiocytic Sarcoma in a Dog

Jessica Platz (2012) Dilated Cardiomyopathy in a Cat

Dana Chapman (2012) Feline Triaditis

Amy Almo (2012) Erythema Multiforme

Kathryn Lowe (2013) Diabetic Ketoacidosis

Susan Rodgers (2013) Thromboembolism in Dogs

**Advisory (Continued):**

**Advisor, Clinicopathologic Conferences (Continued):**

Katy Nabors (2013) Immune-Mediated Polyarthritis in a Dog

David Gillen (2014) Permethrin Toxicosis in a Cat

Courtney Brown (2014) Congenital Megaesophagus in a Dog

Becca Garrison (2015) Reflex Dyssynergia in a Dog

Benjamin Lee (2015) Hepatocutaneous Syndrome

Theresa Smith (2015) Canine Hypoadrenocorticism

Tara Mullins (2016) Anticoagulant Rodenticide Toxicity in a Dog

Bayard Grillis (2016) Feline Cytauxzoonosis

Jackie King (2016) Xenotransfusion in a Cat

Keri Kennedy (2016) Canine Cryptococcosis

Haley Hill (2016) Canine Caval Syndrome

Alanna Pritts (2016) Congenital Megaesophagus in a Dog

Jennifer Merkle (2016) Chordae Tendineae Rupture in a Dog

Carley Tucker (2017) Pure Red Cell Aplasia in a Dog

Sherry Blackmon (2017) Laryngeal Malacia in a Dog

Brittany Curtis (2017) Ehrlichiosis in a Dog

Nick Kohn (2018) Canine Nasal Aspergillosis

Will Alexander (2019) Canine Gastric Carcinoma

Josh Bennett (2019) Feline Infectious Peritonitis

Blake Crawford (2020) Acquired Fanconi’s Syndrome in a Dog

Maj Morgan (2020) Ivermectin Toxicity in a Dog

**Mentor, Phase 1:** Shannon Foster, 2002 **Advisor, Phase 2:** Dewey Carpenter, 2000

Heather Burdick, 2003 Bill Herndon, 2000

Teresa Sessions, 2004 Danielle Paglia, 2001

Michelle Herron, 2005 Kay Conley, 2001

Rossi Hepinstall, 2006 Stephen Rea, 2005

Jenny Ladnier, 2006 Karen Hilling, 2005

Lloyd Reitz, 2009 Van Hollis, 2006

Ashley Hill, 2009 Todd Archer, 2006

Megan Caulfield, 2010 Stephenie Morgan, 2007

Christie Moore, 2010 Brian Maran, 2008

Keith Youngblood, 2010 Dorothy Jackson, 2009

Paul Taylor, 2010 Stacey Brown, 2010

Mekayla Mekara, 2022 Heather Troutman, 2013

Marguerite O'Brien, 2022 Tim Hiebert, 2016

McKenzie Pinto Towe 2024

Mary Katherine Godley 2024

**Advisory (Continued):**

**Research Supervisor:**

**1999:** Bill Herndon **Salsbury Research Program**

Platelet Counting in the Dog

April Heinsch **Directed Individual Study**

Blood Products via Infusion Pump Study

Caroline Betbeze **Summer Research Program**

Delayed Dermal Hypersensitivity Testing in the Dog

**2000:** Tomas Pansky **Summer Research Program**

Measurement of vWf in Dogs with Hemangiosarcoma

Lorrie Rhodus **Summer Research Program**

Development of an ELISA for Cuterebra in Cats

**2002:** Amy Walsh **Summer Research Project**

Thiopurine Methyltransferase Activity in the Dog

**2004:** Becky Stanton **Summer Research Project**

Phototreatment of Canine Blood Products

**2005:** Krista Nettles **Summer Research Project**

Phototreatment of Canine Blood Products

**2006:** Risa Sabbatini **Summer Research Project**

Magnetic RBC Labelling

**2008:** Claire Fellman **Summer Research Project**

Flow Cytometry of T-Cell Markers in Dogs on Cyclosporine

First Prize, Student Research Abstract, MSU-CVM Research Day

Courtney Bruner **Summer Research Project**

Platelet Function in Dogs on Cyclosporine

Second Prize, Student Research Abstract, MSU-CVM Research Day

**2009:** Claire Fellman **Summer Research Project**

Flow Cytometry of T-Cell Markers in Dogs on Cyclosporine

Morris Animal Foundation Student Grant Award Winner

MSU Research Award, Graduate Student category

Jesse Grady **Summer Research Project**

Platelet Function in Dogs on Cyclosporine

**2010:** Becca Flores **Summer Research Project**

Efflux Pump Function in Dogs

**2011:** Jenica Haraschak **Summer Research Project**

Pharmacokinetics of Dantrolene in Dogs

**2012:** Joyce Follows **Summer Research Project**

Cytokine Expression in Cyclosporine-Exposed T-Cells

**2016:** Ben Lee **Senior Student Research Initiative**

Effects of Mycophenolate Mofetil on T Cell Function

Kayla Alexander **Summer Research Project**

Effects of Mycophenolate Mofetil on Lymphocyte Apoptosis

**Service Duties (Past):**

**1998:** Chair, Clinical Grading Committee

**1999:** Interim Chief (April-June), Small Animal Emergency/Critical Care Service

**2000:**  Acting Service Chief (January-February), Small Animal Medicine Service

Member, Interview Panel, Student Admissions to Veterinary Course

Member, Small Animal Internal Medicine Faculty Position Search Committee

Member, Dermatology Faculty Position Search Committee

Member, Small Animal Surgery Faculty Position Search Committee

**2001:**  Chair, Small Animal Medicine Faculty Position Search Committee

Member, MSU-CVM Dean's Awards Selection Committee

**2002:** Member, Community Practice Faculty Position Search Committee

**2003:** Member, Anesthesia Faculty Position Search Committee

Member, Pathology Faculty Position Search Committee

**2004:** Member, Graduate Faculty Ad Hoc By-Laws Committee

**2005:** Member, MSU-CVM Dean Search Committee

Member, Radiology Faculty Position Search Committee

**2006:** Member, Small Animal Internal Medicine Search Committee

Member, Primary Care Faculty Position Search Committee

**2007:** Member, Radiology Faculty Position Search Committee

Member, Clinical Pathology Faculty Position Search Committee

**2008:** Member, MSU-CVM Associate Dean of Research and Graduate Studies Search Committee

**2009:** Member, MSU-CVM Director of Outreach and External Affairs Search Committee

**2010:** Member, Referral Coordinator Position Search Committee

**2010:** Member, International Student Affairs Advisory Committee

**2011:** Member, MSU-CVM Associate Dean for Research and Graduate Studies Search Committee.

Member, Morbidity and Mortality Rounds Steering Committee

**2014:** Chair, Emergency/Critical Care Faculty Position Search Committee

Assistant Department Head, Department of Clinical Sciences

Chair, MSU-CVM House Officer Program Task Force

**2015:** Member, ICU Renovations Task Force

**2017:** Interviewer, MSU Presidential/Provost Scholarship Selection Committee

**2018:** Member, MSU Shakouls Honors College Selection Committee

**2019:** Interviewer, MSU Presidential/Provost Scholarship Selection Committee

Chair, Department of Basic Sciences Department Head Search Committee

**1998-2002:** Examiner, AVMA Educational Committee for Foreign Veterinary Graduates

Member, Interview Committee, ECFVG Candidates (One Year Program)

**1998-2004:** Member, Academic Program Faculty Oral Examiners Group

**2003-2006:** Member, MSU-CVM Admissions Committee

**2002-2010:** Member, ICU Committee

**2007-2009:** Member, College Promotion and Tenure Committee

Member, MSU-CVM Research Day Planning Committee

**2009-2011:** Chair, College Promotion and Tenure Committee

**2010-2013:** Member, MSU-CVM Admissions Committee

Member, MSU Academic Review Board

**1998-2014:** Chair, Intern and Resident Training Committee

**2001-2014:** Service Chief, Small Animal Medicine Group

**2012-2014:** Chair, Oncology Faculty Position Search Committee

Member, Departmental Promotion and Tenure Committee

**2013-2016:** Member, Outstanding Graduate Student Mentor Award Selection Committee

**2014-2016:** Member, Mississippi State University Faculty Grievance Committee

**2017-2018:** Member, MSU Graduate Research Assistant of the Year Selection Committee

**Service Duties (Past, Continued):**

**2007-2018:** Graduate Coordinator, Department of Clinical Sciences

Member, Graduate Program Advisory Committee

**2008-2018:** Member, Departmental Graduate Committee

**Service Duties (Ongoing):**

**2008 on:** Member, DVM/PhD Program Steering Committee

**2010 on:** Member, Board of Directors, MSU-CVM Clinical Outreach, Inc.

**2018 on:** Member, MSU Academic Department Heads Executive Committee

**2019 on:** Member, MSU Special Task Force for Evaluation of Teaching

Member, MSU Faculty Performance Evaluation Task Force

**Faculty Mentorship:**

Dr. Kari Lunsford, Assistant Professor of Medicine, 2007-2013 (Mentorship Committee Chair)

Attained tenure and promotion to Associate Professor 2013

Dr. Patty Lathan, Assistant Professor of Medicine, 2007-2014 (Mentorship Committee Chair)

Attained tenure and promotion to Associate Professor 2014

Dr. Erin Brinkman, Assistant Professor of Radiology, 2007-2012 (Mentorship Committee Chair)

Attained promotion to Associate Clinical Professor 2016

Dr. Jacquelin Boggs, Clinical Instructor of Equine Medicine, 2009-2011

Dr. Andrew Claude, Assistant Professor of Anesthesia, 2009-2015

Attained tenure and promotion to Associate Professor 2016

Dr. Todd Archer, Assistant Professor of Medicine, 2010-2015 (Mentorship Committee Chair)

Attained tenure and promotion to Associate Professor 2016

**Other Teaching:**

**2000: Problems in Small Animal Internal Medicine.**

Course organizer and tutor/lecturer, two-week Special Topics elective course for Final Year students, Murdoch University Veterinary School, Perth, Western Australia.

**2016: Pharmacodynamic Monitoring**

Videoconference presentation to Iowa State University Medicine group.

**2016: Immune-Mediated Disorders and Vaccines**

Videoconference presentation to Merck Animal Health group.

**Consultancy:**

**1998: Cook Veterinary Products**

Expert analysis on feasibility of new veterinary hematology analyzer.

**2003: Bayer Internal Medicine and Dermatology Advisory Board**

Specialist advisory board providing expert advice and guidance for new product development.

**2000-2006: Veterinary Information Network (VIN)**

Consultant, Internal Medicine and Hematology/Hemostasis, for VIN, the leading US on-line veterinary consultancy service (over 10,000 veterinarians subscribed).

**2013-2014: Animal Emergency and Referral Center, Flowood, MS**

Visiting consultant and specialist, MSU-affiliated specialty referral clinic.

**2015-2016: Bayer**

Member consultant panel for development of new renal/hematology medications for animal use.

**2018: Animal Emergency and Referral Center, Flowood, MS**

Visiting consultant and specialist, MSU-affiliated specialty referral clinic.

**Publications:**

**Theses:**

**Author:**

Mackin, A.J. (1988). **Canine Epilepsy: A Retrospective Study of Canine Seizure Disorders with Particular Reference to Epilepsy.** M.V.S. Thesis, University of Melbourne.

Mackin, A.J. (1993). **The Effects of Vincristine and Prednisone on Normal Canine Platelet Number and Function.** D.V.Sc. Thesis, University of Guelph.

**Advisor:**

Tan Mei Lian (1997). **Allergen-Specific IgE and IgG1(d) Antibodies in Atopic and Normal Dogs.** Masters. Graduate Committee Member.

Claire Knottenbelt (1998). **Determination of the Prevalence of Feline Blood Groups and Naturally-Occurring Antibody Titres Against Feline Blood Group Antigens in the UK.** Masters. Graduate Committee Chair.

Matthew Krecic (2001). **Gastrointestinal Permeability and Mucosa Function Testing in Health Cats.** Masters. Graduate Committee Chair.

