American Journal of Veterinary Research

Index for Volume 68
No. 1 – 12 January – December 2007

Published by

AMERICAN VETERINARY MEDICAL ASSOCIATION

1931 N MEACHAM RD, SUITE 100, SCHAUMBURG, IL 60173-4360
Index to News

A
Academy of Pharmaceutical Physicians and Investigators (APPI)
Physicians’ association supports ties with AVMA, 803

Accreditation
Education council schedules site visits, 9
University of Melbourne receives AVMA accreditation, 119
Education council schedules site visits, 346
AVMA accredits four schools, 461
Education council schedules site visits, 691
Executive Board meets, 691
Washington, DC hosts AVMA, 923
Education council schedules site visits, 1037

Acts see Legislative Acts

Adverse Effects
Horse deaths associated with unapproved drug, 7

Aeropulmin
Horse deaths associated with unapproved drug, 7

Aggression
New method could lead to less aggressive production animals, 346

Alabama
Auburn to study treatment for lymphoma in dogs, 10
Research awards conferred, 10
AVMA accredits four schools, 461
Auburn, Colorado State veterinary colleges turn 100, 805
Study describes pathology of feline heartworm disease, 923

Allergan
Industry, academia forge links to train pathologists, 118

American Animal Hospital Association (AAHA)
AAHA revises canine vaccine recommendations, 462
Event to raise awareness of rabies prevention, 922

American Association for Laboratory Animal Science (AALAS)
AALAS Foundation requests proposals, 347
Symposium brings together student researchers, 1143

American Association of Bovine Practitioners (AABP)
Bovine practitioners solicit abstracts, 347

American Association of Feline Practitioners (AAFP)
AAFPAF seeks feline sarcoma research proposals, 120
AAFP requests research proposals, 1143

American Association of Human-Animal Bond Veterinarians (AAH-ABV)
Call for human-animal bond research proposals, 804
Researchers study air emissions from animal feeding operations, 804

American Association of Public Health Physicians (AAPHP)
Physicians’ association supports ties with AVMA, 803

American Association of Veterinary Immunologists (AAVI)
CRWAD honors Carmichael, 347

American Association of Veterinary Laboratory Diagnosticians (AAVLD)
How to submit samples, report cases related to adulterated pet food, 459
Specialists confer about the pet food recall, 579
AAVLD continues to seek samples, case reports, 803
Research examines contaminants in food, deaths of pets, 1279

American Association of Veterinary Medical Colleges (AAVMC)
Grateful clients contribute funds to veterinary colleges, 581
AAVMC names Pappaioanou next executive director, 921

American Association of Veterinary Parasitologists (AAVP)
CRWAD honors Carmichael, 347

American Association of Veterinary State Boards (AAVSB)
Executive Board meets, 691

American Association of Zoo Veterinarians (AAZV)
Euthanasia guidelines for nondomestic animals available, 461

American Civil Liberties Union (ACLU)
Congress strengthens law against animal rights extremists, 7

American College of Laboratory Animal Medicine (ACLAM)
Scholarship offered to attend AVMA convention, 1143

American College of Occupational and Environmental Health (ACOEH)
Physicians’ association supports ties with AVMA, 803

American College of Preventive Medicine (ACPM)
Physicians’ association supports ties with AVMA, 803

American College of Veterinary Clinical Pharmacology (ACVCP)
ACVCP announces diplomates, 922

American College of Veterinary Internal Medicine (ACVIM)
Specialists confer about the pet food recall, 579
ACVIM honors researchers, 806
Symposium brings together student researchers, 1143

American College of Veterinary Microbiologists (ACVM)
CRWAD honors Carmichael, 347

American College of Veterinary Pathologists (ACVP)
Industry, academia forge links to train pathologists, 118

American Kennel Club (AKC)
AKC foundation funds vision research, 9

American Medical Association (AMA)
Physicians’ association supports ties with AVMA, 803

American Poultry Historical Society (APHS)
Veterinary joins Poultry Hall of Fame, 120

American Quarter Horse Foundation (AQHF)
Test may eliminate debilitating skin disease in horses, 692

American Society for the Prevention of Cruelty to Animals (ASPCA)
MAF’s equine genetic research under way, 1036


Index 1
American Veterinary Medical Association (AVMA)
Specialists confer about the pet food recall, 579
Executive Board meets, 691
Physicians' association supports ties with AVMA, 803
Event to raise awareness of rabies prevention, 922
Symposium brings together student researchers, 1143

American Veterinary Medical Foundation (AVMF)
AAFP seeks feline sarcoma research proposals, 120
Morris Animal Foundation, AVMF fund influenza research, 691
AVMF earns three stars, 1141

Amgen
Industry, academia forge links to train pathologists, 118

Analytic & Diagnostic Techniques
Genetics research aids scrapie eradication, 9
How to submit samples, report cases related to adulterated pet food, 459
CSU team earns equine research award, 461
Developments continue in recall of pet food, 579
Specialists confer about the pet food recall, 579
Veterinarians receive recognition for technology transfer, 593
Test may eliminate debilitating skin disease in horses, 692
USDA shows off a facility for research, 921
APHIS proposes to increase user fees for diagnostics, 922
Research examines contaminants in food, deaths of pets, 1279

Animal Enterprise Terrorism Act
Congress strengthens law against animal rights extremists, 7

Animal Medicinal Drug Use Clarification Act (AMDUCA)
Horse deaths associated with unapproved drug, 7

Animal Rights
Congress strengthens law against animal rights extremists, 7

Animal Welfare
Executive Board acts on animal welfare, education recommendations, 117
AAALAS Foundation requests proposals, 347
Veterinarians receive recognition for technology transfer, 593

Anniversaries
Auburn, Colorado State veterinary colleges turn 100, 805

Antimicrobial Resistance
Banning antimicrobials not effective, study says, 461

Antimicrobials
Banning antimicrobials not effective, study says, 461
Veterinarians receive recognition for technology transfer, 593

Appointments
Industry, academia forge links to train pathologists, 118
Oregon State appoints Clarke as dean, 120
DeHaven named AVMA executive vice president, 460
Johnston steps into new position, 462
Cornell appoints Kollikoff as dean, 582
Klausner joins Animal Medical Center, leaves U of M, 582
Louisiana appoints Haynes as dean, 593
Executive Board meets, 691
Homeland Security appoints two-year director for Plum Island, 804
WesternU appoints Nelson as dean, 804
Galantino-Homer named laminitis senior research investigator, 805
AAVMC names Pappaioanou next executive director, 921
New building to advance study of tuberculosis, 921
University of Missouri welcomes new dean, 922

Aringo Memorial Fund
MAF's equine genetic research under way, 1036

Association for Veterinary Epidemiology (AVE)
CRWAD honors Carmichael, 347

Association of American Veterinary Medical Colleges (AAVMC)
AAVMC examines education of food systems veterinarians, 230
Executive Board meets, 691
AAVMC names Pappaioanou next executive director, 921
Workforce study examining breadth and depth of profession, 1141
Symposium brings together student researchers, 1143

Auburn University College of Veterinary Medicine
Auburn to study treatment for lymphoma in dogs, 10
Research awards conferred, 10

Australia
Education council schedules site visits, 9
University of Melbourne receives AVMA accreditation, 119

Avian Influenza
Dog dies of avian influenza, 7
FAO center to rapidly respond to disease outbreaks, 7
AVMA avian influenza FAQ updated, 8
Researchers to study transmission of avian influenza, 9
Some veterinarians at increased risk of avian influenza virus infection, 803

Avian Influenza Action Group
Veterinarians sought for influenza-related assignments abroad, 1035

AVMA/AAVMC Joint Committee
Executive Board meets, 691

AVMA Animal Welfare Advisory Committee (AWAC)
Executive Board acts on animal welfare, education recommendations, 117

