

**Research Abstract Program of the
2009ACVIM Forum/Canadian Veterinary Medical Association Convention
Montréal, Québec, June 3 – June 6, 2009**

Index of Abstracts

ORAL PRESENTATIONS – Thursday, June 4

Time	#	Presenting Author	Abstract Title
SMALL ANIMAL – CARDIOLOGY**			
9:00 am	1	Allison Heaney	Use of Polymerase Chain Reaction to Detect Bacteremia in Dogs with Bacterial Endocarditis
9:15 am	2	Andrea Lantis	The Effect of Furosemide and Pimobendan on the Renin-Angiotensin-Aldosterone System (RAAS) in Dogs
9:30 am	3	Lisa Keller	Assessment of Change in Left Ventricular Systolic Function by Tissue Doppler Imaging Methods after Closure of Patent Ductus Arteriosus in Dogs
9:45 am	4	Giosi Farace	Correlation of N-Terminal Prohormone Brain Natriuretic Peptide with Left Ventricular Outflow Tract in Dogs with Sub Aortic Stenosis
<i>BREAK</i>			
10:30 am	5	Ashley Saunders	NT-proBNP Concentrations in Canine Congenital Heart Disease
10:45 am	6	Gretchen Singletary	Utility of NT-proBNP Assay to Detect Occult Dilated Cardiomyopathy in Doberman Pinschers
11:00 am	7	Gerhard Wess	Evaluation of NT-proBNP in the Diagnosis of Various Stages of Dilated Cardiomyopathy in Doberman Pinschers
11:15 am	8	Sarah Achen	Serial Evaluation of NT-proBNP in Dogs with CHF Predicts Clinical Score and the Presence or Absence of Radiographic Pulmonary Edema
11:30 am	9	Gerhard Wess	The Utility of NT-proBNP to Detect Early Stages of Hypertrophic Cardiomyopathy in Cats and to Differentiate Disease Stages
11:45 am	10	Giosi Farace	Pulmonary Hypertension and N-Terminal Prohormone Brain Natriuretic Peptide in Dogs
12:00 pm	11	Kathryn Meurs	Genome-Wide Association Identifies a Mutation for Arrhythmogenic Right Ventricular Cardiomyopathy in the Boxer Dog
12:15 pm	12	Eva Oxford	Phenotypic Differences in the Ultrastructure of Cardiomyocytes from Boxer Dogs Afflicted with Arrhythmogenic Right Ventricular Cardiomyopathy (ARVC)
<i>**Also see Cardiology abstracts 61 - 73 (Thursday, June 4, 2:15 pm – 6:00 pm)</i>			
SMALL ANIMAL – NEPHROLOGY/UROLOGY			
9:00 am	13	Barrak Pressler	<i>In vivo</i> Determination of Canine Cystolith Mineral Composition Using Computed Tomography-Generated Hounsfield Units
9:15 am	14	Allyson Berent	Ureteral Stenting for Feline Ureterolithiasis: Technical and Clinical Outcomes
9:30 am	15	Allyson Berent	The Use of a Percutaneously Controlled Hydraulic Occluder for the Treatment of Urethral Sphincter Mechanism Incompetence in 11 Dogs and 1 Cat
9:45 am	16	Michael Wood	Development of a Ussing Chamber Model for Studying the Canine Urothelial Response to Infection
<i>BREAK</i>			
10:30 am	17	Christine Wu	Urodynamic Evaluation of Cats with Feline Interstitial Cystitis (FIC)
10:45 am	18	Dennis Chew	Randomized, Placebo-controlled Clinical Trial of Pentosan Polysulfate Sodium for Treatment of Feline Interstitial (Idiopathic) Cystitis
11:00 am	19	Herve Lefebvre	Comparison of Plasma Clearance of Exogenous Creatinine and Iohexol in a Canine Population
11:15 am	20	Andrea Zatelli	Effects of Supplementation with Amino Acids in Dogs with Glomerulonephritis
11:30 am	21	Karen Hilling	Documentation of Hypercoagulability in Protein-Losing Nephropathy via Thromboelastography in 10 Dogs
11:45 am	22	Mark Acierno	Measuring Level of Agreement between Directly Measured Blood Pressure and Values Produced by Oscillometric Units in Cats
12:00 pm	23	Carly Bloom	Pharmacokinetics and Cardiovascular Effects of Intravenous Fenoldopam in Healthy Awake Dogs

Boldface type indicates presentation by award eligible resident

Presentation times are subject to change

12:15 pm 24 Bart Maddens Urinary Immunoglobulin G, C-Reactive Protein and Retinol Binding Protein as Candidate Early Biomarkers for Renal Dysfunction in Dogs with Pyometra (*ECVIM Award Winner*)

SMALL ANIMAL – HEMATOLOGY

9:00 am 25 Stephanie Smith Whole Bloodthromboelastometry (TEM) is Related to Cell Counts and Plasma Coagulation Tests in Healthy Dogs

9:15 am 26 Lara Rose Effect of Canine Hyperadrenocorticism on Thrombelastography Parameters

9:30 am 27 John Thomason Effects of Cyclosporine on Canine Platelet Procoagulant Activity

9:45 am 28 Sarah Helmond Treatment of Canine Immune-Mediated Hemolytic Anemia with Individually Adjusted Heparin Dosing: A Pilot Study

BREAK

10:30 am 29 Elizabeth Orcutt Comparison of Individually Monitored Unfractionated Heparin Versus Low-Dose Aspirin on Survival of Dogs with Immune Mediated Hemolytic Anemia

10:45 am 30 Kristopher Sharpe Platelet Impedance Aggregometry in Clinically Healthy Dogs with and without Ultralow-Dose Aspirin

11:00 am 31 Paulo Vilar Saavedra Hemostatic Effects of Cryoprecipitate in Dogs with Disseminated Intravascular Coagulation

11:15 am 32 Rebecca Kessler Extended Canine Blood Typing by Gel Column Technique

11:30 am 33 Rebecca Kessler *Pseudomonas fluorescens* Contamination of Canine and Feline Packed Red Blood Cell Units

SMALL ANIMAL – OTHER

11:45 am 34 Mads Kjelgaard-Hansen Combination of Inflammatory and Hemostatic Markers in Mortality Model for Critically Ill Canine ICU Patients Significantly Improves Efficacy

12:00 pm 35 Bianka Schulz Investigation of Doxycycline-Related Side Effects in Dogs

SMALL ANIMAL – PHARMACOLOGY

12:15 pm 36 Fabrice Thoulon Metabolism and Excretion of Oral Meloxicam in the Cat

SMALL ANIMAL – ENDOCRINOLOGY

9:00 am 37 Arnon Gal Cloning of the Calcium-Sensing Receptor from the Feline Parathyroid Gland

9:15 am 38 Eric Zini Hypertriglyceridemia does not Impair Whole Body Insulin Sensitivity in Cats, Possibly Through Increased Circulating Adiponectin

9:30 am 39 Eric Zini Role of Hyperglycemia in the Pathogenesis of Pancreatitis in Cats

9:45 am 40 Kirk Sears Use of Lispro Insulin for Treatment of Dogs with Diabetic Ketoacidosis