Robert Vasilopulos (2004). **Feline Giardiasis: Prevalence and Genotypic Analysis of 250 Cats from Northeast Mississippi and Northwest Alabama.** Masters. Graduate Committee Chair.

Andrea Balch (2006). **Canine Red Blood Cell Survival Following Treatment with the Novel Phototreatment Agent Thiopyrylium.** Masters. Graduate Committee Chair.

Kathleen Mullins (2010). **Effects of Aspirin, Meloxicam, Deracoxib, and Carprofen on Platelet Function in Dogs.** Masters. Graduate Committee Member.

John Thomason (2012). **The Effects of Aspirin and Cyclosporine on Canine Platelet Function and Cyclooxygenase Expression.** Masters. Graduate Committee Chair.

Todd Archer (2012). **Effects of Different Oral Doses of Cyclosporine on T-Lymphocyte Biomarkers of Immunosuppression in Normal Dogs.** Masters. Graduate Committee Chair.

Jill Manion (2013). **Anticoagulant Activity of Inhaled Heparin in the Dog.** Masters. Graduate Committee Chair.

Kriston Weaver (2013). **Assessment of Canine Immunity Using Computational and Flow Cytometric Approaches.** Masters. Graduate Committee Chair.

Jennifer Miller (2014). **Cholangiography Using 64-Multi-Detector Row Computed Tomography in the Normal Dog.** Masters. Graduate Committee Member.

Jillian Haines (2014). **In Vitro and In Vivo Assessment of Platelet Function in Healthy Dogs During Low-Dose Aspirin Therapy.** Masters. Graduate Committee Member.

**Theses (Continued):**

Claire Fellman (2016). **Assessment of the Pharmacodynamic Effects of Cyclosporine in Dogs.** PhD. Graduate Committee Chair.

Alyssa Sullivant (2016). **Identification of Histamine Receptors in the Canine Gastrointestinal Tract.** Masters. Graduate Committee Chair.

Sandra Bulla (2016). **The Relationship Between Canine Platelets and Cancer Cells.** PhD. Graduate Committee Member.

Natalie Mclewee (2017). **Effects of Aspirin Dose Escalation on Platelet Function and Urinary Thromboxane and Prostacyclin Levels in Normal Dogs.** Masters. Graduate Committee Member.

Shauna Fuhrmann (2017). **Platelet-Cancer Cell Interactions: Insights from the Canine Model**. PhD. Graduate Committee Chair.

Caitlin Riggs (2017). **Development of a Pharmacodynamic Assay to Assess the Effect of Cyclosporine in the Canine Patient.** PhD. Graduate Committee Chair.

Samantha Muro (2017). **Effects of Leukoreduction and Storage on Erythrocyte Phosphatidylserine Expression and Eicosanoid Concentrations in Units of Canine Packed Red Blood Cells.** Masters. Graduate Committee Member.

**Books:**

Day, M.J., Mackin, A.J., and Littlewood, J.D. (2000). **BSAVA Manual of Canine and Feline Haematology and Transfusion Medicine.** British Small Animal Veterinary Association, Quedgeley, Gloucester. Also translated into Italian.

**Book Chapters:**

Allen, D.G., and Mackin, A. (1995). **Cor Pulmonale.** In Miller, M.S., and Tilley, L.P. (eds). Manual of Canine and Feline Cardiology (2nd Ed). Saunders, Philadelphia, pp 211-224.

Mackin, A.J. (1998). **Bleeding Disorders.** In Gorman, N.T. (ed). Canine Medicine and Therapeutics (4th Ed). Blackwell Science, London, pp 281-313.

Day, M.J., and Mackin, A.J. (1999). **Immune-Mediated Haematological Disease.**In Day, M.J. (ed). Clinical Immunology of the Dog and Cat. Manson, London, pp 69-87.

Day, M.J., and Mackin, A.J. (1999). **Immune-Mediated Renal and Reproductive Disease.**In Day, M.J. (ed). Clinical Immunology of the Dog and Cat. Manson, London, pp 171-180.

Mackin, A.J. (2000). **Immune-Mediated Haemolytic Anaemia.** In Day, M.J, Mackin, A.J., and   
Littlewood, J.D. (eds). BSAVA Manual of Canine and Feline Haematology and Transfusion Medicine.   
British Small Animal Veterinary Association, Quedgeley, Gloucester, pp 67-77. Also translated into Italian.

Mackin, A.J. (2000). **Anticoagulant Rodenticides.** In Day, M.J, Mackin, A.J., and   
Littlewood, J.D. (eds). BSAVA Manual of Canine and Feline Haematology and Transfusion Medicine.   
British Small Animal Veterinary Association, Quedgeley, Gloucester, pp 243-251. Also translated into Italian.

**Book Chapters (Continued):**

Allen, D.G., and Mackin, A. (2000). **Cor Pulmonale.** In Tilley, L.P., and Goodwin, J.K. (eds).   
Manual of Canine and Feline Cardiology (3rd Ed). Saunders, Philadelphia, pp 197-214.

Mackin, A. (2004). **Lymphoplasmacytic Rhinitis.** In King, L. (ed).Textbook of Respiratory Disease in Dogs and Cats. Saunders, St. Louis, pp. 305-310.

Mackin, A.J. (2005). **Platelet Disorders.** In August, J.R. (ed). Consultations in Feline Internal Medicine. Elsevier Saunders, St. Louis, pp. 575-584.

Lunsford, K.V., and Mackin, A.J. (2007). **Thromboembolic Therapies in Dogs and Cats: An Evidence-based Approach.** In Schmidt, P.L. (ed). Veterinary Clinics of North America: Small Animal Practice. Elsevier Saunders, St. Louis, pp. 579-609. Also translated into Spanish, Czech, Japanese and Chinese.

Haines, J., Mackin, A. and Day, M. **Immune-Mediaed Hemolytic Anemia in the Dog.** Chapter submitted for publication to Schalm’s Veterinary Hematology, February 2019.

Thomason, J., and Mackin, A. **Assessing Primary Hemostasis.** Chapter submitted for publication to Small Animal Coagulation texbook, July 2019.

Thomason, J., and Mackin, A. **Assessing Secondary Hemostasis.** Chapter submitted for publication to Small Animal Coagulation texbook, July 2019.

Thomason, J., and Mackin A. **Acquired Thrombopathias.** Chapter submitted for publication to Small Animal Coagulation texbook, July 2019.

**On-Line Book Chapters:**

Mackin, A.J. (2018). **Immune-Mediated Polyarthritis.** In Humphries, C. (ed). Vetlexicon Canis. Vetstream, Cambridge.

**Journal Contributions:**

Mackin, A., Dunsmore, J., and Clark, W.T. (1982). **Fleabite Allergic Dermatitis in Dogs: Review of 78 Cases.** Aust. Vet. Pract. **13:** 5.

Parry, B.W., Holloway, S.A., Birch, D.J., and Mackin, A.J. (1988). **Hemophilia in a Cocker Spaniel Dog.**  Aust. Vet. J. **65:** 326.

O'Grady, M.R., Allen, D.G., Mackin, A.J., and Van Gorder, J. (1991). **Exercise in Electrocardiography.**   
Can. Vet. J. **32:** 47.

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.

Mackin, A. (1995). **Canine Immune-Mediated Thrombocytopenia - Part I.**

Compend. Contin. Educ. Pract. Vet. **17:** 353. Also translated into Italian.

Mackin, A. (1995). **Canine Immune-Mediated Thrombocytopenia - Part II.**

Compend. Contin. Educ. Pract. Vet. **17:** 515. Also translated into Italian.

Langlais-Burgess, L., Lumsden, J.H., and Mackin, A. (1995). **Concurrent Hypoadrenocorticism and Hypoalbuminemia in Dogs.** J. Am. Anim. Hosp. Assoc. **31:** 307.

**Journal Contributions (Continued):**

Mackin, A.J., Ayles, H.L., Friendship R.M., Ball R.O., and Wilcock B.P. (1997). **Development and Evaluation of Endoscopic Technique Permitting Rapid Visualization of the Cardiac Region of the Porcine Stomach.** Can. J. Vet. Res. **61:** 121.

Knottenbelt, C., and Mackin, A. (1997). **Transfusion Medicine. Practical Blood Collection in the Dog.** Vet. Pract. Nurse. **9(3):** 27.

Knottenbelt, C., and Mackin, A. (1997). **Transfusion Medicine. Practical Blood Collection in the Cat.** Vet. Pract. Nurse. **9(4):** 4.

Knottenbelt, C., and Mackin, A. (1998). **Transfusion Medicine. Indications for Blood Transfusions and the Administration of Transfusions to Dogs and Cats.** Vet. Pract. Nurse. **10(1):** 4.

Hodson, S., and Mackin, A. J. (1998). **Thrombocytopenia in the Cat.** Feline Focus: J. Europ. Soc. Feline Med.. **8:** 2.

Knottenbelt, C., and Mackin, A. (1998). **Blood Transfusions in the Dog and Cat. Part 1. Blood Collection Techniques.** In Pract. **20(3):** 110.

Knottenbelt, C., and Mackin, A. (1998). **Blood Transfusions in the Dog and Cat. Part 2. Indications and Safe Administration.** In Pract. **20(4):** 191.

Knottenbelt, C.M., Addie, D.D., Day, M.J., and Mackin, A.J. (1999). **Determination of the Prevalence of Feline Blood Types in the UK.** J. Small Anim. Pract. **40:** 115.

Tasker, S., Mackin, A.J., and Day, M.J. (1999). **Primary Immune-Mediated Thrombocytopenia in a Cat.** J. Small Anim. Pract. **40:** 127.

Kushner, L.I., and Mackin, A.J. (1999). **Anesthesia Case of the Month: Methemoglobinemia in a Dog.**J. Am. Vet. Med. Assoc. **214:** 1007.

Tasker, S., Cripps, P.J., and Mackin, A.J. (1999). **Estimation of Platelet Counts on Feline Blood Smears.**   
Vet. Clin. Path. **28(2):** 42.

Knottenbelt, C.M., Day, M.J., Cripps, P.J., and Mackin, A.J. (1999). **Measurement of Titres of   
Naturally-Occurring Alloantibodies Against Feline Blood Group Antigens in the UK.**J. Small Anim. Pract. **40:** 365.

Tasker, S., Knottenbelt C., Munro, E.A.C., Stonehewer, J., Simpson, J.W., and Mackin, A.J. (1999).   
**Aetiology and Diagnosis of Persistent Nasal Disease in the Dog: A Retrospective Study of 42 Cases.**J. Small Anim. Pract. **40:** 473.

Clifford, C.A., Mackin, A.J., and Henry, C.J. (2000). **Treatment of Canine Hemangiosarcoma:   
2000 and Beyond.** J. Vet. Intern. Med. **14:** 479.

Stonehewer, J., Mackin, A.J., Tasker, S., Simpson, J.W., and Mayhew, I.G. (2000). **Idiopathic   
Phenobarbital-Responsive Hypersialosis in the Dog: An Unusual Form of Limbic Epilepsy?**J. Small Anim. Pract. **41:** 416.

**Journal Contributions (Continued):**

Clifford, C.A., Hughes, D., Beal, M.W., Mackin, A.J., Henry, C.J., Shofer, F.S., and   
Sorenmo, K.U. (2001). **Plasma Vascular Endothelial Growth Factor Concentrations in Healthy Dogs   
and Dogs with Hemangiosarcoma.** J. Vet. Intern. Med. **15:** 131.

Kergosien, D., Couto, G., and Mackin, A. (2001). **Challenging Cases in Internal Medicine: What's Your Diagnosis? Canine Lead Poisoning.** Vet. Med. March: 206.

Carpenter, D., Mackin, A., and Gellasch, K. (2001). **ECG of the Month: Transient Atrial Fibrillation in a Dog Following Pericardectomy.** J. Am. Vet. Med. Assoc. **218:** 1890.

Tasker, S., Cripps, P.J., and Mackin, A.J. (2001). **Evaluation of Methods of Platelet Counting in the Cat.** J. Small Anim. Pract. **42:** 326.