AVMA Annual Convention
CDC director to headline AVMA Opening Session in DC, 691
Executive Board meets, 691
Washington, DC hosts AVMA, 923
Veterinarians sought for influenza-related assignments abroad, 1035
Scholarship offered to attend AVMA convention, 1143
Nominations to AVMA entities being accepted, 1280

AVMA Bylaws
Executive Board meets, 691

AVMA Committee on Diversity
Executive Board acts on animal welfare, education recommendations, 117

AVMA Communications Division
Washington, DC hosts AVMA, 923

AVMA Council on Education (COE)
Education council schedules site visits, 9
Executive Board acts on animal welfare, education recommendations, 117
University of Melbourne receives AVMA accreditation, 119
Education council schedules site visits, 346
AVMA accredits four schools, 461
Education council schedules site visits, 691, 1037

AVMA Council on Research (COR)
Nominations sought for third seat on AVMA research council, 8
Executive Board acts on animal welfare, education recommendations, 117
New AVMA initiatives move forward, 581
AVMA Council on Veterinary Service (CVS)
Deadline extended for council nominations; another position open, 229

AVMA Councils and Committees
Nominations to AVMA entities being accepted, 1280

AVMA Council Selection Task Force
Executive Board acts on animal welfare, education recommendations, 117

AVMA Educational Standards Task Force
Executive Board acts on animal welfare, education recommendations, 117

AVMA Education and Research Division
Donlin, Simmons depart AVMA, 924

AVMA Executive Board (EB)
Executive Board acts on animal welfare, education recommendations, 117
Former VP Kinnarney wins District III Executive Board seat, 346
Krehbiel elected to AVMA board, 460
New AVMA initiatives move forward, 581
Executive Board meets, 691
Washington, DC hosts AVMA, 923

AVMA Executive Division
Donlin, Simmons depart AVMA, 924

AVMA Guidelines
AVMA releases updated euthanasia guidelines, 923

AVMA House Advisory Committee (HAC)
Deadline extended for council nominations; another position open, 229

AVMA House of Delegates (HOD)
Deadline extended for council nominations; another position open, 229

New AVMA initiatives move forward, 581

AVMA Mentoring Center
Executive Board acts on animal welfare, education recommendations, 117

AVMA National Summit on the One Health Initiative
Executive Board acts on animal welfare, education recommendations, 117

AVMA Officers
Search continues for new AVMA executive vice president, 8
DeHaven named AVMA executive vice president, 460
DeHaven hits the ground running, 1037

AVMA Policies
Executive Board acts on animal welfare, education recommendations, 117

AVMA Political Action Committee Policy Board
Nominations to AVMA entities being accepted, 1280

AVMA Staff
Search continues for new AVMA executive vice president, 8
DeHaven named AVMA executive vice president, 460
Donlin, Simmons depart AVMA, 924
DeHaven hits the ground running, 1037

AVMA Task Force on Diversity
Executive Board acts on animal welfare, education recommendations, 117

Awards
Grayson-Jockey offers new equine research award, 9
Research awards conferred, 10
Surgeons receive honors from world association, 10
Veterinary joins Poultry Hall of Fame, 120
CRWAD honors Carmichael, 347
CSU team earns equine research award, 461
Veterinarians receive recognition for technology transfer, 593
Executive Board meets, 691
Washington, DC hosts AVMA, 923
Phi Zeta presents research awards for 2007, 1038
Students earn prizes for research projects, 1038
Company funds research on porcine circovirus, 1142
AVMA issues call for awards nominations, 1279

Banfield, the Pet Hospital
Colleges decide whether to partner with Banfield, 693

Biosecurity
Congress strengthens law against animal rights extremists, 7
Homeland Security appoints two-year director for Plum Island, 804
New building to advance study of tuberculosis, 921
USDA shows off a facility for research, 921
CDC shuts down some research at Texas A&M, 1141

Biotechnology
FDA-CVM officials discuss research, 1035

Blood
Veterinarians receive recognition for technology transfer, 593

Boehringer Ingelheim Vetmedica Inc
Horse deaths associated with unapproved drug, 7
PRRS Research Award program seeks proposals, 1037
Company funds research on porcine circovirus, 1142

Bristol-Myers Squibb
Industry, academia forge links to train pathologists, 118

Burroughs Wellcome Fund
Industry, academia forge links to train pathologists, 118

California
Research awards conferred, 10
Zoo names hospital for veterinary professor, 10
Industry, academia forge links to train pathologists, 118
Horse genome sequence available, 229
College, school to contribute to influenza research centers, 462
Johnston steps into new position, 462
Test may eliminate debilitating skin disease in horses, 692
Colleges decide whether to partner with Banfield, 693
Researchers study air emissions from animal feeding operations, 804
WesternU appoints Nelson as dean, 804
WesternU graduates first veterinary class, 805
Research examines contaminants in food, deaths of pets, 1279
Scientists study disease transmission among wild, domestic cats, 1280

Calls for Abstracts
Bovine practitioners solicit abstracts, 347

Calls for Applications
Applications due soon for student research program, 8

Calls for Comments
FDA finds food from animal clones to be safe, 117

Calls for Nominations
Nominations sought for third seat on AVMA research council, 8
Calls for Proposals
AALAS Foundation requests proposals, 347
Call for human-animal bond research proposals, 804
Researchers study air emissions from animal feeding operations, 804
Call for feline research proposals, 1037
PRRS Research Award program seeks proposals, 1037
Research training programs open to veterinary students, 1142
AAFP requests research proposals, 1143

Canada
Education council schedules site visits, 9
Industry, academia forge links to train pathologists, 118
Education council schedules site visits, 346
Bovine practitioners solicit abstracts, 347
University of Minnesota receives funds to study swine disease, 347
How to submit samples, report cases related to adulterated pet food, 459
AVMA accredits four schools, 461

Canine Comparative Oncology Genomics Consortium
Tissue repository to advance study of cancer in dogs, 119

Cataracts
AKC foundation funds vision research, 9

Centers for Disease Control and Prevention (CDC)
Researchers to study transmission of avian influenza, 9
Study links salmonellosis to pet rodents, 120
Infectious disease center increases public health impact, 580
CDC director to headline AVMA Opening Session in DC, 691
Event to raise awareness of rabies prevention, 922
CDC shuts down some research at Texas A&M, 1141

Charity Navigator
AVMF earns three stars, 1141

China
FAO center to rapidly respond to disease outbreaks, 7
Developments continue in recall of pet food, 579

Chlorate
Chlorate compound suppresses microbes in animals, 9

Clenbuterol
Horse deaths associated with unapproved drug, 7

Client Education
AVMA avian influenza FAQ updated, 8

Cloning
FDA finds food from animal clones to be safe, 117
FDA-CVM officials discuss research, 1035

Colorado
Researchers to study transmission of avian influenza, 9
Research awards conferred, 10
Industry, academia forge links to train pathologists, 118
Tissue repository to advance study of cancer in dogs, 119
How to submit samples, report cases related to adulterated pet food, 459
CSU team earns equine research award, 461
Morris Animal Foundation, AVMF fund influenza research, 691
AAVLD continues to seek samples, case reports, 803
Auburn, Colorado State veterinary colleges turn 100, 805
USDA initiates cost-benefit analysis of animal identification system, 1036
Research examines contaminants in food, deaths of pets, 1279
Scientists study disease transmission among wild, domestic cats, 1280

Companion Animals
Applications due soon for student research program, 8
Study links salmonellosis to pet rodents, 120
Call for human-animal bond research proposals, 804

Comparative Medicine
Tissue repository to advance study of cancer in dogs, 119

Conference of Research Workers in Animal Diseases (CRWAD)
CRWAD honors Carmichael, 347

Consortia
Tissue repository to advance study of cancer in dogs, 119

Council for Agricultural Science and Technology (CAST)
Paper examines transgenic livestock in treatment of human disease, 581