BREAK

10:30 am 41 Kirsten Roomp Evaluation of Detemir in Diabetic Cats Managed with a Protocol for Intensive Blood Glucose Control

10:45 am 42 Andrew McGraw Determination of the Concentrations of Trilostane and Ketotrilostane that Inhibit *Ex Vivo* Synthesis of Cortisol in Canine Adrenal Tissues

11:00 am 43 Ghita Benchekroun Plasma ACTH Precursors (Pro-OpioMelanoCortin and Pro-Adrenocorticotropin) in Cats with Hyperadrenocorticism

11:15 am 44 Katharine Lunn Endocrine Function in Cats after Stereotactic Radiosurgery Treatment for Acromegaly

11:30 am 45 John Rossmeisl Blood-Brain-Barrier Disruption in Chronic Canine Experimental Hypothyroidism

11:45 am 46 Jennifer Wakeling Induction of Aryl Hydrocarbon Receptors in Cats

12:00 pm 47 Audrey Cook Prevalence of Hypocobalaminemia in Cats with Hyperthyroidism

12:15 pm 48 Lisa Morrow Hypertension in Hyperthyroid Cats: Prevalence, Incidence and Predictors of its Development

EQUINE**

9:00 am 49 Natália Rodrigues Expression of Cyclooxygenase Isoforms in Equine Gastric Ulcers

9:15 am 50 Kati Vainio Primary Gastric Impaction in Horses: A Retrospective Study of 22 Cases (2005-2008)

9:30 am 51 Frank Andrews Effect of Volatile Fatty Acid Mixes on Equine Nonglandular Mucosa Bioelectric Properties: Pathogenesis of Gastric Ulcers in Horses

9:45 am 52 Peggy Moreau Study of the Variability of Endoscopic Duodenal Biopsies in Healthy Horses and in Heaves-Affected Horses Fed with Different Diets

BREAK

10:30 am	53	Emilie Setlakwe	Sub-Epithelial Fibrosis is Present in the Peripheral Airways of Heaves-Affected Horses
10:45 am	54	Modest Vengust	Furosemide does not Affect Transvascular Fluid Fluxes across the Lung in Exercising Horses
11:00 am	55	James Nicol	Partitioning of Pulmonary Resistance in Horses
11:15 am	56	Julie Dauvillier	Effects of Prolonged Inhaled Corticosteroid Treatment on Cell-Mediated Immunity in Horses
11:30 am	57	Lutz Goehring	EHV-1 Positive PBMC Fractions During Cell-Associated Viremia following Experimental Infection
11:45 am	58	Sonya Wilsterman	The Efficacy of Nitazoxanide as an Antiviral Agent for the Treatment of EHV-1 Infection in Horses
12:00 pm	59	Alexandra Draper	Repeatability and Reproducibility of Transabdominal Ultrasonographic Renal Loci and Dimensions in Thoroughbred Horses
12:15 pm	60	Gemma Tyner	Renal Biopsies in Horses: A Retrospective Study of 71 Cases

***Also see Equine abstracts 116 - 129 (Thursday, June 4, 2:15 pm - 6:15 pm) and Equine abstracts 142 - 143 (Thursday, June 4, 5:45 pm - 6:15 pm)*

SMALL ANIMAL – CARDIOLOGY**

2:15 pm	61	Caryn Reynolds	Owner Perceptions and Priorities Regarding Quality of Life and Quantity of Life in Cats with Heart Disease
2:30 pm	62	Sara Bordelon	Validation of Platelet Factor 4, Soluble P-Selectin, β-thromboglobulin, and 11-dehydro-thromboxane B2 ELISAs in the Feline Population
2:45 pm	63	Karl Jandrey	Plasma PECAM-1 and Endothelin-1 Concentrations are Elevated in Cats with Hypertrophic Cardiomyopathy
3:00 pm	64	Francesco Porciello	Association of Hypertrophic Cardiomyopathy Phenotype and Genotype in Italian Maine Coon Cats
3:15 pm	65	Denise Schwartz	Pulsed Tissue Doppler Identifies Preclinical Left Ventricular Myocardial Dysfunction in Obese Dogs
3:30 pm	66	Sarah Scruggs	Serotonin Transporter Expression Is Locally Down-Regulated in Canine Degenerative Mitral Valves
3:45 pm	67	Sophia Moesgaard	B-Type Natriuretic Peptide and Cyclic Guanosine Monophosphate Levels Increase whereas Nitric Oxide Bioavailability Decreases with Increasing Degree of Myxomatous Mitral Valve Disease

BREAK

4:30 pm	68	Adonia Hsu	Trans-Thoracic Three-Dimensional Echocardiographic Evaluation of Normal Canine Heart Valves
4:45 pm	69	Ingrid Ljungvall	Cardiac Troponin-I is Associated with Severity of Myxomatous Mitral Valve Disease, Age, Heart Rate and C-Reactive Protein in Dogs
5:00 pm	70	Carl Kirker-Head	Evaluation of a Minimally Invasive Treatment for Mitral Valve Regurgitation
5:15 pm	71	Sonya Gordon	Caval Syndrome; Outcome in 42 Dogs
5:30 pm	72	Brian Maran	Modulation of Inflammatory and Oxidative Stress Markers in Coronary Artery Smooth Muscle Cell Model
5:45 pm	73	Barthel Schmelting	High Definition Oscillometry: A Novel, Non-Invasive Approach for Precise Blood Pressure Determination and Cardiovascular Assessment in Old World and New World Monkeys

***Also see Cardiology abstracts 1 - 12 (Thursday, June 4, 9:00 am - 12:30 pm)*

SMALL ANIMAL – NEUROLOGY

2:15 pm	74	Luisa De Risio	Prevalence, Heritability and Genetic Correlations of Congenital Sensorineural Deafness and Pigmentation Phenotypes in 4143 Border Collies
2:30 pm	75	Fiona James	Investigation of a New Electroencephalography (EEG) Electrode in Sedated and Awake Dogs
2:45 pm	76	Simon Platt	Cerebrospinal Fluid Neurotransmitter Concentrations in Dogs with Ischemic Infarction of the Brain
3:00 pm	77	Ronaldo da Costa	Risk Factors for Post-Myelographic Seizures in Dogs – 503 Cases
3:15 pm	78	John Rossmeisl	Effects of Palliative Pharmacotherapy on Survival and Quality of Life in 50 Dogs with Primary Intracranial Neoplasms
3:30 pm	79	Sarah Moore	The Pharmacokinetics of Levetiracetam in Dogs Concurrently Receiving Phenobarbital
3:45 pm	80	Liran Tzipory	Metabolism and Action of Nelarabine in Glioma Cell Lines