Character, B.J., Mackin, A.J., Cantwell, H.D., and Austin, F.W. (2002). **What Is Your Diagnosis? Perihepatic Abscess due to Clostridium perfringens**. J. Am. Vet. Med. Assoc. **221:** 37.

Nawrocki, M.A., Mackin, A.J., Cantwell, H.D., and Ellis, B. (2002). **What Is Your Diagnosis? Migrating Tracheobronchial Foreign Body**. J. Am. Vet. Med. Assoc. **221:** 783.

Vasilopulos, R.J, Mackin, A.J., Jennings, D., and Read., R. (2002). **What Is Your Neurologic Diagnosis? Nerve Sheath Tumor in a Dog.** J. Am. Vet. Med. Assoc. **221:** 1397.

Vasilopulos, R., and Mackin, A.J. (2003). **Humoral Hypercalcemia of Malignancy: Pathophysiology and Clinical Signs.** Compend. Contin. Educ. Pract. Vet. **25:** 122.

Vasilopulos, R., and Mackin, A.J. (2003). **Humoral Hypercalcemia of Malignancy: Diagnosis and Treatment.** Compend. Contin. Educ. Pract. Vet. **25:** 129.

Nawrocki, M.A., Mackin, A.J., McLaughlin, R., and Cantwell, H.D. (2003). **Fluoroscopic and Endoscopic Diagnosis of an Esophagobronchial Fistula in a Dog**. J. Am. Anim. Hosp. Assoc. **39:** 257.

Portillo, E.M., Mackin, A.J., Cantwell, H.D., Trostel, C.T., and Pool, R.R. (2004). **What’s Your Diagnosis? Chronic Hypertrophic Pyloric Gastropathy in a Dog.** J. Am. Vet. Med. Assoc. **224:** 665.

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.

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

Mackin, A.J. (2005). **Immune-Mediated Haemolytic Anaemia: Pathophysiology and Diagnosis.** Irish Vet. J. **58:** 345.

Mackin, A. (2005)  **Approach to Dysphagia and Regurgitation Part 1.** Irish Vet. J. **58:** 400.

Mackin, A. (2005)  **Approach to Dysphagia and Regurgitation, Part 2.** Irish Vet. J. **58:** 459.

Mackin, A.J. (2005). **Immune-Mediated Thrombocytopenia: Treatment and Prognosis.** Irish Vet. J.   
**58:** 637.

**Journal Contributions (Continued):**

Smith, J.W., Day, T.K., and Mackin, A. (2005). **Diagnosing Bleeding Disorders.** Compend. Contin. Educ. Pract. Vet. **27:** 828.

Portillo, E., Mackin, A., Hendrix, P.K., Boyle, C., and Chrestman, L. (2006). **Comparison of the Modified Seldinger and Through-The-Needle Jugular Catheter Placement Techniques in the Dog.**J. Vet. Emerg. Crit. Care. **16:** 88.

Presley, R.H., Mackin, A., and Vernau W. (2006). **Lymphoid Leukemia in Dogs.** Compend. Contin. Educ. Pract. Vet. **28:** 831.

Vasilopulos, R., Mackin, A., Rickard, L.G., Pharr, G.T., and Huston, C. (2006). **Prevalence of Giardia Species and Factors Associated with Fecal Shedding of the Organism in Domestic Cats.** J. Am. Anim. Hosp. Assoc**.**. **42:** 424.

Skripchenko, A., Balch, A., Mackin, A., and Wagner, S.J. (2007). **In Vivo Recovery and Survival of Red Cells after Photodynamic Treatment with Thiopyrylium and Red Light using a Canine Model.** Vox Sanguinis. **92:** 157.

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

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

Vasilopulos, R., Rickard, L.G., Mackin, A., Pharr, G.T., and Huston, C.L. (2007). **Genotypic Analysis of Giardia Duodenalis in Domestic Cats.** J. Vet. Intern. Med. **21:** 352.

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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.

Grace, S., Bryan, C., Mackin, A., Payne, L., and Jones, J. (2014). **Prevalence of Zoonotic Diseases in Dogs and Cats Belonging to Women Entering a Regional Domestic Violence Shelter.** Mississippi Academy of Sciences 79th Annual Meeting, Hattiesburg, Mississippi.

Archer, T., Fellman, C., Stokes, J., Kummari, E., Thomason, J., Haraschak, J., Pinchuk, L., Wills, R., and Mackin, A.(2015). **Effects of Aspirin and Cyclosporine on Canine T-Cell Cytokines and Regulatory T-Cells.** 33nd 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 Factors in Canine Fresh Frozen Plasma.** 33nd 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.** 33nd Annual Forum of the ACVIM, Indianapolis, Indiana. Abstract published in JVIM.

Sullivant, A., Archer, T., Mackin, A., Pharr, T., and Cooley, J. (2015). **Identification of Histamine Receptors in the Canine Gastrointestinal Tract.** 33nd Annual Forum of the ACVIM, Indianapolis, Indiana. Abstract published in JVIM.

McLewee, N., Archer, T., Wills, R., Mackin, A., and 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.K., Archer, T., Mackin, A., and 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.

Thomason, J., Mackin, A., Wills, R., and Archer, T. (2016). **Late-Breaking Research:** **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., Lee, B., Thomason, J., and Archer, T. (2016). **Late-Breaking Research:** **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.

**Scientific Abstracts (Continued):**

Fellman, C., Narayanan, L., Riggs, C., Mulligan, C., Lunsford, K., Mackin, A., Thomason, J., and Archer, T. (2016). **Late-Breaking Research:** **Effects of Immunosuppressive Drug Therapy on Canine Activated Whole Blood Expression of IL-2 & IFN-γ.** 34th Annual Forum of the ACVIM, Denver, Colorado. Abstract published in JVIM.

Mulligan, C., Seo, K.S., Lunsford, K., Thomason, J., Archer, T., Kaplan, B., Park, N., Narayanan, L., Lee, B., and Mackin, A. (2017). **Concentration-Dependent Effects of Mycophenolic Acid on Canine Lymphocytes.** 35th Annual Forum of the ACVIM, National Harbor, Colorado. Abstract published in JVIM.

Mulligan, C., Seo, K.S., Kaplan, B., Lunsford, K., Thomason, J., Archer, T., Park, N., Narayanan, L.,   
Alexander, K., and Mackin, A. (2017). **Oral Mycophenolate Mofetil Dose Escalation Trial Assessing Adverse Effects and Pharmacodynamic Responses in Normal Dogs.** 35th Annual Forum of the ACVIM, National Harbor, Colorado. Abstract published in JVIM.

Thomason, J., Mulligan, C., Narayanan, L., Durso, L., Thames, B., Mackin, A., and Archer, T. (2017). **Recovery of T-Cell Function in Healthy Dogs Following Cessation of Cyclosporine Therapy.** 35th Annual Forum of the ACVIM, National Harbor, Colorado. Abstract published in JVIM.

Martin, P.Y., Thames, B., Mulligan, C., Thomason, J., and Mackin, A. (2017). **Immediate Post-Transfusion Survival of Biotinylated Canine Red Blood Cells with Various Transfusion Techniques.** 35th Annual Forum of the ACVIM, National Harbor, Colorado. Abstract published in JVIM.

Cooley-Lock, K., Williams, P., Williams, M., Elder, S., Archer, T., Mackin, A., and Thomason, J. (2017). **Erythrocyte Damage and In-Line Pressure Changes Associated With Transfusion of Canine Blood Through Microaggregate Filters.** 35th Annual Forum of the ACVIM, National Harbor, Colorado. Abstract published in JVIM.

Sullivant, A., and Mackin, A. (2018). **Strategies to Improve Case Outcome When Referral is Not Affordable.** 36th Annual Forum of the ACVIM, Seattle, Washington. Abstract published in JVIM.

Cridge, H., Kordon, A., Pinchuk, L.M., Wills, R.W., Thomason, J.M, Mackin, A.J., and Archer, T.M. (2019). **Effects of Cyclosporine on Feline Lymphocytes Activated In Vitro.** 37th Annual Forum of the ACVIM, Phoenix, Arizona. Abstract published in JVIM.

**Letters to the Editor:**

Mackin, A. (1994). **Serum Erythropoietin Assays.** J. Vet. Intern. Med. **8:** 314.

Mackin, A. (1998). **Hiatal Hernia in Brachycephalics.** J. Vet. Intern. Med. **12:** 478.

Mackin, A., Archer, T., Lunsford, K., Fellman, C., and Thomason, J. (2016). **Treatment of Immune-**

**Mediated Polyarthritis in Dogs.** J. Am. Vet. Med. Assoc. **248:** 876.

Cridge, H., MacLeod, A., Pachtinger, G., Mackin, A., Sullivant, A., Thomason, J., Archer, T., Lunsford, K., Rosenthal, K., and Wills, R. (2018). **Evaluation of SNAP® cPL™, Spec cPL™, VetScan cPL Rapid Test™ & Precision PSL™ Assays for the Diagnosis of Clinical Pancreatitis in Dogs.** J. Vet. Intern. Med. **32:** 1298.

**Continuing Education/Scientific Lectures Presented:**

**International:**

Mackin, A.J. (1989). **Rational Anticonvulsant Therapy.** Kendall Hall Seminars for Veterinarians, Recent Advances Series: Rational Companion Animal Therapeutics. University of Melbourne, Victoria, Australia.

Mackin, A.J. (1991). **Research Update: Vincristine and Normal Canine Platelets.** Seminar, Murdoch University. Western Australia, Australia.

Mackin, A.J. (1994). **What’s New with Canine IMT.** University of Sydney Veterinary School. New South Wales, Australia.

Mackin, A.J. (1994). **Canine IMT: Diagnosis and Therapy.** Murdoch Veterinary School. Western Australia, Australia.

Mackin, A.J. (1995). **Nutritional Evaluation from Routine Biochemical Screening.** Societá Culturale Italiana Veterinari per Animali da Compagnia Annual Scientific Meeting. Bologna, Italy.

Mackin, A.J. (1996). **Management of Viral Diarrhoea.** Moscow Association of Veterinary Scientists Annual Conference on Important Problems in Small Animal Practice. Moscow, Russia.

Mackin, A.J. (1996). **Indications for the Use of Low Fat and Low Protein Diets.** ANIMED Conference. Moscow, Russia.

Mackin, A.J. (1996). **Managing the Chronic Diabetic Dog** and **Diagnostic Approach to Bleeding Disorders.** World Small Animal Veterinary Association Congress. Jerusalem, Israel.

Mackin, A.J. (1997). **Clinical Teaching: Transforming Students into Veterinarians.** European Association Establishments for Veterinary Education Symposium on Teaching in Veterinary Medicine. Budapest, Hungary.

Mackin, A.J. (2000). **Haemostasis, Practical Blood Transfusions, Approach to Anaemia, Immune-Mediated Blood Disorders, Hypoalbuminaemia** and **Jaundice.** Murdoch University Continuing Education Weekend Course 'The River of Life'. Western Australia, Australia.

Mackin, A.J. (2000). **Hypoalbuminemia, Jaundice, Anemia, Practical Blood Transfusions, Immune-Mediated Hemolytic Anemia,** and **Hemostasis.** Danish Small Animal Veterinary Association Annual Scientific Meeting. Aarhus, Denmark.

Mackin, A.J. (2002). **Haemostatic Disorders, Approach to Anaemia, Transfusion Therapy, Jaundice, Approach to Nasal Disease, Immunosuppressive Therapy,** and **Hypoalbuminaemia.** Problems in Internal Medicine, University of Sydney Post-Graduate Foundation in Veterinary Science Course. Sydney, Australia.

Mackin, A.J. (2004). **Feline Anemia, Platelet Disorders in the Cat, Feline Transfusion Medicine, Marrow Collection in the Cat** and **Fever in the Cat; Jaundice in the Dog** and **Jaundice in the Cat (Interactive Cases).** 48th National Congress Societá Culturale Italiana Veterinari per Animali da Compagnia. Rimini, Italy.