Crisis
FAO center to rapidly respond to disease outbreaks, 7

Cyanuric Acid
Developments continue in recall of pet food, 579
Specialists confer about the pet food recall, 579
Research examines contaminants in food, deaths of pets, 1279

Databases
Diseases on the move charted, 119
Upgraded OIE animal health database available, 230
Washington, DC hosts AVMA, 923

Dermatology
Test may eliminate debilitating skin disease in horses, 692

Diabetes
Chlorate compound suppresses microbes in animals, 9

Diplomates
American College of Veterinary Pathology announces diplomates, 230
ACVCP announces diplomates, 922

Disasters
FAO center to rapidly respond to disease outbreaks, 7

Drug Approval
FDA-CVM officials discuss research, 1035

Economics
APHIS proposes to increase user fees for diagnostics, 922
USDA initiates cost-benefit analysis of animal identification system, 1036

Elections
Former VP Kinnarney wins District III Executive Board seat, 346
CRWAD honors Carmichael, 347
Krehbiel elected to AVMA board, 460
Executive Board meets, 691
Washington, DC hosts AVMA, 923

Electronic Identification
Washington, DC hosts AVMA, 923
USDA initiates cost-benefit analysis of animal identification system, 1036

Eli Lilly
Industry, academia forge links to train pathologists, 118
Emerging Infectious Diseases
Upgraded OIE animal health database available, 230
Homeland Security appoints two-year director for Plum Island, 804
Veterinarians sought for influenza-related assignments abroad, 1035

England
Horse genome sequence available, 229

Environmental Protection Agency (EPA)
Researchers study air emissions from animal feeding operations, 804

Epidemiology
Dog dies of avian influenza, 7
FAO center to rapidly respond to disease outbreaks, 7
Genetics research aids scrapie eradication, 9
Researchers to study transmission of avian influenza, 9
Diseases on the move charted, 119
University of Minnesota receives funds to study swine disease, 347
How to submit samples, report cases related to adulterated pet food, 459
CSU team earns equine research award, 461
Developments continue in recall of pet food, 579
Some veterinarians at increased risk of avian influenza virus infection, 803
Study describes pathology of feline heartworm disease, 923
Scientists study disease transmission among wild, domestic cats, 1280

Equine Regional Dermal Asthenia
Test may eliminate debilitating skin disease in horses, 692

Escherichia coli
Chlorate compound suppresses microbes in animals, 9

Euthanasia
Euthanasia guidelines for nondomestic animals available, 461
AVMA releases updated euthanasia guidelines, 923

Experimental Pathology Labs
Industry, academia forge links to train pathologists, 118

Extralabel Drug Use
Executive Board acts on animal welfare, education recommendations, 117

Feed
Chlorate compound suppresses microbes in animals, 9

Fees
APHIS proposes to increase user fees for diagnostics, 922

Florida
Research awards conferred, 10
Scientists study disease transmission among wild, domestic cats, 1280

Food and Agriculture Organization (FAO)
FAO center to rapidly respond to disease outbreaks, 7

Food and Drug Administration (FDA)
Horse deaths associated with unapproved drug, 7
Executive Board acts on animal welfare, education recommendations, 117
FDA finds food from animal clones to be safe, 117
How to submit samples, report cases related to adulterated pet food, 459
Banning antimicrobials not effective, study says, 461
Developments continue in recall of pet food, 579
Specialists confer about the pet food recall, 579
AAVLD continues to seek samples, case reports, 803
FDA issues final rule on MUMS, 922
FDA-CVM officials discuss research, 1035
Research examines contaminants in food, deaths of pets, 1279

Food Animal Industry
AAVMC examines education of food systems veterinarians, 230
Banning antimicrobials not effective, study says, 461
Researchers study air emissions from animal feeding operations, 804
USDA initiates cost-benefit analysis of animal identification system, 1036

Food Safety
FDA finds food from animal clones to be safe, 117
Food safety agency invites comments on melamine decisions, 692

Foreign Animal Diseases
Diseases on the move charted, 119
Homeland Security appoints two-year director for Plum Island, 804
New building to advance study of tuberculosis, 921
USDA shows off a facility for research, 921

France
FAO center to rapidly respond to disease outbreaks, 7

Funding
FAO center to rapidly respond to disease outbreaks, 7
Applications due soon for student research program, 8
AKC foundation funds vision research, 9
Grayson-Jockey offers new equine research award, 9
Researchers to study transmission of avian influenza, 9
Auburn to study treatment for lymphoma in dogs, 10
Executive Board acts on animal welfare, education recommendations, 117
AAFP seeks feline sarcoma research proposals, 120
LSU equine eye surgery sparks new fund, 120
Measure would increase veterinarians in public health, 346
AALAS Foundation requests proposals, 347
University of Minnesota receives funds to study swine disease, 347
Morris Animal Foundation launches cancer campaign, 461
College, school to contribute to influenza research centers, 462
Grateful clients contribute funds to veterinary colleges, 581
New AVMA initiatives move forward, 581
Executive Board meets, 691
Morris Animal Foundation, AVMF fund influenza research, 691
Test may eliminate debilitating skin disease in horses, 692
USDA shows off a facility for research, 921
MAF’s equine genetic research under way, 1036
Call for feline research proposals, 1037
AVMF earns three stars, 1141
Company funds research on porcine circovirus, 1142
Research training programs open to veterinary students, 1142
AAFP requests research proposals, 1143
Scholarship offered to attend AVMA convention, 1143
Morris Animal Foundation to fund $4.6 million in studies, 1280

Genentech
Industry, academia forge links to train pathologists, 118

Generic Drugs
Horse deaths associated with unapproved drug, 7

Genetics
Genetics research aids scrapie eradication, 9
Researchers create, evaluate prion-free cattle, 119
Horse genome sequence available, 229
New method could lead to less aggressive production animals, 346
Paper examines transgenic livestock in treatment of human disease, 581
Test may eliminate debilitating skin disease in horses, 692
MAF’s equine genetic research under way, 1036

Georgia
Research awards conferred, 10
Banning antimicrobials not effective, study says, 461
College, school to contribute to influenza research centers, 462
Morris Animal Foundation, AVMF fund influenza research, 691

Germany
FAO center to rapidly respond to disease outbreaks, 7

Glaucoma
Treatment for glaucoma shows promise, 1036

GlaxoSmithKline
Industry, academia forge links to train pathologists, 118

Grayson-Jockey Club
Grayson-Jockey offers new equine research award, 9
CSU team earns equine research award, 461

Greece
FAO center to rapidly respond to disease outbreaks, 7

Grenada
Education council schedules site visits, 9

Guidelines
Euthanasia guidelines for nondomestic animals available, 461
AAHA revises canine vaccine recommendations, 462

H
Heartworm
Study describes pathology of feline heartworm disease, 923

Hematech, Inc
Researchers create, evaluate prion-free cattle, 119

Honeybees
Veterinarians receive recognition for technology transfer, 593

Horse Genome Sequencing Project
Horse genome sequence available, 229

Howard Hughes Medical Institute
Research training programs open to veterinary students, 1142

Human-Animal Bond
Call for human-animal bond research proposals, 804
Researchers study air emissions from animal feeding operations, 804

Humane Society of the United States (HSUS)
Congress strengthens law against animal rights extremists, 7

Illinois
Research awards conferred, 10
Industry, academia forge links to train pathologists, 118

Indiana
Research awards conferred, 10
Industry, academia forge links to train pathologists, 118
New method could lead to less aggressive production animals, 346
Researchers study air emissions from animal feeding operations, 804
Research examines contaminants in food, deaths of pets, 1279

Indonesia
Researchers to study transmission of avian influenza, 9

Infectious Diseases
Scientists study disease transmission among wild, domestic cats, 1280