BREAK

4:30 pm	81	Veronika Stein	Expression of Matrix Metalloproteinases and Reck in Microglial Cells in Different Intracranial Diseases
4:45 pm	82	Steven De Decker	Low Field Magnetic Resonance Imaging (MRI) Findings of the Caudal Cervical Region in Clinically Normal Doberman Pinschers and Foxhounds
5:00 pm	83	Ronaldo da Costa	Computed Tomographic Findings In Large and Giant Breed Dogs with Cervical Spondylomyelopathy: 58 Cases
5:15 pm	84	Filippo Adamo	Cervical Arthroplasty in Dogs with Disc Associated Caudal Cervical Spondylomyelopathy and Cervical Disc Herniation: Preliminary Study in Two Cases
5:30 pm	85	Jenny Scarano	F Ratio of the Sciatic and Ulnar Nerve in Dogs
5:45 pm	86	G. Diane Shelton	Peripheral Nerve Pathology in Canine Degenerative Myelopathy with Mutation in Superoxide Dismutase 1 Gene
6:00 pm	87	Joan Coates	An SOD1 Mutation Associated with Degenerative Myelopathy Occurs in Many Dog Breeds

SMALL ANIMAL – ONCOLOGY

2:15 pm	88	Karen Jackson	Lymphocyte Counts and Circulating Lymphoblasts in Canine Lymphoma Patients
2:30 pm	89	Gina Michels	Pharmacokinetic Properties of Toceranib Phosphate (Palladia™, SU11654), A Novel Tyrosine Kinase Inhibitor, in Laboratory Dogs and Dogs with Mast Cell Tumors
2:45 pm	90	Rachel Dean	Feline Injection Site Sarcomas in the United Kingdom: One Hundred and Fifty Seven Cases
3:00 pm	91	Christine Kempf	Nonviral Gene Transfer of the Feline Cytokine Genes IL-2, IFN γ and GM-CSF as Adjuvant Immunotherapy of the Feline Fibrosarcoma
3:15 pm	92	Melani Fork	Immunohistochemical Differentiation of Canine Prostatic Carcinoma
3:30 pm	93	Chick Weisse	Feasibility and Safety Associated with Selective and Superselective Intra-Arterial Carboplatin +/- Meloxicam Delivery for Urothelial Tumors in Dogs
3:45 pm	94	Marisa Ames	Effect of Intracavitary Chemotherapy as Treatment of Recurrent Pleural Effusion Following Pericardiectomy: Eight Cases

SMALL ANIMAL – NUTRITION/METABOLISM

4:30 pm	95	Matthew Beal	Technique for Fluoroscopic Nasojejun Tube Placement in Dogs
4:45 pm	96	Matthew Beal	Technique for Percutaneous Radiologic Gastrojejunostomy in the Dog
5:00 pm	97	John Bauer	Dietary γ -linolenic Acid Supports Arachidonic Acid Enrichment of Feline Red Blood Cell Membranes
5:15 pm	98	Alexander German	Adipokine Expression and Secretion by Canine Adipocytes: Stimulation of Inflammatory Adipokine Production by LPS and TNF α
5:30 pm	99	Anne Chauvet	Exercise and Active Client Motivation Improve Rate of Weight Loss in Obese Dogs
5:45 pm	100	Vincent Biourge	Comparison of Dietary Strategies on the Perception of Hunger During a Field Feline Weight Loss Program
6:00 pm	101	Joana Nery	Influence of Dietary Protein Source and Content on Fecal Quality and Gene Expression of Water and Electrolyte Transporters of Colon in Miniature Poodles and German Shepherds

SMALL ANIMAL – INFECTIOUS DISEASE

2:15 pm	102	Iain Keir	Influence of Empirical Antimicrobial Choice on Outcome following Septic Peritonitis in Dogs
2:30 pm	103	Dawn Boothe	Detection of Fluoroquinolone Resistance Level in Clinical Canine and Feline <i>Escherichia coli</i> Pathogens Using Rapid and Early Real-Time PCR Assay
2:45 pm	104	Ashley Cruse	Evaluation of Potential Biomarkers for Canine Sepsis
3:00 pm	105	Barbara Kohn	Pulmonary Manifestation in Canine Leptospirosis
3:15 pm	106	Susan Little	Seroprevalence of FeLV and FIV in Canada
3:30 pm	107	Desiree Kruse	Prognostic Factors in Cats with Feline Panleucopenia
3:45 pm	108	Elizabeth Lechner	Prevalence of Protective Antibody Titers for Distemper Virus and Parvovirus in Dogs Entering a Florida Animal Shelter

BREAK

4:30 pm	109	Melissa Beall	Detection of Canine Parvovirus Type 2c by a Commercially Available In-house Rapid Test
4:45 pm	110	Stephanie Janeczko	Prevalence of, Risk Factors for, and Assemblage Types of <i>Giardia</i> Infection in Cats Housed in an Animal Shelter

5:00 pm	111	Jody Gookin	Assessment of Reproductive Tract Disease in Cats at Risk for Enteric <i>Tritrichomonas foetus</i> Infection
5:15 pm	112	Matt Eberts	Use of Snap®4Dx® Assay to Monitor Tick-Borne Infection in Minnesota: A 4-Year Study
5:30 pm	113	Michael Lappin	Prevalence of Hemoplasma DNA in Field-Caught Mosquitoes in Colorado
5:45 pm	114	Christina Bradbury	Topical Imidacloprid and Moxidectin Prevents Flea Transmission of <i>Bartonella henselae</i> in Cats
6:00 pm	115	Katrin Hartmann	Outcome and Prognostic Factors in Dogs with Canine Leishmaniasis in a Non-Endemic Country

EQUINE**

2:15 pm	116	Mary Rose Paradis	The Use of Computer Tomography in the Diagnosis of Septic Arthritis/Osteomyelitis in the Neonatal Foal
2:30 pm	117	Rosa Barsnick	Endocrine Energy Response in Septic Foals: Insulin, Leptin and Adiponectin
2:45 pm	118	Dominic Dawson	Opsonization of <i>Rhodococcus equi</i> with High Antibody Plasma Decreases Bacterial Viability and Promotes Phagocyte Activation
3:00 pm	119	Lais Costa	Plasma Endothelin Concentrations in Septic and Non-Septic Neonatal Foals
3:15 pm	120	Jose L. Mendez	Thromboelastography (TEG): An Innovative Technique for Early Detection of Hemostatic Abnormalities in Foals with Septicemia
3:30 pm	121	Gayle Hallowell	Effects of Dobutamine and Atropine and Acetylpromazine on Aortic Valve Function in the Horse
3:45 pm	122	Andrew van Eps	Intravenous 99m-technetium Liposomes in Horses: A Safety and Biodistribution Study
<i>BREAK</i>			
4:30 pm	123	Jill Munro	Prevalence and Risk Factors for Hyperinsulinemia in Clinically Normal Horses in Central Ohio
4:45 pm	124	Jill Munro	Seasonal Variation in Plasma Insulin and Glucose Concentration in Normal Horses in Central Ohio
5:00 pm	125	Nicholas Frank	Effects of a Supplement Containing Chromium and Magnesium on Insulin Sensitivity in Horses with Equine Metabolic Syndrome
5:15 pm	126	Rebecca Funk	Seasonal Changes in the Combined Glucose Insulin Tolerance Test in Normal Aged Horses
5:30 pm	127	Nicholas Frank	Effects of Sampling Time and Hay Feeding on Blood Glucose, Insulin, and Adrenocorticotropin Hormone (ACTH) Concentrations in Horses
5:45 pm	128	Nicholas Frank	Effects of Endotoxemia and Carbohydrate Overload on Glucose and Insulin Dynamics and the Development of Laminitis in Horses
6:00 pm	129	Teresa Burns	Pro-Inflammatory Cytokine and Chemokine Expression Profiles of Various Adipose Tissue Depots of Insulin-Resistant and Insulin-Sensitive Light Breed Horses