Mackin, A.J. (2005). **Jaundice, Dysphagia and Regurgitation, Vomiting and Diarrhea, Azotemia, Hemoabdomen** and **Medical Proceedures.** Veterinary Ireland Companion Animal Society Winter Conference. Kilkenny, Ireland.

**Continuing Education/Scientific Lectures Presented:**

**International (Continued):**

Mackin, A.J. (2007). **Fever, Hypoalbuminemia, Weight Loss, Polyuria/Polydipsia, Transfusion** and **Hematological Techniques.** Veterinary Ireland Companion Animal Society Winter Conference. Kilkenny, Ireland.

Mackin, A.J. (2011). **Diagnosis of Immune-Mediated Hemolytic Anemia, Emergency and Chronic Management of Immune-Mediated Blood Disorders,** and **Cyclosporine: Research Update.** Australian College of Veterinary Scientists Science Week. Surfers Paradise, Australia.

Mackin, A.J. (2011). **Bone Marrow Collection in the Dog and Cat, Transfusion in the Dog, Transfusion in the Cat, Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Blood Disorders: Emergency Management, Immune-Mediated Blood Disorders: Chronic Management, Primary Hemostasis, Secondary Hemostasis** and **Fever of Unknown Origin.** Nippon Animal Hospital Association. Osaka, Fukuoka, and Tokyo, Japan.

Mackin, A.J. (2017). **Immune-Mediated Hemolytic Anemia, Immune-Mediated Thrombocytopenia, Immunosuppressive Therapy: Established Drugs, Immunosuppressive Therapy: Newer Drugs, Fever of Unknown Origin, Canine Transfusion** and **Feline Transfusion.** University ofSydney Center of Veterinary Education. Queenstown, New Zealand.

Mackin, A.J. (2017**). Immune-Mediated Hemolytic Anemia, Immune-Mediated Thrombocytopenia, Immune-Mediated Polyarthritis, Immunosuppressive Therapy: Better Use of Established Drugs,** and **Immunosuppressive Therapy: What’s New.** International Veterinary Seminars. Nassau, Bahamas.

Mackin, A.J. (2018). **Immune-Mediated Hemolytic Anemia, Immune-Mediated Thrombocytopenia, Polyarthritis, Fever of Unknown Origin, Emergency Management of Immune-Mediated Blood Disorders, Chronic Management of Immune-Mediated Blood Disorders, Canine Transfusion** and **Feline Transfusion.** Australian Veterinary Association Annual Conference. Brisbane, Australia.

Mackin, A.J. (2019). **Diagnosis of Hyperadrenocorticism, Treatment of Hyperadrenocorticism, Hypoadrenocorticism, Diagnosis of Diabetes Mellitus, Treatment of Diabetes Mellitus, Diabetic Ketoacidosis, Hypothyroidism, Hyperthyroidism, Hypocalcemia, Hypercalcemia, Hypoglycemia,** and **Polyuria/Polysipsia and Diabetes Insipidus.** Chinese School for Advanced Veterinary Studies. Nanjing, China.

Mackin, A.J. (2019). **Approach to Anemia, Disorders of Primary Hemostasis, Disorders of Secondary Hemostasis,** **Immune-Mediated Hemolytic Anemia, Immune-Mediated Thrombocytopenia, Practical Blood Transfusion in the Dog, Practical Blood Transfusion in the Cat, Immunosuppressive Therapy: Better Use of Established Drugs, Immunosuppressive Therapy: What’s New, Bone Marrow Collection, Immune-Mediated Polyarthritis,** and **Fever of Unknown Origin.** Chinese School for Advanced Veterinary Studies. Nanjing, China.

Mackin, A.J. (2019). **Immune-Mediated Hemolytic Anemia, Immune-Mediated Thrombocytopenia, Immune-Mediated Polyarthritis, Immunosuppressive Therapy: Better Use of Established Drugs,** and **Immunosuppressive Therapy: What’s New.** International Veterinary Seminars. Georgetown, Cayman Islands.

**Continuing Education/Scientific Lectures Presented:**

**United Kingdom:**

Mackin, A.J. (1994). **Update: Diagnosis and Treatment of Canine Immune-Mediated Thrombocytopenia.** Royal (Dick) School of Veterinary Studies, University of Edinburgh, Scotland.

Mackin, A.J. (1995). **Approach to Anaemia.** University of Edinburgh Small Animal Medicine Programme: Evening Seminar Series. Edinburgh, Scotland.

Mackin, A.J. (1995). **Basic Principles of Oncology** and **Cancer Diagnosis and Medical Therapy.** University of Edinburgh Small Animal Medicine Programme: Clinical Oncology. Edinburgh, Scotland.

Mackin, A.J. (1995). **Fluid Therapy** and **Enteral Nutrition.** University of Edinburgh Small Animal Medicine Programme: Critical Care. Edinburgh, Scotland.

Mackin, A.J. (1995). **The Anaemic Dog: How I Diagnose and Manage Anaemia Associated With Bone Marrow Suppression** and **How I Diagnose and Manage Bleeding Disorders in the Dog: Platelet Abnormalities.** British Small Animal Veterinary Association Congress. Birmingham, England.

Mackin, A.J. (1995). **Medical Management of Urethral Sphincter Incontinence.** British Soft Tissue Surgery Association Annual General Meeting. Birmingham, England.

Mackin, A.J. (1995). **Advances in Small Animal Internal Medicine.** Lithuanian Veterinary Academy, Naturewatch Study Visit.Edinburgh, Scotland.

Mackin, A.J. (1995). **Teaching Small Animal Nutrition in a Clinical Setting.** WALTHAM Lecturers’ Programme. Melton Mowbray, England.

Mackin, A.J. (1995). **Hypoadrenocorticism, Hyperadrenocorticism** and **Pituitary Disorders.**University of Edinburgh Small Animal Medicine Programme: Endocrinology. Edinburgh, Scotland.

Mackin, A.J. (1996). **Surviving Small Animal Emergencies in Practice.** University of Edinburgh Clinical Club. Edinburgh, Scotland.

Mackin, A.J. (1996). **Immune-Mediated Blood Disorders** and **Diagnosis and Management of Bleeding Disorders.** BSAVA Scottish Regional Meeting (Haematology). Inverness, Scotland.

Mackin, A.J. (1996). **Advances in the Management of Canine and Feline Glomerulopathies.** British Small Animal Veterinary Association Annual Congress. Birmingham, England.

Mackin, A.J. (1996). **Diagnostic and Therapeutic Approach to the Anaemic Dog.** University of Edinburgh Small Animal Internal Medicine Roadshow. Coventry, England.

Mackin, A.J. (1996). **Feline Anaemia.** University of Edinburgh Small Animal Medicine Programme:   
 Feline Medicine. Edinburgh, Scotland.

Mackin, A.J. (1996). **Medical Emergencies.** University of Edinburgh Small Animal Medicine Programme: Evening Seminar Series. Edinburgh, Scotland

**Continuing Education/Scientific Lectures Presented:**

**United Kingdom (Continued):**

Mackin, A.J. (1997). **White Cell Disorders, Haemostatic Disorders, Bone Marrow Collection and Analysis, Therapeutics (including Transfusion)** and **Advanced Cytological Techniques.** BSAVA Weekend Residential Course. Reading, England.

Mackin, A.J. (1997). **Haematological Emergencies.** University of Edinburgh Clinical Club. Edinburgh, Scotland

Mackin, A.J. (1997). **Immune-Mediated Thrombocytopenia: Immunopathogenesis and Diagnosis** and **Autoimmune** **Haemolytic Anaemia and Immune-Mediated Thrombocytopenia: Treatment and Management.** World Small Animal Veterinary Association Annual Congress. Birmingham, England.

Mackin, A.J. (1997). **Anaemia, Jaundice** and **Bleeding Disorders.** BSAVA Regional Weekend Continuing Education Course, Jersey.

Mackin, A.J. (1997). **Diabetic Ketoacidosis** and **Haematological Emergencies.** UnivEd Customised CPD Course. Grimsby, England

Mackin, A.J. (1997). **Medical Emergencies: Hyperkalaemia, Hypercalcaemia** and **Hypoalbuminaemia.** University of Edinburgh Internal Medicine Roadshow 2. Coventry, England.

Mackin, A.J. (1997). **Medical Emergencies: Hyperkalaemia, Hypercalcaemia, Hypoalbuminaemia** and **Fluid Therapy.** UnivEd Customised CPD Course, Tayside Clinical Club. Dundee, Scotland.

Mackin, A.J. (1997). **Bone Marrow Collection and Interpretation, White Blood Cell Disorders** and **Interpretation of Serum Biochemistry.** University of Edinburgh Small Animal Medicine Programme:   
Clinical Pathology Weekend Module. Edinburgh, Scotland

Mackin, A.J. (1997). **Medical Emergencies: Hypoalbuminaemia and Fluid Therapy.**University of Edinburgh Clinical Club. Edinburgh, Scotland.

Mackin, A.J. (1997). **Acute Renal Failure** and **Diabetic Ketoacidosis.** UnivEd Customised CPD Course,

Tayside Clinical Club. Perth, Scotland.

Mackin, A.J., and Knottenbelt, C. (1997). **Blood Transfusion in Small Animals.** University of Edinburgh/Hills Friday Undergraduate Seminar. Edinburgh, Scotland.

Mackin, A.J. (1997). **Medical Emergencies: Hyperkalaemia, Hypercalcaemia, Hypoalbuminaemia,** **Fluid Therapy** and **Enteral Nutrition.** UnivEd Customised CPD Course. Grimsby, England.

Mackin, A.J. (2000). **Bleeding Disorders (Primary Hemostatic Defects), Bleeding Disorders (Secondary Hemostatic Defects), Anemia: Diagnostic Approach, Immune-Mediated Hemolytic Anemia, Managing the Patient with a Bleeding Disorder, Canine Hematology (Interactive Cases), Immune-Mediated Blood Disorders (Specialist Session)** and **Hematology for Veterinary Nurses (Nursing Seminar).** British Small Animal Veterinary Association Annual Congress. Birmingham, England.

Mackin, A.J. (2004). **Practical Blood Transfusions** and **Fluid Therapy.** British Association of Veterinary Emergency and Critical Care Annual Meeting. Birmingham, England.

**Continuing Education/Scientific Lectures Presented:**

**United Kingdom (Continued):**

Mackin, A.J. (2004). **Immune-Mediated Blood Disease: Pathophysiology and Diagnosis (Double Lecture), Immune-Mediated Blood Disorders: Acute and Chronic Management (Double Lecture), Challenging Internal Medicine Cases (Interactive Double Lecture), Blood Smears and Bone Marrow Aspirates,**

**Diagnostic Respiratory Techniques** and **Practical Hematology Techniques (Nursing Laboratory).**British Small Animal Veterinary Association Annual Congress. Birmingham, England.

Mackin, A.J. (2004). **Approach to Anemia, Immune-Mediated Hemolytic Anemia and Thrombocytopenia: Pathophysiology and Diagnosis** and **Bone Marrow Collection/Interpretation.** British Small Animal Veterinary Association One Day Continuing Education Course. Quedgely, England.

Mackin, A.J. (2004). **Approach to Anemia, Bone Marrow Collection/Interpretation, Diagnosis of Hemostatic Disorders, Approach to Hypercalcemia** and **Challenging Clinical Pathology Cases (3 Hours).** British Small Animal Veterinary Association Two Day Continuing Education Course. Quedgely, England.

Mackin, A.J. (2009). **Fever of Unknown Origin, Approach to Anemia, Hypoalbuminemia, Hematologic Techniques (Nurses Program)** and **Cancer Diagnostics and Therapy (Nurses Program).** Scottish BSAVA Annual Meeting. Saint Andrews, Scotland.

**Continuing Education/Scientific Lectures Presented:**

**North America:**

Mackin, A.J. (1991). **Management of the Jaundiced Cat.** OVC Cat Club. Ontario, Canada.

Mackin, A.J. (1991). **Anemic Crisis** and **Bleeding Disorders.** OVC Companion Animal Certificate Series in Internal Medicine and Surgery: Critical Care. Ontario, Canada.