Influenza
College, school to contribute to influenza research centers, 462
Morris Animal Foundation, AVMF fund influenza research, 691
Some veterinarians at increased risk of avian influenza virus infection, 803
Veterinarians sought for influenza-related assignments abroad, 1035

Institute for Companion Animal Equine Research (ICAER)
New AVMA initiatives move forward, 581

International Veterinary Medicine
Upgraded OIE animal health database available, 230
Veterinarians sought for influenza-related assignments abroad, 1035

Internet
AVMA avian influenza FAQ updated, 8
Diseases on the move charted, 119

Iowa
Industry, academia forge links to train pathologists, 118
Researchers create, evaluate prion-free cattle, 119
AVMA accredits four schools, 461
Treatment at Iowa State helps blind dogs see, 692
Some veterinarians at increased risk of avian influenza virus infection, 803
Researchers study air emissions from animal feeding operations, 804
New building to advance study of tuberculosis, 921
USDA shows off a facility for research, 921
Treatment for glaucoma shows promise, 1036
Research examines contaminants in food, deaths of pets, 1279

Ireland
Education council schedules site visits, 346, 691

Johnson & Johnson Company
Grayson-Jockey offers new equine research award, 9
CSU team earns equine research award, 461

Jordan
FAO center to rapidly respond to disease outbreaks, 7

Journal of Veterinary Medical Education
AAVMC examines education of food systems veterinarians, 230

Kansas
Research awards conferred, 10

Keeneland Foundation
MAF’s equine genetic research under way, 1036

Kidneys
Developments continue in recall of pet food, 579
Specialists confer about the pet food recall, 579

Laboratory Animal Medicine
AALAS Foundation requests proposals, 347

Laminitis
Galantino-Homer named laminitis senior research investigator, 805
Legislative Acts
Congress strengthens law against animal rights extremists, 7
Horse deaths associated with unapproved drug, 7
Executive Board acts on animal welfare, education recommendations, 117
Measure would increase veterinarians in public health, 346
Workforce study examining breadth and depth of profession, 1141

Leyden Group
Industry, academia forge links to train pathologists, 118

Licensure
Executive Board meets, 691

Litigation
Congress strengthens law against animal rights extremists, 7

Livestock
Paper examines transgenic livestock in treatment of human disease, 581
USDA initiates cost-benefit analysis of animal identification system, 1036

Louisiana
Horse deaths associated with unapproved drug, 7
Research awards conferred, 10
LSU equine eye surgery sparks new fund, 120
Louisiana appoints Haynes as dean, 593

Lymphoma
Auburn to study treatment for lymphoma in dogs, 10

Maps
Diseases on the move charted, 119

Maryland
Education council schedules site visits, 9
Research awards conferred, 10
Education council schedules site visits, 346, 691
Colleges decide whether to partner with Banfield, 693
Education council schedules site visits, 1037

Massachusetts
Research awards conferred, 10

Medical Records
How to submit samples, report cases related to adulterated pet food, 459

Melamine
Developments continue in recall of pet food, 579
Specialists confer about the pet food recall, 579
Food safety agency invites comments on melamine decisions, 692
Research examines contaminants in food, deaths of pets, 1279

Merck-Merial
Industry, academia forge links to train pathologists, 118
Symposium brings together student researchers, 1143

Merck-Merial-NIH National Veterinary Scholars Symposium
Symposium brings together student researchers, 1143

Michigan
Research awards conferred, 10
Industry, academia forge links to train pathologists, 118
How to submit samples, report cases related to adulterated pet food, 459
Krehbiel elected to AVMA board, 460
USDA initiates cost-benefit analysis of animal identification system, 1036
Research examines contaminants in food, deaths of pets, 1279

Milk
Study finds prion proteins in milk, 229

Minnesota
Education council schedules site visits, 9
Research awards conferred, 10
Study links salmonellosis to pet rodents, 120
Education council schedules site visits, 346
University of Minnesota receives funds to study swine disease, 347
College, school to contribute to influenza research centers, 462
Klausner joins Animal Medical Center, leaves U of M, 582
Researchers study air emissions from animal feeding operations, 804
MAF’s equine genetic research under way, 1036

Minor Use and Minor Species Animal Health Act of 2004 (MUMS)
FDA issues final rule on MUMS, 922

Mississippi
Research awards conferred, 10
University of Mississippi welcomes new dean, 922

Missouri
Research awards conferred, 10

Montana
USDA initiates cost-benefit analysis of animal identification system, 1036

Morris Animal Foundation
Applications due soon for student research program, 8
Morris Animal Foundation launches cancer campaign, 461
Morris Animal Foundation, AVMF fund influenza research, 691
MAF’s equine genetic research under way, 1036
Call for feline research proposals, 1037
Students earn prizes for research projects, 1038
Symposium brings together student researchers, 1143
Morris Animal Foundation to fund $4.6 million in studies, 1280

Nanotechnology
FDA-CVM officials discuss research, 1035

National Academy of Sciences (NAS)
Washington, DC hosts AVMA, 923
Workforce study examining breadth and depth of profession, 1141

National Animal Identification System (NAIS)
USDA initiates cost-benefit analysis of animal identification system, 1036

National Association for Biomedical Research (NABR)
Congress strengthens law against animal rights extremists, 7

National Association of State Public Health Veterinarians (NASPHV)
Executive Board acts on animal welfare, education recommendations, 117

National Bio- and Agro-Defense Facility
Homeland Security appoints two-year director for Plum Island, 804

National Cancer Institute (NCI)
Auburn to study treatment for lymphoma in dogs, 10
Tissue repository to advance study of cancer in dogs, 119
One Health Initiative Task Force
New AVMA initiatives move forward, 581
Physicians’ association supports ties with AVMA, 803
Washington, DC hosts AVMA, 923

Ophthalmology
AKC foundation funds vision research, 9
LSU equine eye surgery sparks new fund, 120
Treatment at Iowa State helps blind dogs see, 692
Treatment for glaucoma shows promise, 1036

Oregon
Education council schedules site visits, 9
Research awards conferred, 10
Oregon State appoints Clarke as dean, 120

Orthopedics
Grayson-Jockey offers new equine research award, 9

Pain
Veterinarians receive recognition for technology transfer, 593

Pathology
Industry, academia forge links to train pathologists, 118

Pennsylvania
Research awards conferred, 10
Industry, academia forge links to train pathologists, 118
Grateful clients contribute funds to veterinary colleges, 581
Galantino-Homer named laminitis senior research investigator, 805
Symposium brings together student researchers, 1143

People for the Ethical Treatment of Animals (PETA)
Congress strengthens law against animal rights extremists, 7

Pet Food
How to submit samples, report cases related to adulterated pet
food, 459
Developments continue in recall of pet food, 579
Specialists confer about the pet food recall, 579
Food safety agency invites comments on melamine decisions, 692
AAVLD continues to seek samples, case reports, 803
Research examines contaminants in food, deaths of pets, 1279

Pfizer Animal Health
Research awards conferred, 10
Industry, academia forge links to train pathologists, 118
Morris Animal Foundation launches cancer campaign, 461

Pharmacokinetics
FDA-CVM officials discuss research, 1035

Phi Zeta Honor Society
Phi Zeta presents research awards for 2007, 1038

PLoS One
Study finds prion proteins in milk, 229

Plum Island Animal Disease Center
Homeland Security appoints two-year director for Plum Island, 804

Pollution
Researchers study air emissions from animal feeding opera-
tions, 804

Porcine Circovirus-associated Disease (PCVAD)
University of Minnesota receives funds to study swine disease, 347
Company funds research on porcine circovirus, 1142
Porcine Reproductive and Respiratory Syndrome (PRRS)  
PRRS Research Award program seeks proposals, 1037

Prions  
Genetics research aids scrapie eradication, 9
Researchers create, evaluate prion-free cattle, 119
Study finds prion proteins in milk, 229

Program for Monitoring Emerging Diseases (ProMed)-mail  
Diseases on the move charted, 119