**Also see Equine abstracts 49 - 60 (Thursday, June 4, 9:00 am - 12:30 pm) and Equine abstracts 142 - 143 (Thursday, June 4, 5:45 pm - 6:15 pm)

FOOD ANIMAL

2:15 pm	130	Jody Gookin	An Animated Model of Reticulorumen Motility
2:30 pm	131	Alexandra Burton	A Retrospective Study of 106 Cases of Bovine Lymphosarcoma
2:45 pm	132	David Francoz	Determination of Dairy Cows Hematological Reference Interval by 3 Methods and Evaluation of Confounding Factors
3:00 pm	133	Anita Varga	Correlation of Serum Cardiac Troponin I and Myocardial Damage in Cattle with Monensin Toxicosis
3:15 pm	134	Anita Varga	Validation of the I-STAT Stallside Immunoassay for the Measurement of Bovine Cardiac Troponin I and its Clinical Relevance
3:30 pm	135	Baljit Singh	RGD-Conjugated Helical Rosette Nanotubes Inhibit Chemotaxis and Cell Signaling of Cattle Neutrophils
3:45 pm	136	Michel Levy	Experimental Infection of Colostrum-Deprived Calves with Bovine Viral Diarrhea Virus Type-1 Isolated from Free-Ranging White-Tailed Deer (<i>Odocoileus virginianus</i>)
<i>BREAK</i>			
4:30 pm	137	Nathalie Kirschvink	Evidence for Transplacental Passage of Bluetongue Virus Serotype 8 in Sheep
4:45 pm	138	Nathalie Kirschvink	Long Term Follow up of Rams' Semen Quality after Natural Infection with Bluetongue Virus Serotype 8
5:00 pm	139	Teresa Buchheit	Prevalence of BVDV on Alpaca Farms in Eastern and Middle Tennessee

5:15 pm	140	Mireille Meylan	Seroprevalence of Bovine Viral Diarrhea in New World Camelids in Switzerland and Implications for the Eradication Campaign in the Bovine Population
5:30 pm	141	Mireille Meylan	Tuberculosis caused by <i>Mycobacterium microti</i> in New World camelids
EQUINE**			
5:45 pm	142	Jennifer Davis	Pharmacokinetics of Intravenous Enrofloxacin and its Active Metabolite Ciprofloxacin in Hospitalized Horses
6:00 pm	143	James Belknap	Lamellar Leukocyte Accumulation and Epithelial Stress in Horses with Carbohydrate Overload-Induced Laminitis

** Also see *Equine abstracts 49 - 60 (Thursday, June 4, 9:00 am - 12:30 pm)* and *Equine abstracts 116 - 129 (Thursday, June 4, 2:15 pm - 6:15 pm)*

ORAL PRESENTATIONS – Friday, June 5

SMALL ANIMAL – RESPIRATORY

8:00 am	144	Elizabeth Rozanski	The Effect of Tracheal Lavage Administration on Lung Function in Healthy Kittens
8:15 am	145	Laura Nafe	Utility of Biomarkers in Bronchoalveolar Lavage Fluid for Discrimination of Asthma and Chronic Bronchitis in Cats
8:30 am	146	Tekla Lee-Fowler	Comparison of Intradermal Skin Testing and Allergen-Specific Serum Immunoglobulin E (IgE) in Experimental Feline Asthma
8:45 am	147	Jason Eberhardt	Chronic Administration of feG-COOH in Experimental Feline Asthma
9:00 am	148	Ray Dillon	Progression of Circulating Antigen and Antibody Responses in Cats Experimentally Infected with <i>Dirofilaria immitis</i>
9:15 am	149	Anne Wooldridge	Isometric Responses of Isolated Intrapulmonary Bronchioles from Cats with and without Adult Heartworm Infection
9:30 am	150	Henna Heikkilä	Matrix Metalloproteinase -2 and -9 in Bronchoalveolar Lavage Fluid of Dogs with Idiopathic Pulmonary Fibrosis
9:45 am	151	Baljit Singh	Recruitment of Pulmonary Intravascular Macrophages in Immune-Mediated Hemolytic Anemia In Dogs

SMALL ANIMAL – HEPATOLOGY

8:00 am	152	Cynthia Webster	Cyclic AMP Attenuates Fatty Acid Induced Apoptosis in an In vitro Model of Hepatic Lipotoxicity
8:15 am	153	Kenny Simpson	Culture-Independent Detection of Bacteria in Feline Inflammatory Liver Disease

SMALL ANIMAL – IMMUNOLOGY

8:30 am	154	Todd Archer	Development of a Flow Cytometric Panel of T-Lymphocyte Biomarkers to Evaluate the Immunosuppressive Effects of Cyclosporine in Dogs
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SMALL ANIMAL – GASTROENTEROLOGY

8:45 am	155	Niels Gruetzner	Evaluation of Serum Concentrations of Immunoglobulin A and Immunoglobulin M in Chinese Shar Peis with Cobalamin Deficiency
9:00 am	156	Aarti Kathrani	Genetical Analysis of Toll-Like Receptor Genes in German Shepherd Dogs Reveals Potential Polymorphism Associated with Inflammatory Bowel Disease
9:15 am	157	Iwan Burgener	Urinary Leukotriene E4 Excretion is Increased in Dogs with Chronic Enteropathies
9:30 am	158	Melanie Craven	High Throughput Pyrosequencing Reveals Reduced Bacterial Diversity in the Duodenal Mucosa of Dogs with IBD
9:45 am	159	Melanie Craven	<i>E. Coli</i> Associated with Granulomatous Colitis of Boxer Dogs Frequently Manifest Resistance to Antibiotics
2:15 pm	160	Susan Simmerson	Description of Protein-Losing Enteropathy in Yorkshire Terrier Dogs using the W.S.A.V.A. Gastrointestinal Classification System
2:30 pm	161	Joshua Hobbs	Doppler Ultrasound Analysis of Gastrointestinal Blood Flow for Differentiating Food Allergic from Non-Food Allergic Pruritic Dogs
2:45 pm	162	Heather Graham	Effects of Prednisone or Prednisone with Ultralow-Dose Aspirin on the Gastroduodenal Mucosa of Healthy Dogs
3:00 pm	163	Panagiotis Xenoulis	Serum Triglyceride Concentrations in Miniature Schnauzers with and without a History of Pancreatitis
3:15 pm	164	Lisa Prior	Serial Evaluation of Canine Pancreatic Lipase (Spec cPL™) in Dogs with Clinical Signs of Pancreatitis