Mackin, A.J. (1991). **Management of the Dyspneic Cat.** OVC Cat Club. Ontario, Canada.

Mackin, A.J. (1993). **Approach to the Bleeding Dog.** Canadian Veterinary Students Association Annual PROBE Lecture Series. Ontario, Canada.

Mackin, A.J. (1993). **Immune-Mediated Thrombocytopenia in the Dog.** OVC Student Chapter, American Animal Hospital Association. Ontario, Canada.

Mackin, A.J. (1994). **IMT in the Dog: A Clinical Update.** Ontario Veterinary College. Ontario, Canada.

Mackin, A.J. (1998). **Treatment of Canine Immune-Mediated Thrombocytopenia.** Mississippi Veterinary Medical Association Winter Meeting, Mississippi State University. Starkville, Mississippi.

Mackin, A.J. (1998). **Diabetes Mellitus and Diabetic Ketoacidosis.**   
Tuscaloosa County Veterinary Medical Association. Tuscaloosa, Alabama.

Mackin, A.J. (1998). **Pathophysiology/Diagnosis of Immune-Mediated Thrombocytopenia** and **Therapeutic Management of Immune-Mediated Thrombocytopenia.** Sixteenth Annual Forum of the American College of Veterinary Internal Medicine. San Diego, California.

Mackin, A.J. (1998). **Introduction to Small Animal Nutrition** and **Nutritional Management of the Hospitalized Patient.** WALTHAM Evening Lectures, Mississippi State University, Starkville, Mississippi.

Mackin, A.J. (1999). **Feline Anemia.** Jefferson County Veterinary Medical Association. Birmingham, Alabama.

Mackin, A.J. (1999). **The Jaundiced Cat, Feline Thrombocytopenia** and **Feline Anemia.** Tuscaloosa County Veterinary Medical Association Winter Meeting. Tuscaloosa, Alabama.

Mackin, A.J. (1999). **Practical Blood Transfusion.** Tuscaloosa County Veterinary Medical Association. Tuscaloosa, Alabama.

Mackin, A.J. (1999). **Chronic Management of the Diabetic Dog and Cat.** Jackson Veterinary Medical Association. Jackson, Mississippi.

Mackin, A.J. (1999). **Approach to Feline Platelet Disorders.** Seventeenth Annual Forum of the American College of Veterinary Internal Medicine. Chicago, Illinois.

Mackin, A.J. (1999). **Problems in Small Animal Internal Medicine: Anemia, Jaundice, Hypoalbuminemia, and Bleeding Disorders.** Southeast Veterinary Conference. Myrtle Beach, South Carolina.

**Continuing Education/Scientific Lectures Presented:**

**North America (Continued):**

Mackin, A.J. (1999). **Primary Hemostasis: Death by One Million Pin Points** and **Secondary Hemostasis: Watch Out for That One Big Bleed.**  American Veterinary Medical Association Annual Convention.   
New Orleans, Louisiana.

Mackin, A.J. (1999). **Small Animal Program: Anemia and Hemostasis, Diagnostic and Therapeutic Approach** and **Technicians Program: Hematological Disorders, Diagnostic and Therapeutic Techniques.**

Jefferson County Veterinary Medical Association Eleventh Annual Continuing Education Seminars. Birmingham, Alabama.

Mackin, A.J. (1999). **Nasal Discharge in the Dog and Cat.** Multimedia continuing practitioner education presentation, multiple distant sites, Mississippi State University College of Veterinary Medicine Extension Services Distance Learning Initiative. Starkville, Mississippi.

Mackin, A.J. (1999). **Evaluation of the Adequacy of Nutritional Support of Hospitalized Patients.** Mississippi State Biochemistry and Molecular Biology Postgraduate/Faculty Seminar, Mississippi State University, Starkville, Mississippi.

Mackin, A.J. (2000). **Approach to Nasal Disorders in the Dog and Cat** and **Collection of Bone Marrow.** Tuscaloosa County Veterinary Medical Association Winter Meeting. Tuscaloosa, Alabama.

Mackin, A.J. (2000). **Polyuria/Polydipsia: Basic Principles, Initial Diagnostic Approach to Polyuria/Polydipsia,** and **Polyuria/Polydipsia: Dealing with More Challenging Diagnoses.** On-line evening continuing education course (3 weeks), Veterinary Information Network.

Mackin, A.J. (2000). **Diagnostic Techniques.** Multimedia continuing practitioner education presentation, multiple distant sites, Mississippi State University College of Veterinary Medicine Extension Services Distance Learning Initiative. Starkville, Mississippi.

Mackin, A.J. (2000). **Esophagostomy Feeding Tube Project: Preliminary Results.** Mississippi State University CVM Research Seminar Series, Starkville, Mississippi.

Mackin, A.J. (2000). **Hypoalbuminemia.** On-line evening continuing education seminar, Veterinary Information Network.

Mackin, A.J. (2001). **Management of Diabetes in the Dog and Cat.** South Mississippi Veterinary Medical Association. Gulfport, Mississippi.

Mackin, A.J. (2001). **Bone Marrow Collection** and **Practical Blood Transfusions.** Mississippi Veterinary Medical Association Winter Meeting. Starkville, Mississippi.

Mackin, A.J. (2001). **Nasal Disease in the Dog and Cat.** On-line evening continuing education course   
(2 weeks), Veterinary Information Network.

Mackin, A.J. (2001). **Diagnostic Approach to Anemia, Bone Marrow Collection and Interpretation,** and **Immunosuppressive Therapy for Immune-Mediated Blood Disorders.** On-line evening continuing education course (6 weeks), Veterinary Information Network.

**Continuing Education/Scientific Lectures Presented:**

**North America (Continued):**

Mackin, A.J. (2001). **Advances in the Treatment of Immune-Mediated Blood Disorders.** Nineteenth Annual Forum of the American College of Veterinary Internal Medicine. Denver, Colorado.

Mackin, A.J. (2001). **Immunosuppressive Therapy for Immune-Mediated Blood Disorders.** Tuscaloosa County Veterinary Medical Association Winter Meeting. Tuscaloosa, Alabama.

Mackin, A.J. (2001). **Chronic Management of the Diabetic Dog and Cat.** Multimedia continuing education presentation, multiple distant sites, Mississippi State University College of Veterinary Medicine Extension Services Distance Learning Initiative. Starkville, Mississippi.

Mackin, A.J. (2001). **Immune-Mediated Hemolytic Anemia, Immunosuppressive Therapy for Immune-Mediated Blood Disorders, Bone Marrow Collection and Interpretation, Bleeding Disorders,**

**Hypoalbuminemia, Practical Blood Transfusions** and **Jaundice.** Central Florida Academy of Veterinary Medicine Weekend Course. Orlando, Florida.

Mackin, A.J. (2002). **Bone Marrow Collection.** Mississippi State University Advanced Small Animal Diagnostic and Therapeutic Techniques Course. Starkville, Mississippi.

Mackin, A.J. (2002). **Practical Clinical Use of Glucocorticoids, Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Blood Disorders: Emergency Management,** and **Immune-Mediated Blood Disorders: Chronic Management.** Twentieth Annual Forum of the American College of Veterinary Internal Medicine. Dallas, Texas.

Mackin, A.J. (2002). **Polyuria/Polydipsia** and **Urinary Incontinence.** Mississippi Veterinary Medical Association Summer Meeting. Tunica, Mississippi.

Mackin, A.J. (2002). **Polyuria/Polydipsia: Basic Principles, Initial Diagnostic Approach to Polyuria/Polydipsia,** and **Polyuria/Polydipsia: Dealing with More Challenging Diagnoses.** On-line evening continuing education course (3 weeks), Veterinary Information Network.

Mackin, A.J. (2002). **Immunosuppressive Therapy, Diagnosis of Thrombocytopenia, Practical Blood Transfusions,** and **Bone Marrow Collection.** 2002 American Veterinary Medical Association Annual Convention. Nashville, Tennessee.

Mackin, A.J. (2002). **Cerebrospinal Fluid Collection.** Series of three lectures and on-line recorded session, Banfield Annual Symposium. Portland, Oregon.

Mackin, A.J. (2002). **Immunosuppressive Therapy.** Multimedia continuing practitioner education presentation, multiple distant sites, Mississippi State University College of Veterinary Medicine Extension Services Distance Learning Initiative. Starkville, Mississippi.

Mackin, A.J. (2002). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis,   
Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Blood Disorders: Emergency Management, Immune-Mediated Blood Disorders: Chronic Management,   
Practical Blood Transfusion** and **Bone Marrow Collection (Lecture and Practical Laboratory).** University of Minnesota Fall Conference. Saint Paul, Minnesota.

**Continuing Education/Scientific Lectures Presented:**

**North America (Continued):**

Mackin, A.J. (2002). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis,   
Immune-Mediated Blood Disorders: Emergency Management** and **Immune-Mediated Blood Disorders: Chronic Management.** Dallas County Veterinary Medical Association. Dallas, Texas.

Mackin, A.J. (2003). **Feline Toxoplasmosis.** Tuscaloosa County Veterinary Medical Association. Tuscaloosa, Alabama.

Mackin, A.J. (2003). **Immune-Mediated Hemolytic Anemia, Immunosuppressive Therapy, Practical Blood Transfusions** and **Hemostasis.** Louisiana Academy of Veterinary Practitioners. Baton Rouge, Louisiana.

Mackin, A.J. (2003). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis,   
Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Blood Disorders: Emergency Management,** and **Immune-Mediated Blood Disorders: Chronic Management.**Central New York Academy of Veterinary Continuing Education. Syracuse, New York.

Mackin, A.J. (2003). **Fluid Therapy.** Tuscaloosa County Veterinary Medical Association. Tuscaloosa, Alabama.

Mackin, A.J. (2003). **Fluid Therapy.** South Mississippi Veterinary Medical Association. Biloxi, Mississippi.

Mackin, A.J. (2003). **Fluid Therapy.** Multimedia continuing education presentation, multiple distant sites, Mississippi State University College of Veterinary Medicine Extension Services Distance Learning Initiative. Starkville, Mississippi.

Mackin, A.J. (2003). **Hemostasis, Practical Blood Transfusions** and **Immunosuppressive Therapy.** Richmond Academy of Veterinary Medicine. Richmond, Virginia.

Mackin, A.J. (2003). **Fever of Unknown Origin.** Series of three lectures and on-line recorded session,   
Banfield Annual Symposium. Portland, Oregon.

Mackin, A.J. (2004). **Fever of Unknown Origin.** Multimedia continuing education presentation, multiple distant sites, Mississippi State University College of Veterinary Medicine Extension Services Distance Learning Initiative. Starkville, Mississippi.

Mackin, A.J. (2004). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis,   
Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Blood Disorders: Emergency Management,** and **Immune-Mediated Blood Disorders: Chronic Management.**Denver Area Veterinary Medical Society Veterinary Learning Institute. Denver, Colorado.

Mackin, A.J. (2004). **Diagnosis of Immune-Mediated Hemolytic Anemia and Thrombocytopenia, Emergency Management of Patients with Immune-Mediated Blood Disorders, Chronic Management of Patients with Immune-Mediated Blood Disorders, Case Rounds: Hemolytic Anemia,** and **Pearls: Vincristine and Thrombocytopenia.** American Animal Hospital Association Seventy-First Annual Meeting. Tampa, Florida.

Mackin, A.J. (2004). **Fun Cases In Hematology: Challenging Hematology Cases** and **Fun Cases In Hematology: Hemostasis** (shared with Dr. J. Wardrop), and **Vitamin K and Hemostasis.** Twenty-second Annual Forum of the American College of Veterinary Internal Medicine. Minneapolis, Minnesota.

**Continuing Education/Scientific Lectures Presented:**

**North America (Continued):**

Mackin, A.J. (2004). **Fever of Unknown Origin.** Tuscaloosa County Veterinary Medical Association. Tuscaloosa, Alabama.

Mackin, A.J. (2004). **Overview of Hemostasis.** Series of three lectures and on-line recorded session,   
Banfield Annual Symposium. Portland, Oregon.

Mackin, A.J. (2004). **Practical Blood Transfusion** and **Bone Marrow Collection.** Capital Area Veterinary Medical Association. Austin, Texas.