Public Health  
AVMA avian influenza FAQ updated, 8
FDA finds food from animal clones to be safe, 117
Study links salmonellosis to pet rodents, 120
Measure would increase veterinarians in public health, 346
College, school to contribute to influenza research centers, 462
Infectious disease center increases public health impact, 580
CDC director to headline AVMA Opening Session in DC, 691
Physicians’ association supports ties with AVMA, 803
CDC shuts down some research at Texas A&M, 1141

Public Relations  
AVMA avian influenza FAQ updated, 8

Rabies  
Event to raise awareness of rabies prevention, 922

Racing  
CSU team earns equine research award, 461

Recalls  
How to submit samples, report cases related to adulterated pet food, 459
Developments continue in recall of pet food, 579
Specialists confer about the pet food recall, 579
Food safety agency invites comments on melamine decisions, 692
AAVLD continues to seek samples, case reports, 803
Research examines contaminants in food, deaths of pets, 1279

Regulations  
FDA issues final rule on MUMS, 922

Renal Failure  
Developments continue in recall of pet food, 579
Specialists confer about the pet food recall, 579

Residencies  
Industry, academia forge links to train pathologists, 118

Retirements  
Tennessee dean to retire, 1143

Rice Protein  
Developments continue in recall of pet food, 579

Risk Analysis  
FDA finds food from animal clones to be safe, 117
Food safety agency invites comments on melamine decisions, 692

Rodents  
Study links salmonellosis to pet rodents, 120

Royal Canin  
Developments continue in recall of pet food, 579

Sacramento Zoo  
Zoo names hospital for veterinary professor, 10

Salmonella spp  
Chlorate compound suppresses microbes in animals, 9
Study links salmonellosis to pet rodsents, 120

Saudi Arabia  
FAO center to rapidly respond to disease outbreaks, 7

Schering-Plough  
Industry, academia forge links to train pathologists, 118

Scrapie  
Genetics research aids scrapie eradication, 9

Sheep  
Genetics research aids scrapie eradication, 9

Society of Toxicologic Pathology (ATP)  
Industry, academia forge links to train pathologists, 118

South Africa  
Developments continue in recall of pet food, 579

South Dakota  
Researchers create, evaluate prion-free cattle, 119

Spain  
University of Minnesota receives funds to study swine disease, 347

Statistics  
Grateful clients contribute funds to veterinary colleges, 581

Student American Veterinary Medical Association (SAVMA)  
Event to raise awareness of rabies prevention, 922

Sudden Acquired Retinal Degeneration Syndrome (SARDS)  
Treatment at Iowa State helps blind dogs see, 692

Sunshine Project  
CDC shuts down some research at Texas A&M, 1141

Surgery  
LSU equine eye surgery sparks new fund, 120

Surveillance  
Dog dies of avian influenza, 7
FAO center to rapidly respond to disease outbreaks, 7
Genetics research aids scrapie eradication, 9
Diseases on the move charted, 119
FDA-CVM officials discuss research, 1035

Surveys  
How to submit samples, report cases related to adulterated pet food, 459
AAVLD continues to seek samples, case reports, 803
Workforce study examining breadth and depth of profession, 1141
Research examines contaminants in food, deaths of pets, 1279

Sweden  
FAO center to rapidly respond to disease outbreaks, 7

Switzerland  
FAO center to rapidly respond to disease outbreaks, 7

Symposia  
Executive Board meets, 691
Symposium brings together student researchers, 1143

Task Forces  
Executive Board acts on animal welfare, education recommendations, 117
New AVMA initiatives move forward, 581
Physicians’ association supports ties with AVMA, 803
Washington, DC hosts AVMA, 923

Tennessee
Research awards conferred, 10
Surgeons receive honors from world association, 10
College, school to contribute to influenza research centers, 462
Tennessee dean to retire, 1143

Terrorism
Congress strengthens law against animal rights extremists, 7
Homeland Security appoints two-year director for Plum Island, 804
New building to advance study of tuberculosis, 921
USDA shows off a facility for research, 921

Texas
Research awards conferred, 10
Researchers create, evaluate prion-free cattle, 119
Researchers study air emissions from animal feeding operations, 804
CDC shuts down some research at Texas A&M, 1141

Thailand
Dog dies of avian influenza, 7

Theriogenology
New method could lead to less aggressive production animals, 346
MAF’s equine genetic research under way, 1036

Thoroughbreds
CSU team earns equine research award, 461

Toxicology
How to submit samples, report cases related to adulterated pet food, 459
Developments continue in recall of pet food, 579
AAVLD continues to seek samples, case reports, 803
Research examines contaminants in food, deaths of pets, 1279

Transmissible Spongiform Encephalopathies (TSEs)
Researchers create, evaluate prion-free cattle, 119
Study finds prion proteins in milk, 229

Tuberculosis
New building to advance study of tuberculosis, 921

Tumor Bank
Morris Animal Foundation launches cancer campaign, 461

United Kingdom
University of Minnesota receives funds to study swine disease, 347
Call for human-animal bond research proposals, 804
Researchers study air emissions from animal feeding operations, 804
Event to raise awareness of rabies prevention, 922

United Nations (UN)
Veterinarians sought for influenza-related assignments abroad, 1035

United States
FAO center to rapidly respond to disease outbreaks, 7
US Armed Forces
Workforce study examining breadth and depth of profession, 1141

US Congress
Congress strengthens law against animal rights extremists, 7
Measure would increase veterinarians in public health, 346
Developments continue in recall of pet food, 579

US Department of Agriculture (USDA)
Chlorate compound suppresses microbes in animals, 9
Genetics research aids scrapie eradication, 9
Researchers create, evaluate prion-free cattle, 119
DeHaven named AVMA executive vice president, 460
Veterinarians receive recognition for technology transfer, 593
Food safety agency invites comments on melamine decisions, 692
USDA shows off a facility for research, 921
APHIS proposes to increase user fees for diagnostics, 922
USDA initiates cost-benefit analysis of animal identification system, 1036

US Department of Health and Human Services (HHS)
Infectious disease center increases public health impact, 580

US Department of Homeland Security (DHS)
Homeland Security appoints two-year director for Plum Island, 804

US Public Health Service (PHS)
Workforce study examining breadth and depth of profession, 1141

US State Department
Veterinarians sought for influenza-related assignments abroad, 1035

V

Vaccine-associated Sarcomas
AAFP seeks feline sarcoma research proposals, 120

Vaccinology
AAHA revises canine vaccine recommendations, 462

Ventipulmin
Horse deaths associated with unapproved drug, 7

Veterinary Colleges and Schools
Grateful clients contribute funds to veterinary colleges, 581

Veterinary Education
Applications due soon for student research program, 8
Industry, academia forge links to train pathologists, 118
Measure would increase veterinarians in public health, 346
Executive Board meets, 691
Colleges decide whether to partner with Banfield, 693
Research training programs open to veterinary students, 1142

Veterinary Facilities
Zoo names hospital for veterinary professor, 10
Colleges decide whether to partner with Banfield, 693
New building to advance study of tuberculosis, 921
USDA shows off a facility for research, 921
Cornell opens $55 million animal care facility, 922
FDA-CVM officials discuss research, 1035

Veterinary Manpower
Workforce study examining breadth and depth of profession, 1141

Veterinary Profession
Search continues for new AVMA executive vice president, 8
Industry, academia forge links to train pathologists, 118
AAVMC examines education of food systems veterinarians, 230
Measure would increase veterinarians in public health, 346
Workforce study examining breadth and depth of profession, 1141

Veterinary Public Health Workforce Expansion Act
Measure would increase veterinarians in public health, 346
Workforce study examining breadth and depth of profession, 1141

Veterinary Specialties
Industry, academia forge links to train pathologists, 118

Veterinary Students
Applications due soon for student research program, 8
Students earn prizes for research projects, 1038