3:30 pm	165	Marnin Forman	Evaluation of Feline Pancreas-Specific Lipase (Spec fPL™) for the Diagnosis of Feline Pancreatitis
3:45 pm	166	Kelly McCord	A Multi-Institutional Study Evaluating Diagnostic Utility of Spec cPL™ in the Diagnosis of Acute Pancreatitis in Dogs
<i>BREAK</i>			
4:30 pm	167	Suzanne Bailey	Clinical Significance of Increased Serum Feline Pancreatic Lipase Immunoreactivity Concentrations in Cats with Inflammatory Bowel Disease
4:45 pm	168	Dennis O'Brien	Serum D-Lactate Concentrations in Cats with Gastrointestinal Disease
5:00 pm	169	Nora Berghoff	Association of Serum Cobalamin and Methylmalonic Acid Concentrations in Dogs
5:15 pm	170	Kelly McCord	Comparison of Gastrointestinal Motility in Dogs Treated with Metoclopramide, Cisapride, Erythromycin or Maropitant Using the SmartPill™
5:30 pm	171	Frederic Gaschen	Variability Associated with Repeated Measurements of Gastric Emptying using the SmartPill pH.p Wireless Capsule and Scintigraphy in Dogs
5:45 pm	172	Michael Lappin	The Esophageal Transit Time of Tablets or Capsules in Cats following Administration with FlavoRx® Pill Glide or Pill Delivery Treats
6:00 pm	173	Diane Frank	Gastrointestinal Disease in Dogs with Excessive Licking of Surfaces

POSTER PRESENTATIONS

On Display: Thursday, June 4, 7:00 am - 10:00 pm Friday, June 5, 7:00 am – 10:00 pm
Saturday, June 6, 7:00 am – 12:30 pm

Attended by Author: Thursday, June 4, 7:00 am – 9:00 am; Friday, June 5, 9:50 am – 10:30 am &
Friday, June 5, 6:00 pm – 7:30 pm (Wine & Cheese Reception)

#	Presenting Author	Abstract Title
SMALL ANIMAL – NEUROLOGY		
174	Byeong-Teck Kang	High Resolution Magnetic Resonance Imaging of the Canine Brain at 7 Tesla: A Comparison Study with 0.2 and 1.5 Tesla
175	Alberta de Stefani	Clinical Signs, Magnetic Resonance Imaging Findings and Survival in Dogs with Intracranial Meningiomas and Glial Cell Tumours
176	Michaela Cautela	Oral Hydroxyurea Therapy for Dogs with Suspected Intracranial Meningioma: A Retrospective Cohort Study (2004-2009)
177	Christopher Mariani	Immune Cell Infiltration into Canine Meningiomas
178	Byeong-Teck Kang	Fluorodeoxyglucose Positron Emission Tomography and Magnetic Resonance Imaging Findings of Non-Suppurative Meningoencephalitis in Seven Dogs
179	Arianna Negrin	Steroid Responsive Meningitis-Arteritis Treatment with Three Potential Different Protocols: Clinical Signs, Laboratory and Long Term Follow Up in 48 Dogs
180	Byeong-Teck Kang	Three-dimensional Time-of-Flight MR Angiography of Intracranial Vessels in a Canine Model of Ischemic Stroke with Permanent Middle Cerebral Artery Occlusion
181	Maria Luisa Suarez	Prevalence of Cerebral Microbleeds in Aged Dogs
182	Fred Wininger	Preliminary Observations between Cox-2 Inhibitor Administration and Acute Cerebrovascular Disease in Dogs
183	Renee Barber	Multiplex Analysis of Cytokines in the Cerebrospinal Fluid of Dogs after Stroke
184	N. Matthew Ellinwood	Validation of R&D Systems Kits to Detect Cytokine Levels in Canine Cerebral Spinal Fluid
185	Ronaldo da Costa	Magnetic Resonance Imaging Findings In 60 Dogs with Cervical Spondylomyelopathy
186	Hiroaki Kamishina	Phosphorylated Neurofilament Nf-H as a Biomarker of Spinal Cord Injury in Dogs
187	Natasha Olby	Epidural and Intradural Scarring Post Laminectomy and Durotomy: A Comparison of Gelfoam and SentrX Film
188	Allison Haley	Breed Specific Polymyositis in the Hungarian Vizsla Dog
189	Richard Piercy	Mutational Analysis of Dystrophin-Deficient Muscular Dystrophy in Cavalier King Charles Spaniels
190	Edward (Ned) Patterson	Frequency of the Canine Exercise Induced Collapse Gene in Diverse Breeds
191	Charles Vite	BRDU Labeling Pattern of the Rostral Migratory Stream in Normal Canine and Feline Brains
192	Charles Vite	Intrathecal Enzyme Therapy In Mucopolysaccharidosis I Cats Reduces Storage Throughout The Brain.
193	Ji-hey Lim	Neural Stem Cell Sources in Adult Dogs
194	German Santamarina	Dogs with Cortical Beta-Amyloid Pathology Have Less Serotonergic Neurons in the Rostral Raphe Nuclei than Aged Matched Healthy Controls
SMALL ANIMAL – ONCOLOGY		
195	Clair Oliveira	Evaluation of the Carcinoembryonic (CEA) and Carbohydrate 15-3 (CA 15-3) Antigen in Malignant Mammary Tumors in Bitches
196	Clair Oliveira	Expression of Her-2/Neu Protein in Mammary Tumors of Bitches
197	Silvia Regina Ricci Lucas	Ceruloplasmin Concentrations in Dogs with Multicentric Lymphoma Undergoing Chemotherapy
198	Emily Marcus	Flow Cytometric Prognostic Factors in Canine B Cell Lymphoma
199	Genevieve Hammond	Denamarin [®] for the Prevention of Lomustine (CCNU) Induced Hepatotoxicity in Tumor Bearing Dogs: Interim Analysis
200	Timothy Stein	Effects of Mutant Beta-Catenin on Hepatocyte Growth Homeostasis (VCS Award Winner)

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- 201 Jacqueline Whittemore Comparison of Complete Blood Count Values for Samples Collected Using Traditional and Micro-sampling Tubes
- 202 Shiguang Yu Aging Associated Changes in Blood Cells of Cats
- 203 Rebecca Haviland Clopidogrel Therapy in Dogs with Immune-mediated Hemolytic Anemia
- 204 Sharon Center Platelet P-Selectin (CD62P) Expression and Platelet-Leukocyte Interactions in Clinically Healthy Dogs with and without Ultralow-Dose Aspirin
- 205 Lisa Shearer** Effects of Aspirin and Clopidogrel on Platelet Function in Normal Dogs
- 206 Reinhard Mischke Influence of rhFVIIa on Haemostatic Variables in Normal and Factor VII Deficient Dogs