Mackin, A.J. (2004). **Practical Blood Transfusion.** North Alabama Veterinary Medical Association.   
Cullum, Alabama.

Mackin, A.J. (2004). **Problems in Small Animal Internal Medicine, A Problem-Oriented Diagnostic Approach: Hypoalbuminemia, Anemia, Jaundice** and **Fever.** On-line evening continuing education course   
(4 weeks), Veterinary Information Network.

Mackin, A.J. (2005). **Overview of Hemostasis.** Series of two lectures, Banfield Symposium. Portland, Oregon.

Mackin, A.J. (2005). **Nasal Disorders in the Dog and Cat** and **Vomiting and Diarrhea in the Dog and Cat.** Mississippi Veterinary Medical Association Winter Meeting, Mississippi State University. Starkville, Mississippi.

Mackin, A.J. (2005). **Endoscopy.** Tuscaloosa County Veterinary Medical Association Winter Meeting. Tuscaloosa, Alabama.

Mackin, A.J. (2005). **Low Molecular Weight Heparins.** Antech Monthly Consultant Telephone Conference.

Mackin, A.J. (2005). **Endoscopy.** Multimedia continuing practitioner education presentation, multiple distant sites, Mississippi State University College of Veterinary Medicine Extension Services Distance Learning Initiative. Starkville, Mississippi.

Mackin, A.J. (2005). **Nasal Disease in the Dog and Cat, Fever of Unknown Origin** and **Immunosuppressive Therapy.** Golden Triangle Veterinary Association. Kitchener, Ontario.

Mackin, A.J. (2005). **Prevention of Transfusion-Transmitted Infections.** Twenty-third Annual Forum of the American College of Veterinary Internal Medicine. Baltimore, Maryland.

Mackin, A.J. (2005). **Practical Blood Transfusions.** On-line evening rounds session, Australian College of Veterinary Scientists/Veterinary Information Network.

Mackin, A.J. (2005). **Approach to Anemia, Bone Marrow Collection, Practical Blood Transfusion** and **Diagnosis and Management of the Immune-Mediated Blood Disorders.** CanWest Veterinary Conference. Banff, Alberta.

Mackin, A.J., and Johnson, M. (2006). **Practical Cancer Diagnostics.** Mississippi Veterinary Medical Association Winter Meeting, Mississippi State University. Starkville, Mississippi.

**Continuing Education/Scientific Lectures Presented:**

**North America (Continued):**

Mackin, A.J. (2006). **Collecting Diagnostic Samples from the Respiratory Tract, Collecting Diagnostic Samples from the Lower Urinary Tract** and **Collecting Diagnostic Bone Marrow Samples.**AnnualAAHA Conference. Long Beach, California.

Mackin, A.J. (2006). **Practical Blood Transfusions, Bleeding Disorders, Immunosuppressive Therapy for Immune-Mediated Blood Disorders, Approach to Nasal Disease** and **Fever of Unknown Origin.** Central Florida Academy of Veterinary Medicine Weekend Course. Orlando, Florida.

Mackin, A.J. (2006). **Fluid Therapy** and **Diagnostic Techniques: Respiratory, Urinary, and Bone Marrow.** Golden Triangle Veterinary Association. Kitchener, Ontario.

Mackin, A.J. (2006). **Hematologic Disorders: Transfusion, Anemia,** and **Hemostatic Disorders.** Manitoba Veterinary Medical Association Annual General Meeting. Winnipeg, Manitoba.

Mackin, A.J., and Johnson, M. (2007). **Clinical Pathologic Diagnostic Techniques.** Tuscaloosa County Veterinary Medical Association Winter Meeting. Tuscaloosa, Alabama.

Mackin, A.J. (2007). **Approach to Anemia, Bone Marrow Collection** and **Practical Blood Transfusion.** Madison County Veterinary Medical Association. Huntsville, Alabama.

Mackin, A.J. (2007). **‘Ain’t Doing Right’: Weight Loss, Hypoalbuminemia** and **Dysphagia/Regurgitation.** Mississippi Veterinary Medical Association Annual General Meeting. Biloxi, Mississippi.

Mackin, A.J. (2007). **Approach to** **Anemia, Immune-Mediated Hemolytic Anemia, Immune-Mediated Thrombocytopenia** and **Disseminated Intravascular Coagulation.** Wichita Veterinary Medical Association. Wichita, Kansas.

Mackin, A.J. (2007). **Case Discussions in Hematology (Anemia and Hemostasis)** and **Practical Blood Transfusions.** Shelby County/Memphis Veterinary Medical Association. Tunica, Mississippi.

Mackin, A.J. (2008). **Approach to Anemia, Bone Marrow Collection, Transfusion in the Dog** and **Transfusion in the Cat.** Western Veterinary Conference. Las Vegas, Nevada.

Mackin, A.J. (2008). **Feline Diabetes, Toxoplasmosis, Jaundice in the Cat**  and **Feline Asthma.** Michigan Veterinary Medical Association Seminar Series. East Lansing, Michigan.

Mackin, A.J. (2008). **Practical Transfusion Medicine in the Dog and Cat.** Veterinary Regional Referral and Specialty Group. Decatur, Alabama.

Mackin, A.J. (2008). **Case Discussions in Internal Medicine: Fever, Nasal Diseases, Hypoalbuminemia** and **Dysphagia/Regurgitation.** Shelby County/Memphis Veterinary Medical Association. Tunica, Mississippi.

Mackin, A.J. (2009). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis,   
Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Blood Disorders: Emergency Management,** and **Immune-Mediated Blood Disorders: Chronic Management.** Western Veterinary Conference. Las Vegas, Nevada.

**Continuing Education/Scientific Lectures Presented:**

**North America (Continued):**

Mackin, A.J. (2009). **Bone Marrow Collection in the Dog and Cat, Practical Blood Transfusions in the Dog, Practical Blood Transfusions in the Cat, Diagnosis of Immune-Mediated Blood Disorders (IMHA & IMT), Emergency and Chronic Management of Immune-Mediated Blood Disorders, How to Get Diagnostic Cytology Samples from the Respiratory System,** and **How to Get Diagnostic Cytology/Pathology Samples from the Urinary Tract.** Southeastern Veterinary Conference. Myrtle Beach, South Carolina.

Mackin, A.J. (2009). **Practical Blood Transfusion in the Dog, Practical Blood Transfusion in the Cat, Collection of Bone Marrow in the Dog and Cat, Problem Small Animal Anemia Cases, Immune-Mediated Hemolytic Anemia and Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, and Emergency and Chronic Management, Cytologic Diagnosis of Cancer: A Case-Based Approach,** and **Approach to the Hypoalbuminemic Patient.** Alabama Veterinary Medical Association Annual Conference. Sandestin, Florida.

Mackin, A.J. (2010). **Bleeding Disorders: Primary Hemostasis, Bleeding Disorders: Secondary Hemostasis,  
Immunosuppressive Therapy in the Dog, Immunosuppressive Therapy in the Cat, Canine Transfusion Medicine, Feline Transfusion Medicine** and **Small Animal Medicine/Hematology Techniques (Laboratory).** Western Veterinary Conference. Las Vegas, Nevada.

Mackin, A.J. (2010). **Cyclosporine and the Hemostatic System: Is the Drug Safe in IMHA Patients?** and **Case Presentation: Atypical Immune-Mediated Hemolytic Anemia in a Dog.** Twenty-eighth Annual Forum of the American College of Veterinary Internal Medicine. Anaheim, California.

Mackin, A.J. (2010). **Hypoalbuminemia, Jaundice, Anemia, Immunosuppressive Therapy** and **Chronic Management of the Diabetic Patient.** Central Veterinary Conference. Kansas City, Missouri.

Mackin, A.J. (2010). **Collection of Marrow in the Dog and Cat, Blood Transfusion in the Dog, Blood Transfusion in the Cat, Immune-Mediated Hemolytic Anemia and Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, and Emergency and Chronic Management, How to Get Diagnostic Cytology Samples from the Respiratory System,** and **How to Get Diagnostic Cytology/Pathology Samples from the Urinary Tract.** Atlantic City Veterinary Conference. Atlantic City, New Jersey.

Mackin, A.J. (2010). **Bone Marrow Collection in the Dog and Cat, Practical Blood Transfusions in the Dog, Practical Blood Transfusions in the Cat, Bleeding Disorders: Primary Hemostasis, Bleeding Disorders: Secondary Hemostasis, How to Get Diagnostic Cytology Samples from the Respiratory System, How to Get Diagnostic Cytology Samples from the Urinary Tract, Diagnosis of Immune-Mediated Hemolytic Anemia, Diagnosis of Immune-Mediated Thrombocytopenia, Emergency and Chronic Management of Immune-Mediated Blood Disorders, Hypoalbuminemia,** and **Fever of Unknown Origin.** Great Smokies Veterinary Conference, Asheville, North Carolina.

Mackin, A.J. (2010). **Approach to Anemia, Transfusion in the Dog, Transfusion in the Cat, Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Blood Disorders: Emergency Management, Immune-Mediated Blood Disorders: Chronic Management, Bone Marrow Collection in the Dog and Cat, How to Get Diagnostic Cytology Samples from the Respiratory System, How to Get Diagnostic Cytology/Pathology Samples from the Urinary Tract, Bleeding Disorders: Primary Hemostasis, Bleeding Disorders: Secondary Hemostasis,** and **Fever of Unknown Origin.** Colonial Veterinary Conference, Williamsburg, Virginia.

**Continuing Education/Scientific Lectures Presented:**

**North America (Continued):**

Mackin, A.J. (2011). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis,   
Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Blood Disorders: Emergency Management, Immune-Mediated Blood Disorders: Chronic Management, Transfusion in the Dog,** and **Transfusion in the Cat.** North Carolina Academy of Small Animal Medicine, Sanford, North Carolina.

Mackin, A.J. (2011). **Practical** **Immunosuppressive Therapy.** Tennessee River Valley Veterinary Conference, Florence, Alabama.

Mackin, A.J. (2011). **Update on the Diagnosis and Treatment of Canine Immune-Mediated Thrombocytopenia.** Twenty-ninth Annual Forum of the American College of Veterinary Internal Medicine. Denver, Colorado.

Mackin, A.J. (2011). **Anemia, Fever of Unknown Origin, Hypoalbuminemia, Jaundice, Collection of Bone Marrow in the Dog and Cat, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Blood Disorders: Emergency Management** and **Challenging Hematology and Hemostasis Cases.** Central Veterinary Conference. San Diego, California.

Mackin, A.J. (2012). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Blood Disorders: Emergency Management, Immune-Mediated Blood Disorders: Chronic Management, Canine Transfusion Medicine, Feline Transfusion Medicine** and **'Specialist' Small Animal Medicine Diagnostic and Therapeutic Techniques for the General Practitioner (Laboratory).** Western Veterinary Conference. Las Vegas, Nevada.

Mackin, A.J. (2012). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Blood Disorders: Emergency Management, Immune-Mediated Blood Disorders: Chronic Management, Primary Hemostatic Disorders** and **Secondary Hemostatic Disorders.** Chicago Veterinary Medical Association. Chicago, Illinois.

Mackin, A.J. (2012). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Blood Disorders: Emergency Management, Immune-Mediated Blood Disorders: Chronic Management, Canine Transfusion** and **Feline Transfusion.** Connecticut Veterinary Medical Association. Portland, Connecticut.

Mackin, A.J. (2013). **Immune-Mediated Blood Disorders: Emergency Management, Immune-Mediated Blood Disorders: Chronic Management, Using Cyclosporine as an Immunosuppressive Agent: What’s New?** and **Challenging Hemolytic Anemia Case Discussions (Masterclass).** North American Veterinary Conference. Orlando, Florida.

Mackin, A.J. (2013). **Canine Transfusion Medicine, Feline Transfusion Medicine, Primary Hemostatic Disorders, Secondary Hemostatic Disorders, Collection of Bone Marrow in the Dog and Cat,** and **Fever of Unknown Origin.** Western Veterinary Conference. Las Vegas, Nevada.