Virginia
Education council schedules site visits, 9
Research awards conferred, 10
Education council schedules site visits, 346, 691
Colleges decide whether to partner with Banfield, 693
Education council schedules site visits, 1037

Virginia-Maryland Regional College of Veterinary Medicine
Education council schedules site visits, 9
Research awards conferred, 10

Virology
College, school to contribute to influenza research centers, 462

W
Waltham Centre for Pet Nutrition
Call for human-animal bond research proposals, 804
Researchers study air emissions from animal feeding operations, 804

Washington
Research awards conferred, 10
Industry, academia forge links to train pathologists, 118
Researchers study air emissions from animal feeding operations, 804

Washington State University
Research awards conferred, 10

Wellcome Trust Sanger Institute
Horse genome sequence available, 229

Western University of Health Sciences
Research awards conferred, 10

West Indies
Education council schedules site visits, 9

Wheat Gluten
Developments continue in recall of pet food, 579

Wildlife
Applications due soon for student research program, 8
Scientists study disease transmission among wild, domestic cats, 1280

Winn Feline Foundation
Call for feline research proposals, 1037

Wisconsin
Research awards conferred, 10
Surgeons receive honors from world association, 10
Tissue repository to advance study of cancer in dogs, 119
AAHA revises canine vaccine recommendations, 462

World Animal Health Information Database
Upgraded OIE animal health database available, 230

World Bank
Veterinarians sought for influenza-related assignments abroad, 1035

World Health Organization (WHO)
Diseases on the move charted, 119
Veterinarians sought for influenza-related assignments abroad, 1035

World Rabies Day
Event to raise awareness of rabies prevention, 922

World Small Animal Veterinary Association (WSAVA)
Surgeons receive honors from world association, 10

World Veterinary Association (WVA)
Event to raise awareness of rabies prevention, 922

World Wide Web
AVMA avian influenza FAQ updated, 8

Wyeth
Industry, academia forge links to train pathologists, 118

Z
Zoo and Wildlife Medicine
Euthanasia guidelines for nondomestic animals available, 461

Zoological Gardens
Zoo names hospital for veterinary professor, 10

Zoonoses
Dog dies of avian influenza, 7
Researchers to study transmission of avian influenza, 9
Diseases on the move charted, 119
McPhail, Tobie, 8
Medianero, Anibal GA, 230
Meek, Katheryn D, 10
Meseck, Emily K, 230
Meyer, Jonathan, 230
Mickelson, Jim, 1036
Millis, Darryl L, 10
Minter, Larry JB, 1038
Mongoh, M Ndiva, 348
Moore, Cecil, 922
Moore, George E, 1280
Moore, Julie M, 10
Morthole, Venee I, 230
Muir, William, III, 347
Murphy, Christopher, 10
Murphy, William J, 1280
Myers, Kendall, 803
Nabity, Mary B, 230
Nave, James E, 924
Neimanis, Aleksija, 230
Nelson, Phillip D, 804
Newkirk, Kimberly, 230
Noh, Susan M, 230
Nunes, Jairo EDS, 230
O’Berry, Phillip, 347
Odani, Jenee S, 230
Oeller, Margaret, 693
Oliver, Alicia, 119
Olsen, Tracy, 1280
Olson, Neil, 922
Opriessnig, Tanja, 1142
Ostestock, JB, 348
Painter, Jon T, 230
Pallatto, Valarie A, 230
Papenfuss, Tracey L, 230
Pappianou, Marguerite, 921
Pao, Marlene, 230
Pardo, Ingrid DR, 230
Parker, Gerald, 8
Patten, Penny K, 230
Peta, Heidi GR, 230
Petrenko, Valery, 10
Phillips, Lucy, 230
Pidgeon, Guy L, 582
Pitkin, AN, 348
Powe, Joshua, 230
Powers, Barbara, 459, 804, 1279
Powers, Jeffrey F, 346, 460
Prager, Katherine, 1280
Puchner, Birgit, 1279
Pullen, Michael M, 924
Rao, Srinivas S, 230
Rehagen, David A, 230
Remick, Amera K, 230
Reynolds, Don, 924
Reynolds, James P, 924
Rhodes, R Tracy, 1141
Richt, Jürgen, 119
Rickman, Barry H, 230
Rinaldi, M, 348
Ritter, Jana, 119
Rodriguez, Luis, 693
Rollin, Bernard E, 924
Ross, Richard, 347
Rozmanec, Michael, 230
Rumbeinha, Wilson, 459, 1279
Rush, John E, 10
Ruston, Steven D, 230
Russell, Leon H, Jr, 924
Sabin, Elizabeth A, 1038
Sakaguchi, Donald, 1036
Salman, MD “Mo,” 924
Sanchez, Melissa, 119
Sargeant, Aaron, 119
Schefer, Deanna MW, 230, 1038
Schonholz, Gleniss, 582
Schuchat, Anne, 580
Schultz, Bruce, 10
Schultz, Ron D, 462
Schurig, Gerhardt, 693
Schutten, Melissa M, 230
Sebastian, Manu M, 230
Sikora, Kathy, 1279
Simmons, Donald G, 9, 346, 691, 924
Skalski, Justin, 924
Smith, Annette, 10
Smith, Bruce, 10
Smith, Donald F, 922
Smith, Mark A, 230
Sotirakopoulos, Andrea, 806
Stallknecht, David, 692
Stoffregen, Deidre E, 230
Stokes, Greene, Laura, 1038
Sundlof, Stephen F, 117, 459, 1035
Swayne, David E, 693
Swecker, William S, 924
Szladovits, Balazs, 230
Tellez, Guillermo, 693
Thomson, John U, 461
Tizard, Ian, 348
Todhunter, Rory J, 1038
Tommelen, Lisa, 1141
Travis, Alexander, 10
Troutt, H Fred, 924
Turner, Patricia, 1143
Uzal, Francisco A, 230
Valberg, Stephanie, 1036
Valentine, Beth, 10
VandeWoude, Sue, 1280
Virm, Eric, 10
Voris, Nathan D, 924
Waddell, John T, 924
Walc, Heather, 230
Wancket, Lyn, 119
Warren, Amy L, 230
Waters, W Ray, 921
Whiteley, Herbert E, 924
Whiteley, Elizabeth, 10
Whitten, Kimberly A, 230
Wilke, David, 9
Wise, J Karl, 229
Wise, Kim, 347
Witonsky, Sharon G, 10
Witter, Richard L, 120
Wittum, Thomas E, 10
Woodroffe, Rosie, 1280
Workman, Heather C, 230
Zabka, Tanja S, 230
### Index to Subjects