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- 207 Rebecca Manley Exercise-Associated Heart Rate Recovery Time in Normal Dogs
- 208 Elise Mercier Influence of Age on Pulmonary Arterial Pressure in Healthy Beagle Dogs: Analysis by Right Ventricular Catheterization, Pulsed Doppler Echocardiography and Pulsed Doppler Tissue Imaging
- 209 Beate Egner Evaluation of HDO[®] (High Definition Oscillometry) - A New NIBP Technique - In Comparison to Invasive Measurement (HSE - Hydro Sachs Electronics) in Anesthetised Dogs
- 210 Yasutomo Hori Action Duration-Related Diuretic Effects and Rennin-Angiotensin-Aldosterone System in Healthy Dogs with a Furosemide
- 211 Yasutomo Hori Changes in the Plasma ANP and NT-proBNP Concentrations in Healthy Dogs with an Acute Volume Overload
- 212 Alora Carrier Analytical Validation of a Commercially Available Feline N-Terminal Prohormone Brain Natriuretic Peptide ELISA
- 213 Katie Cyr Measurement of Canine B-Type Natriuretic Peptide Using a Human Analyzer
- 214 Kristine Yee** **Intraday Variation In Feline N-Terminal Prohormone Brain Natriuretic Peptide Concentration**
- 215 Nobuyuki Kanno Plasma Adrenomedullin as a Biomarker for Severity of Pulmonary Hypertension in Dogs
- 216 Maria Helena Matiko Pulsed Tissue Doppler Evaluation in Dogs with Idiopathic Dilated Cardiomyopathy
- Akao Larsson
- 217 Maria Helena Matiko Evaluation of Left Ventricular Systolic and Diastolic Function Using Pulsed Tissue Doppler in Dogs with Chronic Mitral Valve Insufficiency
- Akao Larsson
- 218 Miki Nishida Pathological Findings in Dogs with Mitral Valve Insufficiency: Biopsies during Open Heart Surgery with Cardiopulmonary Bypass
- 219 Miki Nishida Long-Term Survival of Two Dogs after Mitral Valve Plasty using Expanded Polytetrafluoroethylene Chords: Pathological Study
- 220 Miki Nishida Mitral Valve Plasty in 11 Cavalier King Charles Spaniels
- 221 Takeshi Mizuno Intra- and Post-Operative Complications in 47 Dogs that Underwent Mitral Valve Plasty
- 222 Takeshi Mizuno Efficacy of Methylprednisolone Therapy for Inflammation after Cardiac Surgery
- 223 Megumi Fujiwara Recovery of Atrial Fibrillation in Three Dogs after Mitral Annuloplasty Under Cardiopulmonary Bypass for Severe Mitral Regurgitation
- 224 Yoko Fujii LV 2D Strain Analysis Pre- and Post- Balloon Valvuloplasty in Dogs with Pulmonary Stenosis
- 225 Yoshinori Nishijima Effects of Bisoprolol on Ventricular Myocyte Electrophysiology During Chronic Heart Failure
- 226 Megan Rector Heart Rate in Irish Wolfhounds with Lone Atrial Fibrillation & Assessment of Digoxin as Sole Method of Rate Control
- 227 Jonathan Abbott Prevalence of the Myosin-Binding Protein C Mutation in Apparently Healthy Cats of Diverse Lineage
- 228 Ann-Sabin Berli The Use of Strain, Strain Rate, and Displacement by 2D Speckle Tracking for Assessment of Systolic Left Ventricular Function in Goats: Applicability and Influence of General Anesthesia

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- 229 Miquel Laporta Barometric Whole-Body Plethysmography Reference Values in Different Age-Range Cats with Natural Bronchial Disease
- 230 Yan-Ann Jhuo Clinical Application of Barometric Whole-Body Plethysmography and Bronchoprovocation Test in Feline Bronchial Disease
- 231 Michelle Patrick** **The Quality of Canine Bronchoalveolar Lavage Fluid Cytology is Preserved for Up to 72 Hours with or without Autologous Serum**

- 232 Stephanie Pumphrey Clinical and Laboratory Characteristics of 35 Dogs with Pulmonary Thromboembolism (2002-2008)
- 233 M Josefa Fernandez Del Palacio Comparative Study of the Tolerance and Efficiency of Four Different Techniques for Nebulisation Delivery in cats
- 234 Carol Reinero Utility of Tepoxalin, a Dual Lipoxygenase and Cyclooxygenase Inhibitor, in Canine Chronic and/or Eosinophilic Bronchitis
- 235 Eric de Madron Treatment of Tracheal Collapse with Vet-Stents® in 36 Dogs: Complications and Long-Term Results

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- 236 Melania Osto Subacute Endotoxemia Temporarily Impairs Insulin Sensitivity and β -cell Function in Cats
- 237 Johanna Rieder Comparison of Wireless and Conventional Continuous Glucose Monitoring Systems (CGMS) in 4 Dogs
- 238 Richard Nelson Extended Use of Protamine Zinc Recombinant Insulin for Treating Diabetes Mellitus in Cats
- 239 Pascale Smets Urinary Markers and Plasma Iohexol Clearance in Healthy Dogs and Dogs with Pituitary-Dependent Hyperadrenocorticism
- 240 Kellie Fecteau Effect of Phytoestrogens and Melatonin on Adrenal Steroidogenesis Using Human Adrenal Cells as a Model for Canine Hyperadrenocorticism
- 241 Linda Martin Effects of Low Doses of Cosyntropin on Cortisol Concentrations in Clinically Healthy Cats
- 242 Linda Martin Dose Response of Aldosterone to ACTH Stimulation in Clinically Healthy Cats
- 243 Bronwyn Rutland** **Determination of the Optimal Time for Testing Thyroid Hormones During Treatment with Methimazole in Healthy and Hyperthyroid Cats**
- 244 Kate Hill The Efficacy and Safety of a Novel Lipophilic Formulation Methimazole for the Once Daily Transdermal Treatment of Cats with Hyperthyroidism

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- 245 Jan Suchodolski The Effect of a Multi-Strain Probiotic Formulation on Markers of Gastrointestinal Function in Healthy Dogs and Cats
- 246 Debbie Minikhiem Effect of *Bifidobacterium animalis* AHC7 on Resolution of Acute Diarrhea in the Canine
- 247 Jose F Garcia Evaluation of Intra-Stool Variability of Three Lactic Acid Bacterial Genera in Dogs by Quantitative Real-Time PCR
- 248 Jodi Nicklas** **Molecular and Histopathological Characterization of Enteroadherent Bacteria in Failure to Thrive Kittens**
- 249 Melanie Craven Absence of a Bacterial Association in Yorkshire Terriers with Protein-Losing Enteropathy and Cystic Intestinal Crypts
- 250 Panagiotis Xenoulis Serum fPLI and Spec fPL Concentrations in Cats with Experimentally Induced Chronic Renal Failure
- 251 Brier Bostrom** **Immunohistochemical Characterization of Canine Pancreata with Lymphocytic Infiltration**
- 252 Romy Heilmann Purification and Partial Characterization of Canine S100A12
- 253 Niels Gruetzner Association Study of Single Nucleotide Polymorphisms with Cobalamin Deficiency in the Chinese Shar Pei
- 254 Albert Jergens Apoptosis in the Pathogenesis and Treatment of Canine Inflammatory Bowel Disease
- 255 Isabelle Ruhnke Feasibility of a Modified Ussing Air Suction Chamber for the Evaluation of Intestinal Mucosal Function in Endoscopic Biopsies from Dogs and Cats
- 256 Allison Bradley Comparison of Gastrointestinal Motility in Dogs Treated with Iberogast™ and Ondansetron using the Smartpill™
- 257 Bettina Mayer-Roenne** **Successful Treatment of Benign Esophageal Strictures with Balloon Dilation and Submucosal Triamcinolone Injection in Five Dogs and One Cat**
- 258 Adam Ginman** **Small Animal Gastrointestinal Endoscopy: A Computer-Aided Instructional Program**