Mackin, A.J. (2013). **Bleeding Disorders, Practical Blood Transfusion, Immune-Mediated Blood Disorders, Case Discussion: The Case of the Bleeding Labrador,** and **Advanced Medical Procedures Laboratories (two moderated live video demonstrations to conference theatre audience).** American Animal Hospital Association Yearly Conference. Phoenix, Arizona.

**Continuing Education/Scientific Lectures Presented:**

**North America (Continued):**

Mackin, A.J. (2013). **Transfusion-Related Babesiosis: Is It a Real Issue?** Thirty-first Annual Forum of the American College of Veterinary Internal Medicine. Seattle, Washington.

Mackin, A.J. (2013). **Diagnosis of Immune-Mediated Hemolytic Anemia, Diagnosis of Immune-Mediated Thrombocytopenia, Emergency and Chronic Management of Immune-Mediated Blood Disorders, Practical Blood Transfusions in the Dog, Practical Blood Transfusions in the Cat, Bone Marrow Collection in the Dog and Cat, Bleeding Disorders: Primary Hemostasis,** and **Bleeding Disorders: Secondary Hemostasis.** Gulf Atlantic Veterinary Conference, Boca Raton, Florida.

Mackin, A.J. (2014). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Blood Disorders: Emergency Management, Immune-Mediated Blood Disorders: Chronic Management, Canine Transfusion** and **Feline Transfusion.** Western Veterinary Conference. Las Vegas, Nevada.

Mackin, A.J. (2014). **Fluid Therapy.** Mississippi Veterinary Medical Association Winter Meeting. Starkville, Mississippi.

Mackin, A.J. (2014). **Immune-Mediated Hemolytic Anemia, Immune-Mediated Thrombocytopenia, Immune-Mediated Polyarthritis, Immune-Mediated Blood Disorders: Emergency Management, Immunosuppressive Therapy: Better Use of Established Drugs,** and **Immunosuppressive Therapy: What’s New.** Colorado State University Annual Meeting. Fort Collins, Colorado.

Mackin, A.J. (2014). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Blood Disorders: Emergency Management, Bone Marrow Collection in the Dog and Cat, Immunosuppressive Therapy: Better Use of Established Drugs, Immunosuppressive Therapy: What’s New, Fever of Unknown Origin,** and **Hypoalbuminemia.** Florida Veterinary Medical Association Annual Conference. Orlando, Florida.

Mackin, A.J. (2014). **Immunosuppressive Therapy: Better Use of Established Drugs,** and **Immunosuppressive Therapy: What’s New.** Thirty-second Annual Forum of the American College of Veterinary Internal Medicine. Nashville, Tennessee.

Mackin, A.J. (2014). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Blood Disorders: Emergency Management, Immune-Mediated Polyarthritis, Immunosuppressive Therapy: Better Use of Established Drugs,** and **Immunosuppressive Therapy: What’s New.** Delaware Valley Academy of Veterinary Medicine. Plymouth Meeting, Pennsylvania.

Mackin, A.J. (2015). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Polyarthritis, Immunosuppressive Therapy: Better Use of Established Drugs,** and **Immunosuppressive Therapy: What’s New.** Indiana Veterinary Medical Association Annual Meeting. Indianapolis, Indiana.

Mackin, A.J. (2015). **Balancing Clinical Service and Teaching.** 2015 AAVC Residents’ Professional Development and Leadership Conference. Atlanta, Georgia.

**Continuing Education/Scientific Lectures Presented:**

**North America (Continued):**

Mackin, A.J. (2015). **Panel Discussion of How I Medically Manage ITP,** and **Breakfast with the Experts: New Developments in Immunosuppressive Drug Therapy.** Thirty-third Annual Forum of the American College of Veterinary Internal Medicine. Indianapolis, Indiana.

Mackin, A.J. (2015). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Polyarthritis, Immunosuppressive Therapy: Better Use of Established Drugs,** and **Immunosuppressive Therapy: What’s New.** International Veterinary Seminars. Mystic Seaport, Conecticutt.

Mackin, A.J. (2015). **Immunosuppressive Therapy: Better Use of Established Drugs, Immunosuppressive Therapy: What’s New,** and **Practical Blood Transfusion in the Dog and Cat.** Southern Veterinary Conference. Birmingham, Alabama.

Mackin, A.J. (2015). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immunosuppressive Therapy: Better Use of Established Drugs, Immunosuppressive Therapy: What’s New** and **Practical Blood Transfusion in the Dog and Cat.** Greater Baltimore Veterinary Medical Association. Baltimore, Maryland.

Mackin, A.J. (2015). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immune-Mediated Blood Disorders: Emergency Management, Bone Marrow Collection in the Dog and Cat, Immunosuppressive Therapy: Better Use of Established Drugs, Immunosuppressive Therapy: What’s New, Fever of Unknown Origin,** and **Hypoalbuminemia.** Atlantic City Veterinary Conference. Atlantic City, New Jersey.

Mackin, A.J. (2016). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immunosuppressive Therapy: Better Use of Established Drugs, Immunosuppressive Therapy: What’s New**, **Practical Blood Transfusion in the Dog,** and **Practical Blood Transfusion in the Cat.** MidWest Veterinary Conference. Columbus, Ohio.

Mackin, A.J. (2016). **Advances in the Treatment of Immune-Mediated and Hematologic Disorders: Practical Blood Transfusion in the Dog and Cat, Immunosuppressive Therapy: Better Use of Established Drugs, and** **Immunosuppressive Therapy: What’s New.** Texas Veterinary Medical Association Annual Conference, San Marcos, Texas.

Mackin, A.J. (2016). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immunosuppressive Therapy: Better Use of Established Drugs** and  **Immunosuppressive Therapy: What’s New.** Richmond Academy of Veterinary Medicine. Richmond, Virginia.

Mackin, A.J. (2016). **Immunosuppressive Therapy in Dogs and Cats: Rational Use of Established Drugs, Immunosuppressive Therapy in Dogs and Cats: Recent Drug Development** and **Late-Breaking Research:** **Development of Biomarker Assays for the Pharmacodynamic Evaluation of Mycophenolate in the Dog.** Thirty-fourth Annual Forum of the American College of Veterinary Internal Medicine. Denver, Colorado.

Mackin, A.J. (2016). **Transfusion Reaction in a Cat.** Association of Veterinary Hematology and Transfusion Medicine Special Interest Group Annual Meeting, ACVIM Forum. Denver, Colorado.

**Continuing Education/Scientific Lectures Presented:**

**North America (Continued):**

Mackin, A.J. (2016). **Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immunosuppressive Therapy: Better Use of Established Drugs, Immunosuppressive Therapy: What’s New, Immune-Mediated Polyarthritis, Practical Blood Transfusion in the Dog, Practical Blood Transfusion in the Cat,** and **Hypoalbuminemia.** Pacific Veterinary Conference. San Francisco, California.

Mackin, A.J. (2016). **Immune-Mediated Polyarthritis, Immune-Mediated Hemolytic Anemia: Pathophysiology and Diagnosis, Immune-Mediated Thrombocytopenia: Pathophysiology and Diagnosis, Immunosuppressive Therapy: Better Use of Established Drugs,** and **Immunosuppressive Therapy: What’s New.** International Veterinary Seminars. Sedona, Arizona.

Mackin, A.J. (2017). **Immunosuppressive Therapy: Established Drugs,** and **Immunosuppressive Therapy: What’s New.** New York City Veterinary Medical Association. New York, New York.

Mackin, A.J. (2017). **Immunosuppressive Therapy.** Animal Medical Center. New York, New York.

Mackin, A.J. (2017). **Immunosuppressive Therapy.** North American Veterinary Conference. Orlando, Florida.

Mackin, A.J. (2017). **Immunosuppressive Therapy.** Western Veterinary Conference. Las Vegas, Nevada.

Mackin, A.J. (2017). **Balancing Clinical Service and Teaching.** 2017 AAVC Residents’ Professional Development and Leadership Conference. Atlanta, Georgia.

Mackin, A.J. (2017). **Individualizing Drug Therapy: Advances in the Pharmacodynamic Monitoring of Immunosuppressive Agents.** Thirty-fifth Annual Forum of the American College of Veterinary Internal Medicine. National Harbor, Maryland.

Mackin, A.J. (2017). **Incompatible Crossmatch in a Dog with IMHA.** Association of Veterinary Hematology and Transfusion Medicine Special Interest Group Annual Meeting, ACVIM Forum. National Harbor, Maryland.

Mackin, A.J. (2017). **Immune-Mediated Hemolytic Anemia, Immune-Mediated Thrombocytopenia, Immune-Mediated Blood Disorders: Emergency Management,** and **Immune-Mediated Blood Disorders: Chronic Management.** Southern Veterinary Conference. Birmingham, Alabama.

Mackin, A.J. (2017). **Practical Blood Transfusion in the Dog, Practical Blood Transfusion in the Cat, Immunosuppressive Therapy: Established Drugs, Immunosuppressive Therapy: What’s New,** and **Immune-Mediated Hemolytic Anemia.** Canada West Symposium. Vancouver, British Columbia.

Mackin, A.J. (2017). **Immune-Mediated Hemolytic Anemia** and **Latest Advances in Immunosuppressive Therapy.** American College of Veterinary Internal Medicine Advanced Continuing Education Course in Hematology and Immunology. Las Vegas, Nevada.

Mackin, A.J. (2017). **Immune-Mediated Hemolytic Anemia, Immune-Mediated Thrombocytopenia, Immunosuppressive Therapy: Better Use of Established Drugs, Immunosuppressive Therapy: What’s New, Practical Blood Transfusion in the Dog, Practical Blood Transfusion in the Cat, Bone Marrow Collection in the Dog and Cat, Immune-Mediated Polyarthritis, Hypoalbuminemia** and **Jaundice.**The Gulf-Atlantic Veterinary Conference. Boca Raton, Florida.

**Continuing Education/Scientific Lectures Presented:**

**North America (Continued):**

Mackin, A.J. (2017). **Immune-Mediated Hemolytic Anemia, Immune-Mediated Thrombocytopenia, Immunosuppressive Therapy: Better Use of Established Drugs** and  **Immunosuppressive Therapy: What’s New.** DC Academy of Veterinary Medicine. Washington, DC.

Mackin, A.J. (2018). **Immune-Mediated Hemolytic Anemia, Immune-Mediated Thrombocytopenia, Immune-Mediated Blood Disorders: Emergency Management, Immune-Mediated Blood Disorders: Chronic Management, Immune-Mediated Polyarthritis, Bone Marrow Collection in the Dog and Cat, Fever of Unknown Origin,** and **Hypoalbuminemia.** Florida Veterinary Medical Association Annual Conference. Tampa, Florida.

Mackin, A.J. (2018). **Approach to** **Immune-Mediated Hemolytic Anemia, Approach to Immune-Mediated Thrombocytopenia, Immunosuppressive Therapy: Better Use of Established Drugs, Immunosuppressive Therapy: What’s New, Practical Blood Transfusion in the Dog,** and **Practical Blood Transfusion in the Cat.** Massachusetts Veterinary Medical Association Spring Meeting. Boston, Massachusetts.

Mackin, A.J. (2018). **Azathioprine vs Mycophenolate: Which Is the Better Immunosuppressive Drug?** Thirty-sixth Annual Forum of the American College of Veterinary Internal Medicine. Seattle, Washington.

Swann, J., Garden, O., Fellman, C., Glanemann, B., Goggs, R., LeVine, D., Mackin, A., and Whitley, N. (2018).  **ACVIM Consensus Statement on Treatment of Dogs with Immune-Mediated Hemolytic Anemia.**

Thirty-sixth Annual Forum of the American College of Veterinary Internal Medicine. Seattle, Washington.

Mackin, A.J. (2018). **Approach to** **Immune-Mediated Hemolytic Anemia, Approach to Immune-Mediated Thrombocytopenia, Immunosuppressive Therapy: Better Use of Established Drugs,** and **Immunosuppressive Therapy: What’s New.** Saskatchewan Veterinary Medical Association Annual Meeting. Saskatoon, Saskatchewan.