<table>
<thead>
<tr>
<th>A77 1726</th>
<th>In vitro effects of the active metabolite of leflunomide, A77 1726, on feline herpesvirus-1 [CR Williams et al], 1010</th>
</tr>
</thead>
<tbody>
<tr>
<td>α2-adrenoceptors</td>
<td>In vivo evaluation of α2-adrenoceptors in cats with idiopathic cystitis [JL Westropp et al], 203</td>
</tr>
<tr>
<td>Abomasum</td>
<td>Effect of parenteral administration of erythromycin, tilmicosin, and tylosin on abomasal emptying rate in suckling calves [M Nouri et al], 1392</td>
</tr>
<tr>
<td>Acetaminophen</td>
<td>Retention of acetaminophen in an in vitro model of solid-phase gastric emptying of animals [CA Wyse et al], 895</td>
</tr>
<tr>
<td>Acidosis</td>
<td>Effects of hypertonic sodium bicarbonate solution on electrolyte concentrations and enzyme activities in newborn calves with respiratory and metabolic acidosis [UT Bleul et al], 850</td>
</tr>
<tr>
<td>Adenosine</td>
<td>Pharmacologic characterization of novel adenosine A2a receptor agonists in equine neutrophils [W Sun et al], 981</td>
</tr>
<tr>
<td>Adenosine A2A</td>
<td>Effects of stimulation of adenosine A2A receptors on lipopolysaccharide-induced production of reactive oxygen species by equine neutrophils [W-C Sun et al], 649</td>
</tr>
<tr>
<td>Adenosine Diphosphate</td>
<td>Alteration of release and role of adenosine diphosphate and thromboxane A2 during collagen-induced aggregation of platelets from cattle with Chediak-Higashi syndrome [N Honda et al], 1399</td>
</tr>
<tr>
<td>Adhesion</td>
<td>Phosphodiesterase isoenzymes in equine platelets and their influence on platelet adhesion [B Dunkel et al], 1354</td>
</tr>
<tr>
<td>Adiponectin</td>
<td>Serum concentrations of adiponectin and characterization of adiponectin protein complexes in dogs [BL Brunson et al], 57</td>
</tr>
<tr>
<td>Adrenal Glands</td>
<td>Effect of low doses of cosyntropin on serum cortisol concentrations in clinically normal dogs [LG Martin et al], 555</td>
</tr>
<tr>
<td>Adsorbent</td>
<td>Effects of foodborne Fusarium mycotoxins with and without a polymeric glucomannan mycotoxin adsorbent on food intake and nutrient digestibility, body weight, and physical and clinico-pathologic variables of mature dogs [MKK Leung et al], 1122</td>
</tr>
<tr>
<td>African Swine Fever Virus</td>
<td>Serum concentrations of C-reactive protein, serum amyloid A, and haptoglobin in pigs inoculated with African swine fever or classical swine fever viruses [PJ Sánchez-Cordón et al], 772</td>
</tr>
<tr>
<td>Agonists</td>
<td>Pharmacologic characterization of novel adenosine A2A receptor agonists in equine neutrophils [W Sun et al], 981</td>
</tr>
<tr>
<td>Airway</td>
<td>Association of expiratory airway dysfunction with marked obesity in healthy adult dogs [JF Bach et al], 670</td>
</tr>
<tr>
<td>Albumin</td>
<td>Response of healthy dogs to infusions of human serum albumin [LA Cohn et al], 657</td>
</tr>
<tr>
<td>Assessment of a point-of-care biochemical analyzer and comparison with a commercial laboratory for the measurement of total protein and albumin concentrations in psittacines [MS Johnston et al], 1348</td>
<td></td>
</tr>
<tr>
<td>Aldosterone</td>
<td>Modulation of the tissue renin-angiotensin-aldosterone system in dogs with chronic mild regurgitation through the mitral valve [T Fuji et al], 1045</td>
</tr>
<tr>
<td>Alkalization</td>
<td>Effects of urine alkalization and activated charcoal on the pharmacokinetics of orally administered carprofen in dogs [MR Raekallio et al], 423</td>
</tr>
<tr>
<td>Alleles</td>
<td>Development of quantitative polymerase chain reaction assays for allelic discrimination of gangliosidoses in cats [C-YJ Wang et al], 231</td>
</tr>
<tr>
<td>AMP</td>
<td>Biochemical and genetic evaluation of the role of AMP-activated protein kinase in polysaccharide storage myopathy in Quarter Horses [PK Dranchak et al], 1079</td>
</tr>
<tr>
<td>Amyloid</td>
<td>Serum concentrations of C-reactive protein, serum amyloid A, and haptoglobin in pigs inoculated with African swine fever or classical swine fever viruses [PJ Sánchez-Cordón et al], 772</td>
</tr>
<tr>
<td>Analgesia</td>
<td>Pharmacokinetics and pharmacodynamics of morphine in llamas [SR Uhrig et al], 25</td>
</tr>
<tr>
<td>Effects of buprenorphine on nociception and spontaneous locomotor activity in horses [AB Carregaro et al], 248</td>
<td></td>
</tr>
<tr>
<td>Efficacy of tiludronate in the treatment of horses with signs of pain associated with osteoarthritic lesions of the thoracolumbar vertebral column [V Coudry], 329</td>
<td></td>
</tr>
<tr>
<td>Antinociceptive effects of butorphanol, buprenorphine, or both, administered intramuscularly in cats [JA Johnson et al], 699</td>
<td></td>
</tr>
<tr>
<td>Analytic &amp; Diagnostic Techniques</td>
<td>Prospective screening for occult cardiomyopathy in dogs by measurement of plasma atrial natriuretic peptide, B-type natriuretic peptide, and cardiac troponin-I concentrations [MA Oyama et al], 42</td>
</tr>
<tr>
<td>Evaluation of the repeatability of thorinomanometry and its use in assessing transnasal resistance and pressure in dogs [TS Wiestner et al], 178</td>
<td></td>
</tr>
<tr>
<td>Development of quantitative polymerase chain reaction assays for allelic discrimination of gangliosidoses in cats [C-YJ Wang et al], 231</td>
<td></td>
</tr>
<tr>
<td>Field testing of an enhanced direct-fecal polymerase chain reaction procedure, bacterial culture of feces, and a serum enzyme-linked immunosorbent assay for detecting Mycobacterium avium subsp. paratuberculosis infection in adult dairy cattle [HM Scott et al], 236</td>
<td></td>
</tr>
</tbody>
</table>
Evaluation of a combined transcutaneous carbon dioxide pressure and pulse oximetry sensor in adult sheep and dogs [R Vogt et al], 265

Urinary biomarkers to assess exposure of cats to environmental tobacco smoke [EA McNiel et al], 349

Evaluation of agreement between two instruments in measurements of radiation dose rates in cats that underwent iodine I 131 treatment [HJ Chalmers et al], 354

An indirect flow cytometric test for detection of anti-neutrophil antibodies in dogs [DJ Weiss et al], 464

Evaluation of an accelerometer for at-home monitoring of spontaneous activity in dogs [BD Hansen et al], 468

Purification and partial characterization of canine neutrophil elastase and the development of an immunoassay for the measurement of canine neutrophil elastase in serum obtained from dogs [A Stoll et al], 584

Development and psychometric testing of an instrument designed to measure chronic pain in dogs with osteoarthritis [DC Brown et al], 631

Optimization of a species-specific polymerase chain reaction assay for identification of Pentatrichomonas hominis in canine fecal specimens [JL Gookin et al], 783

Validity of goniometric joint measurements in cats [GH Jaeger et al], 822

Comparison of the complement fixation tests and competitive ELISA for serodiagnosis of Anaplasma marginale infection in experimentally infected steers [JF Coetzee et al], 872

Dorsolateral approach for the arthrocentesis of the centrodigital joint in horses [EM Just et al], 946

Evaluation of a turbidimetric immunoassay for measurement of plasma IgG concentration in foals [PM McCue et al], 1005

Evaluation of thermographic imaging of the limbs of healthy dogs [CA Loughlin et al], 1064

Accuracy of asymmetry indices of ground reaction forces for diagnosis of hind limb lameness in dogs [L Fanchon et al], 1089

Assessment of three automated assays for C-reactive protein determination in dogs [BA Fransson et al], 1281

Use of bispectral index to monitor depth of anesthesia in isoflurane-anesthetized dogs [CJ Covert et al], 1300

Evaluation of a bench-top coagulation analyzer for measurement of prothrombin time, activated partial thromboplastin time, and fibrinogen concentrations in healthy dogs [IN Mineo et al], 1342

Assessment of a point-of-care biochemical analyzer and comparison with a commercial laboratory for the measurement of total protein and albumin concentrations in psittacines [MS Johnston et al], 1348

Anaplasma marginale

Comparison of the complement fixation tests and competitive ELISA for serodiagnosis of Anaplasma marginale infection in experimentally infected steers [JF Coetzee et al], 872

Analyzers

Assessment of a point-of-care biochemical analyzer and comparison with a commercial laboratory for the measurement of total protein and albumin concentrations in psittacines [MS Johnston et al], 1348