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- 259 Kensuke Nakamura Usefulness of Contrast-Enhanced Ultrasonography for Characterization of Focal Liver Lesions
- 260 **Andrea Johnston** **Hepatic Copper Concentrations in Labrador Retrievers with and without Chronic Hepatitis (1980-2008): An Emerging Syndrome or Oversupplementation?**
- 261 Angela Au Reduction of Cytokine-Induced Prostaglandin E2 and Chemokine Production in Cultured Canine Hepatocytes by Natural Products
- 262 Melinda Camus Serum Protein Electrophoresis Beta-Gamma Bridging is a Poor Predictor for Hepatic Disease

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- 263 **Kevin Byl** **In Vitro Comparison of Plain Radiography, Double Contrast Cystography, Ultrasonography, and Computed Tomography for Measuring Urocystolith Size Using a Bladder Phantom**
- 264 Ben Young Influence of Food Consumption on Variation of Urinary Volume, pH, Analytes, and Relative Supersaturation for Calcium Oxalate and Struvite in Healthy Adult Male Hound Dogs
- 265 Bernhard Gerber Alpha 1-Acid Glycoprotein, Serum Amyloid A, and Monoocyte Chemoattractant Protein-1 in Cats with Idiopathic Cystitis
- 266 Ryan Keegan Oxidative Stress in Cats with Chronic Renal Failure
- 267 Marcia Kogika Erythrocyte Zinc Protoporphyrin Evaluation in Cats with Chronic Renal Disease
- 268 Christiane Prosser Sequential Evaluation of Erythrocyte Zinc Protoporphyrin in Cats with Chronic Renal Disease
- 269 Shigeki Yamano Endogenous Erythropoietin Levels and Iron Utility in Cats with Chronic Kidney Disease
- 270 Natalie Finch Is Cadmium Exposure Associated with Chronic Kidney Disease in Cats?
- 271 Jerome Seguela Glomerular Filtration Rate in Healthy English Pointer, English Setter and German Shepherd Dogs
- 272 David Grant 24-Hour Water Consumption in Healthy Cats using a Fountain versus a Bowl
- 273 Courtney North Clinical and Genetic Characterization of a Congenital Entlebucher Mountain Dog Urinary Tract Syndrome
- 274 Mary Nabity Proteomic Analysis of Urine from Male Dogs in Early Stages of Progressive Tubulointerstitial Injury Due to X-linked Hereditary Nephropathy (XLHN)

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- 275 Nolan Frantz Metabolomic Profiling of Plasma in Arthritic vs Non-Arthritic Dogs
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- 277 Ryan Yamka Metabolomic Profiling of Plasma in Lean vs Obese Dogs
- 278 Yuka Mitsuhashi Determination of Maintenance Energy Requirement of Cats after Spaying
- 279 Márcia Jericó Assessment of Metabolic Syndrome Occurrence in Obese Client-Owned Dogs
- 280 Amy Chamberlin A Vegetarian Dietary Oil Source of γ -linolenic Acid Results in Arachidonic Acid Accumulation in Feline Uterine Tissues: Evidence of Delta-5 Desaturation
- 281 Ji-Houn Kang Effect of Parenteral L-alanyl-L-glutamine Supplementation on Phagocytic Responses of Canine Peripheral Blood Polymorphonuclear Neutrophilic Leukocytes Exposed to Methylprednisolone Sodium Succinate

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- 282 **Jessica Quimby** **The Pharmacokinetics of Mirtazapine in Healthy Cats**
- 283 Robin Butchin Bioavailability of a Novel, Bioenhanced Preparation of Curcumin in Dogs
- 284 Meaghan Whealen Bioavailability of a Novel Formulation of S-Adenosylmethionine in Beagle Dogs
- 285 Steven Budsberg In vivo Effects of Firocoxib, Meloxicam and Tepoxalin Administration on Eicosanoid Production in Target Tissues of Normal Cats

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- 286 Elise Gingrich Intestinal Parasites of Dogs on the Galapagos Islands
- 287 Merle Olson Canadian Prevalence and Diagnosis of Giardia Infection in Dogs and Cats using a Fecal Antigen Test and Fecal Smear
- 288 Sahatchai Tangtrongsup Prevalence and Molecular Analysis of *Giardia* spp. Infections in Dogs in Chiang Mai, Thailand: Preliminary Findings
- 289 Nipattra Debavalyi Serotypes and Pathogenicity Associated with Antimicrobial-Induced Resistance in Fecal *Escherichia coli* of Healthy Dogs

290	Julia Veir	Comparison of Quantitative PCR and Conventional Endpoint PCR for Amplification of Parvovirus DNA in Blood from Naturally Infected and Recently Vaccinated Dogs
291	E. Freya Kruger	The Epidemiology of <i>Streptococcus canis</i> Infections in Dogs and Cats
292	Jean-Pierre Pages	Bacterial and Fungal Colonization of Peripheral Intravenous Catheters in Dogs and Cats
292B	Mary Marcondes	Evaluation of the Skeletal Musculature of Dogs with Visceral Leishmaniasis by Means of Electromyography
293	Mary Marcondes	Determination of Four IgG Subclasses in Asymptomatic Dogs with Visceral Leishmaniasis and in Animals Vaccinated Against the Disease
293B	Mary Marcondes	Histopathological Evaluation of the Skeletal Muscle of Dogs with Visceral Leishmaniasis
294	Regis Krah	Performance Evaluation of Species-Specific Peptide-Based Assays for Detection of Canine Antibodies to <i>E. canis</i> and <i>E. chaffeensis</i>
295	Ramaswamy Chandrashekar	<i>Ehrlichia/Anaplasma</i> spp. Infection and Exposure Rates in Dogs from Oklahoma and Arkansas
296	Pedro Paulo Diniz	Efficacy of Doxycycline Treatment in Dogs Naturally Infected with <i>Anaplasma phagocytophilum</i>
297	Audra Fenimore	<i>Bartonella</i> spp. Associated Endocarditis in Dogs in Colorado and Wyoming
298	Jeanne Ficociello	Detection of <i>Bartonella henselae</i> IgM in Cats with Experimentally Induced Bartonellosis
299	James Eucher	Prevalence of <i>Bartonella</i> and Haemoplasma DNA in Samples from Non-Owned Free-Roaming Cats Admitted to Animal Shelters in Colorado and Florida
300	Christian Leutenegger	Association of Pathogenicity and Rate of Coinfection of Three Feline Hemotropic Mycoplasma Strains with Presence and Severity of Anemia
301	Christian Leutenegger	Analytical Sensitivity and Specificity of a Real-Time PCR Assay Detecting Pathogenic Leptospira in Dogs Based on the hap-1 Gene
302	Kristy Dowers	Prevalence of Infectious Agents and Anti-Erythrocyte Antibodies in Cats with Anemia
303	Michael Lappin	<i>Bartonella henselae</i> Antigen Recognition Patterns in the Serum and Aqueous Humor of Cats with and without Uveitis
304	Michael Lappin	Effect of Orbifloxacin or Doxycycline Administration on <i>Bartonella</i> spp. and Hemoplasma Test Results from Naturally-Exposed Cats
305		Abstract Withdrawn
306	Jacqueline Whittemore	Alpha Enolase and Annexin A2 Antibodies in Cats
307	Kristopher Curtis	Prevalence of Feline Immunodeficiency Virus Antibody and Feline Leukemia Virus Antigen in Samples Submitted to IDEXX Reference Laboratories for Feline Hemotropic Mycoplasma Testing
308	Yasuyuki Endo	An Updated Epidemiological Survey of Feline Immunodeficiency Virus Infection in Japan
309	Mitika Hagiwara	Evaluation of CD4+ and CD8+ T Lymphocytes in Cats Naturally Infected with Feline Leukemia Virus
310	Archivaldo Reche Junior	Cutaneous Mycoflora and CD4+:CD8+ Ratio of Cats Infected with Feline Immunodeficiency Virus
311	Archivaldo Reche Junior	Prevalence of Feline Calicivirus and Herpesvirus Type 1 in Maine Coon Cats with Chronic Gingivitis