Mackin, A.J. (2018). **Approach to** **Immune-Mediated Hemolytic Anemia, Immunosuppressive Therapy: Better Use of Established Drugs,** and **Immunosuppressive Therapy: What’s New.** Genesee Valley Veterinary Medical Association Annual Meeting. Rochester, New York.

Mackin, A.J. (2018). **Immune-Mediated Hemolytic Anemia, Immune-Mediated Thrombocytopenia, Immunosuppressive Therapy: Better Use of Established Drugs, Immunosuppressive Therapy: What’s New, Immune-Mediated Polyarthritis, Practical Blood Transfusion in the Dog, Practical Blood Transfusion in the Cat,** and **Bone Marrow Collection.** Central Florida Academy of Veterinary Medicine. Orlando, Florida.

Mackin, A.J. (2019). **Is It Infectious or Immune-Mediated?** (shared with Dr. Ed Breitschwerdt), **Diagnosis of** **Immune-Mediated Hemolytic Anemia, Diagnosis of Immune-Mediated Thrombocytopenia, Immune-Mediated Thrombocytopenia: What To Do in the First Hour, Anticoagulant Rodenticide Poisoning; What To Do in the First Hour,** and **Transfusion-Related Complications (Rounds).** VMX. Orlando, Florida.

Mackin, A.J. (2019). **Chronic Renal Failure.** Animal Emergency and Referral Center Continuing Education Program. Pearl, Mississippi.

Mackin, A.J. (2019). **Balancing Clinical Service and Teaching.** 2019 AAVC Residents’ Professional Development and Leadership Conference. Atlanta, Georgia.

**Continuing Education/Scientific Lectures Presented:**

**North America (Continued):**

Mackin, A.J. (2019). **Infection and Immunosuppressive Therapy.** Thirty-seventh Annual Forum of the American College of Veterinary Internal Medicine. Phoenix, Arizona.

Mackin, A.J. (2019). **The Internship “Explosion”.** Teaching Special Interest Group,Thirty-seventh Annual Forum of the American College of Veterinary Internal Medicine. Phoenix, Arizona.

Mackin, A.J., and Thomason, J.M. (2019). **Fundamentals of Veterinary Endoscopy.** Steris Practitioner Lecture and Teaching Laboratory. Birmingham, Alabama.

Mackin, A.J, and Thomason, J.M. (2019). **Immune-Mediated Hemolytic Anemia, Immunosuppressive Therapy: Better Use of Established Drugs, Immunosuppressive Therapy: What’s New, Practical Blood Transfusion in the Dog,** and **Practical Blood Transfusion in the Cat.** Emerald Coast Veterinary Conference. San Destin, Florida.

Mackin, A.J. (2019). **Anticoagulant Rodenticide Poisoning,** and **Immune-Mediated Polyarthritis.** Southern Veterinary Conference. Birmingham, Alabama.

Mackin, A.J., Cade, J. and Sullivant, A. (20190. **Practitioner Laboratory: “5 Minute, 5 Dollar” Tests; "Specialist" Diagnostic Techniques That Are Actually Easy and Inexpensive.** Southern Veterinary Conference. Birmingham, Alabama.

Mackin, A.J., and Thomason, J.M. (2019). **Fundamentals of Veterinary Endoscopy.** Steris Practitioner Lecture and Teaching Laboratory. Birmingham, Alabama.

Mackin, A.J. (2019). **Hypoalbuminemia, Fever of Unknown Origin, Immunosuppressive Therapy: Better Use of Established Drugs,** and **Immunosuppressive Therapy: What’s New.** Golden Triangle Veterinary Association. Kitchener, Ontario.

Mackin, A.J., and Thomason, J.M. (2019). **Fundamentals of Veterinary Endoscopy.** Steris Practitioner Lecture and Teaching Laboratory, Kentucky Veterinary Medical Association. Louisville, Kentucky.

Mackin, A.J., and Thomason, J.M. (2019). **Fundamentals of Veterinary Endoscopy.** Steris Practitioner Lecture and Teaching Laboratory, South Carolina Association of Veterinarians Annual Conference. Charleston, South Carolina.

Mackin, A.J., and Thomason, J.M. (2020). **Fundamentals of Veterinary Endoscopy.** Steris Practitioner Lecture and Teaching Laboratory. Fort Lauderdale, Florida.

**Information Technology:**

Mackin, A.J. (1997). **Advances in the Management of Canine and Feline Glomerulopathies.** CD-ROM program based on lecture, produced in conjunction with BSAVA publications.

Mackin, A.J. (1997). **Chronic Renal Failure in the Cat.** Self-teaching CD-ROM program based on clinical case material, designed for veterinary students and veterinarians, produced in collaboration with WALTHAM.

Vasilopulos, R.J., and Mackin, A.J. (2002). **Immune-Mediated Hemolytic Anemia.** On-line book chapter for Associate program, Veterinary Information Network.

Vasilopulos, R.J., and Mackin, A.J. (2002). **Immune-Mediated Thrombocytopenia.** On-line book chapter for Associate program, Veterinary Information Network.

Mackin, A.J. (2008). **Small Animal Internal Medicine Service.** Originating/managing author of informational web-site outlining MSU-CVM service group (http://www.cvm.msstate.edu/ahc/internal\_medicine.html).

Mackin, A.J. (2009). **Internships/Residencies.** Originating/managing author of informational web-site outlining MSU-CVM house officer program (http://www.cvm.msstate.edu/ahc/internships.html).

Mackin, A.J. (2012). **The Case of the Bleeding Labrador.** On-line case presentation/continuing education course for American Animal Hospital Association ‘Solve-It’ series.

Mackin, A.J. (2013). **Advanced Medical Procedures Laboratories**. Two moderated live video demonstrations to conference theatre audience, archived and provided on-line by American Animal Hospital Association.

Mackin, A.J. (2016). **Practical Use of Cyclosporine.** On-line Rounds discussion, Veterinary Information Network.

**Press Communications:**

Mackin, A.J. **Pet Care in the Summer.** Starkville Daily News. March, 1999.

Mackin, A.J. **Feeding Your Dog and Cat.** Starkville Daily News. April, 1999.

Mackin, A.J. **Premium vs Standard Pet Foods.** Starkville Daily News. April, 1999.

Mackin, A.J. **Most Pet Foods About the Same.** Brookhaven Daily Leader. April, 1999.

Mackin, A.J. **Best Dog Food?** The Southern Herald. April, 1999.

Mackin, A.J. **Deafness in Hunting Dogs.** The Clarion Leger. May, 2002.

Mackin, A.J. **Deafness in Hunting Dogs.** MSU Campus Radio. May, 2002.

Mackin, A.J. **Shared Human/Animal Diseases.** WCBI TV News. July, 2002.

Mackin, A.J. **Obesity in Dogs.** WCBI TV News. September, 2002.

Mackin, A.J. **Health Problems in Brachycephalic Dogs.** Dog Fancy. February, 2003.

Mackin, A.J. **MSU Critical Care Unit Serves Veterinary Needs.** Clarion Leger. April, 2003.

Mackin, A.J. **Veterinary Intern/Resident Match Program.** MSU Agricultural Communications. April, 2003.

Mackin, A.J. **Veterinary Scopes.** MSU Agricultural Communications. January, 2005.

Mackin, A.J. **Veterinary Intern/Resident Match Program.** MSU Agricultural Communications. April, 2005.

Mackin, A.J. **Veterinary Intern/Resident Match Program.** MSU Agricultural Communications. April, 2006.

Mackin, A.J. **Veterinary Intern/Resident Match Program.** MSU Agricultural Communications. April, 2007.

Mackin, A.J. **Veterinary Intern/Resident Match Program.** MSU Agricultural Communications. April, 2008.

Mackin, A.J. **Donor Dogs Give the Gift of Life.** MSN Health & Fitness. April, 2008.  
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Mackin, A.J. **The Match Program at Mississippi State.** MSU Farm & Family radio program. August & September, 2009

Mackin, A.J. **Specialty Training Programs.** In ‘MSU College of Veterinary Medicine’ Special Feature,   
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Mackin, A.J. **CVM Pet Care Research Can Help Human Health.** MSU Agricultural Communications Animal Health News. June, 2010.

Mackin, A.J. **Heart Murmurs in Pets.**  In ‘Pet Pointers’, Mississippi State University television program. September, 2011.

Mackin, A.J. **Heartworms in Cats and Dogs.** In ‘Pet Pointers’, Mississippi State University television program. September, 2011.

Mackin, A.J. **Fleas and Ticks in Cats and Dogs.**  In ‘Pet Pointers’, Mississippi State University television program. September, 2011.

Mackin, A.J. **Anal Sac Problems.**  In ‘Pet Pointers’, Mississippi State University television program. October, 2011.

Mackin, A.J. **Wet and Drippy Noses.**  In ‘Pet Pointers’, Mississippi State University television program. October, 2011.

Mackin, A.J. **Nail Care.**  In ‘Pet Pointers’, Mississippi State University television program. October, 2011.

Archer, T., Brinkman, E., Mackin, A. **Live CVM Imaging Allows Noninvasive Intervention.** Pegasus Press. May, 2012 (also picked up by Starkville Daily News).

Mackin, A.J. **Toxoplasmosis: Human Health Issues.** In the Gallo Radio Show, Super Talk Mississippi Radio Network. September, 2012.

Mackin, A.J. **Make Price Paramount When Choosing Veterinary School.** Article, VIN News Service. May, 2016.

Mackin, A.J. **Is A Cure For IMHA Near?** Article,Veterinary Practice News. April, 2018.

**Professional Development**

* Participant (1995) in Scottish universities Teaching, Learning and Assessment course.
* Participant (1998) in Scholarly Writing Workshop, Mississippi State University.
* Participant (1998) in Newer Approaches to Education, Southern Illinois University.
* Participant (1999) in Research Administration Workshop, Mississippi State University.
* Participant (1999) in Write Winning Grants, one day course, Mississippi State University.
* Participant (1999) in Grant Application Writers' Workshop, two day course, MSU.
* Participant (1999) in New Faculty Research Orientation, half day course, MSU.
* Participant (2003) in PAR Skills Leadership Seminar, two day course, MSU.
* Participant (2008-2009) in MSU Faculty Leadership Program, semester long course, MSU.
* Participant (2010-2011) in MSU Grantwriters Course, half-year course, MSU.
* Participant (2015) in AAVC Department Heads and Hospital Directors Meeting, Atlanta.
* Participant (2015) in SEC Travel Grant MSU/Auburn Pharmacokinetic Research collaborative visit
* Participant (2016) in SEC Travel Grant MSU/University of Tennessee Research collaborative visit
* Participant (2016) in Mississippi Office of Homeland Security Incident Command System training program, certified in ICS 700-100-200
* Participant (2017) in AAVC Department Heads and Hospital Directors Meeting, Atlanta.
* Participant (2017) in MSU Academic Administrator Training Course, MSU.
* Participant (2018) in SEC Travel Grant MSU/Texas A&M Research collaborative visit
* Participant (2018) in AAVC Department Heads and Hospital Directors Meeting, Atlanta.
* Participant (2019) in AAVC Department Heads and Hospital Directors Meeting, Atlanta.

**Scholarships:**

**1990:** Barrenger Overseas Veterinary Scholarship (University of Melbourne)

University of Guelph Visa and Graduate Scholarships

**1991:** Natasha Fellowship

Gaines Pet Food Nutrition Fellowship

**1993:** University of Guelph Small Animal Graduate Research Fellowship

Dr. Ira Zaslow Emergency Animal Care Scholarship

University of Guelph Graduate Scholarship

**External Interests:**

**2002-2012:** Coach, Recreational (DIII) Soccer, Starkville Soccer Association, U6 to U12 boys teams.

**2008-2009:** Manager, Challenge (DII) Soccer, Starkville Soccer Association, U12 boys team.

**2011-2015:** Manager, Select (DI) Soccer, Starkville Soccer Association, U15 to U18 boys teams, including U16 Boys Mississippi State Champion team.

**2014:** Manager, Mississippi/Arkansas Olympic Development Program Soccer Team.