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312	Sara Zaldivar-Lopez	Disease Prevalence and Causes of Death in American Kennel Club Registered Greyhounds
313	Paulo Vilar Saavedra	Thromboelastographic Changes after Gonadectomy in Retired Racing Greyhounds

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314	Daniela Bedenice	Immunological Responses in Persistently BVDV Infected Alpacas
315	Claire Whitehead	Humoral Response to Bluetongue Vaccination in Alpacas

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316	Marcio Costa	Incidence of <i>Clostridium difficile</i> in Feces of Male Holstein Veal Calves
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317	Jennifer Sonis	Prairie Rattlesnake Envenomation in 25 New World Camelids
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- 318 Marc Kraus Concentrations of Cardiac Troponin I Measured with an I-Stat[®] I Analyzer in Normal Horses Undergoing a Standard Treadmill Performance Examination
- 319 Rose Nolen-Walston The Effects of Dehydration on Central Venous Pressure in Adult Horses
- 320 Joan Norton Comparison of Water Manometry to Two Electronic Pressure Monitors for Central Venous Pressure Measurement in Horses**
- 321 Joan Norton Repeatability and Effect of Head Position on Central Venous Pressure Measurement in Standing Adult Horses**
- 322 Olga Seco Cardiac Troponin I Concentrations in Horses Referred for Colic

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- 323 Rosa Barsnick Association of Growth Hormone and Ghrelin with the Energy Metabolism and Mortality in Septic Foals**
- 324 Rebecca Funk Seasonal Changes in Plasma Alpha-Melanocyte-Stimulating Hormone and Adrenocorticotrophic Hormone in Response to Thyrotropin-Releasing Hormone Administration in Normal Aged Horses**
- 325 John Haffner Effect of Insulin Infusion into the Digital Artery on Glucose Concentrations in the Digital Vein in Healthy Horses
- 326 Johan Brojer Validation of a Species Specific Enzyme-Linked Immunosorbent Assay for Measurement of Serum Insulin in Horses
- 327 Harold Schott II Hyperinsulinemia in Horses with Pituitary Pars Intermedia Dysfunction and Effects of Housing on Insulin Response During a Glucose Tolerance Test

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- 328 Susana Macieira Characterization of the cDNA Sequence Encoding for the Platelet Integrin AlphaIIb and Beta3 in a Horse with Glanzmann thrombastenia
- 329 Maeva May Comparison of Hematologic and Biochemical Values Obtained Via Intravenous Catheter Versus Venipuncture in Hospitalized Horses**

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- 330 Jennifer Day Effects of Lipopolysaccharide, Lipoteichoic Acid, and Peptidoglycan on Tumor Necrosis Factor Production in Equine Whole Blood Culture
- 331 Britta Leise Laminar Inflammatory Gene Expression in the Carbohydrate Overload Model of Equine Laminitis
- 332 Brett Sponseller IL-10 Downregulates Production of Peroxynitrite in Equine Monocyte-Derived Macrophages: Implications for Rhodococcal Infection
- 333 Jarred Williams Effect of Intravenous Lidocaine Administration on Leukocyte Emigration in the Black Walnut Extract Model of Laminitis

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- 334 Stephanie Bell The Immune Response of Foals to Natural Infection with Equid Herpesvirus-2 and its Association with Febrile Illness
- 335 Emir Hodzic Use of Quantitative Real-Time PCR for the Detection of *Salmonella* Sp. in Fecal Samples of Horses Admitted to a Veterinary Medical Teaching Hospital
- 336 Alma Roy Comparison of PCR Testing for Management of an Outbreak of EHVI at a Racetrack
- 337 Katharyn Mitchell Salmonella Oranienburg in a Large Animal Veterinary Teaching Hospital**

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- 338 Harold Schott II Paradoxical Aciduria in Horses: 37 cases (2000-2008)

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- 339 Cristina Sogaro-Robinson Diagnostic Utility of Computed Tomography of the Head in Horses Affected by Neurologic Disorders

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- 340 Anna Firshman The Effect of Metformin on Insulin Sensitivity in Horses
- 341 David Lewis The Positive Interaction of Propionate, Insulin, and Cortisol in the Horse
- 342 Jessica Suagee Acute Hyperinsulinemia Modulates Expression of Genes Involved in Glucose and Fat Metabolism in Subcutaneous Adipose Tissue of Horses
- 343 Kibby Treiber Insulin Sensitivity in Ponies is Influenced by Season and Pasture

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- 345 Carrie Finno Cardiopulmonary Effects of Xylazine in Endotoxemic Horses
- 346 Lee Ann Fugler Evaluation of Various Matrix Metalloproteinase Inhibitors (MMPIs) in the Horse
- 347 **Cristobal Navas de Solis** **Ultrasonographic Measurement of Spleen Volume in Horses**

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- 349 Jennifer Davis The Pharmacokinetics of Intravenous and Intramuscular Buprenorphine in the Horse
- 350 Cynthia North Bioavailability of Detomidine Administered to Horses as an Oromucosal (Sublingual) Gel and Comparison of Absorption of Detomidine by the Sublingual and Intramuscular Routes
- 351 Elizabeth Davis Pharmacokinetics of Orally Administered Terbinafine in Horses
- 352 **Jessica Thompson** **Assessment of Cardiac Function, Skeletal Muscle Morphology, and Muscle Enzymes in Horses on Long-Term Clenbuterol Therapy**
- 353 **Dorothy Whelchel** **Effects of Clopidogrel on Platelet Function in the Horse**

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- 355 Géraldine Blanchard Nutritional Risk Factors in the Foal's and Yearling's Diet on Developmental Orthopedic Disease: A Field Study of 393 Couples Mare-Foal in 3 Breeds in Basse Normandie (France)
- 356 Géraldine Blanchard Nutritional Risk Factors in the Mare's Diet on Developmental Orthopedic Disease in Foals and Yearlings: A Field Study of 393 Couples Mare-Foal in 3 Breeds in Basse Normandie (France)