Anatomy

Density and morphologic features of primary epidermal laminae in the feet of three-year-old racing Quarter Horses [LS Lancaster et al], 11

Influence of extracellular matrix on bovine mammary gland progenitor cell growth and differentiation [MS Holland et al], 476

Morphologic and biochemical characterization of hyperextension of the metacarpophalangeal and metatarsophalangeal joints in llamas [SK Reed et al], 879

Endoscopic evaluation of bronchial morphology in rabbits [LR Johnson et al], 1022

Anesthesiology

Anesthesia induced by administration of xylazine hydrochloride alone or in combination with ketamine hydrochloride and reversal by administration of yohimbine hydrochloride in captive Axis deer (Axis axis) [SD Sontakke et al], 11

Evaluation of cardiovascular effects of total intravenous anesthesia with propofol or a combination of ketamine-medetomidine-propofol in horses [MA Umar et al], 121

Comparison of noninvasive cardiac output measured by use of partial carbon dioxide rebreathing or the lithium dilution method in anesthetized foals [GA Valverde et al], 141

Cardiac evaluation of anesthetized Grey’s zebras (Eyuus grevyi) [DB Adin et al], 148

Evaluation of a combined transcutaneous carbon dioxide pressure and pulse oximetry sensor in adult sheep and dogs [R Vogt et al], 265

Comparison of cardiopulmonary responses during sedation with epidural and local anesthesia for laparoscopic-assisted jejunostomy feeding tube placement with cardiopulmonary responses during general anesthesia for laparoscopic-assisted or open surgical jejunostomy feeding tube placement in healthy dogs [SA Hewitt et al], 358

Changes in the myocardial performance index during dobutamine administration in anesthetized cats [Y Hori et al], 385

Response of hypotensive dogs to dopamine hydrochloride and dobutamine hydrochloride during deep isoflurane anesthesia [MC Rosati et al], 483

Plasma concentration and local anesthetic activity of procaine hydrochloride following subcutaneous administration to horses [NL Kuchembuck et al], 495

Cardiorespiratory effects and efficacy of morphine sulfate in winter flounder (Pseudopleuronectes americanus) [NC Newby et al], 592

Respiratory, mechanics in sedated and nonsedated adult llamas [KS Lascola et al], 676

Influence of three anesthetic protocols on glomerular filtration rate in dogs [M Fusellier et al], 807

Computed tomographic analysis of the efforts of two inspired oxygen concentrations on pulmonary aeration in anesthetized and mechanically ventilated dogs [F Staffieri et al], 925

Effects of remifentanil infusion regimens on cardiovascular function and responses to noxious stimulation in propofol-anesthetized cats [M doAO Correa et al], 932

Cardiopulmonary effects of administration of a combination solution of xylazine, guaifenesin, and ketamine or inhaled isoflurane in mechanically ventilated calves [CL Kerr et al], 1287

Effects of pergolide on the minimum alveolar concentration of isoflurane in dogs [T Kushiro et al], 1294

Use of bispectral index to monitor depth of anesthesia in isoflurane-anesthetized dogs [D Campagnol et al], 1300

Effects of epidural administration of dexmedetomidine on the minimum alveolar concentration of isoflurane in dogs [D Campagnol et al], 1308

Anthelmintics

Bioavailability of a commercial formulation of ivermectin after subcutaneous administration to sheep [A Gonzalez Canga et al], 101

Efficacy of fenbendazole for treatment of cats experimentally infected with Trichromonas foetus [JL Gookin et al], 1085

Antiepileptics

Assessment of antiepileptic drugs as substrates for canine P-glycoprotein [CL West et al], 1106

Antifungals

Pharmacokinetics of voriconazole following intravenous and oral administration and body fluid concentrations of voriconazole following repeated oral administration in horses [CMH Collitz et al], 1115
Antimicrobials
Effects of porcine small intestinal submucosa on elution characteristics of gentamicin-impregnated plaster of Paris [MR Seddighi et al], 171
Ocular and systemic manifestations after oral administration of a high dose of enrofloxacin in cats [MM Ford et al], 190
Mutant-prevention concentrations of enrofloxacin for Escherichia coli isolates from chickens [Q Li et al], 812
Pharmacokinetics of gallium maltolate after intragastric administration in neonatal foals [RJ Martens et al], 1041
Antimicrobial activity of bovine bactericidal permeability-increasing protein-derived peptides against gram-negative bacteria isolated from the milk of cows with clinical mastitis [A Chockalingma et al], 1151
Effect of parenteral administration of erythromycin, tilmicosin, and tylosin on abomasal emptying rate in suckling calves [M Nouri et al], 1392

Antimicrobial Susceptibility
Changes in antimicrobial susceptibility in a population of Escherichia coli isolated from feedlot cattle administered ceftiraxone crystalline-free acid [TC Lawrence et al], 501
Pulsed-field gel electrophoresis patterns and antimicrobial susceptibility phenotypes for coagulase-positive staphylococcal isolates from pustules and carriage sites in dogs with superficial bacterial folliculitis [LR Pinchbeck et al], 535

Antiseptics
Evaluation of a combination of sodium hypochlorite and polyhexamethylene biguanide as an egg wash for red-eared slider turtles (Trachemys scripta elegans) to suppress or eliminate Salmonella organisms on egg surfaces and in hatchlings [MA Mitchell et al], 158

Aorta
Time-frequency and complexity analyses for differentiation of physiologic murmurs from heart murmurs caused by aortic stenosis in Boxers [K Höglund et al], 962

Arteries
Effects of Rho-kinase and Src protein tyrosine kinase inhibition on agonist-induced vasocostriction of arteries and veins of the equine laminar dermis [TP Robertson et al], 886

Arthrocentesis
Dorsolateral approach for the arthrocentesis of the centrodistal joint in horses [EM Just et al], 946

Asthma
Effects of cyproheptadine and cetirizine on eosinophilic airway inflammation in cats with experimentally induced asthma [EK Schooley et al], 1265

Asymmetry
Accuracy of asymmetry indices of ground reaction forces for diagnosis of hind limb lameness in dogs [L Fanchon et al], 1089

Atrial Natriuretic Peptide
Prospective screening for occult cardiomyopathy in dogs by measurement of plasma atrial natriuretic peptide, B-type natriuretic peptide, and cardiac troponin-I concentrations [MA Oyama et al], 42

Atrium
Methods and reliability of echocardiographic assessment of left atrial size and mechanical function in horses [CC Schwarzwald et al], 735

Avocado
Evaluation of avocado and soybean unsaponifiable extracts for treatment of horses with experimentally induced osteoarthrosis [CE Kawcak et al], 598

Bacillus Calmette-Guerin
Evaluation of a novel immunomodulator composed of human chorionic gonadotropin and bacillus Calmette-Guerin for treatment of canine mast cell tumors in clinically affected dogs [CJ Henry et al], 1246

Bacteria
Evaluation of fecal samples from mares as a source of Rhodococcus equi for their foals by use of a quantitative bacteriologic culture and colony immunoblot analyses [MB Grimm et al], 63
Evaluation of a combination of sodium hypochlorite and polyhexamethylene biguanide as an egg wash for red-eared slider turtles (Trachemys scripta elegans) to suppress or eliminate Salmonella organisms on egg surfaces and in hatchlings [MA Mitchell et al], 158
Field testing of an enhanced direct-fecal polymerase chain reaction procedure, bacterial culture of feces, and a serum enzyme-linked immunosorbent assay for detecting Mycobacterium avium subsp paratuberculosis infection in adult dairy cattle [HM Scott et al], 236
Breaking strength and elasticity of synthetic absorbable suture materials incubated in phosphate-buffered saline solutions, milk, and milk contaminated with Streptococcus agalactiae [SN Nichols et al], 441
Changes in antimicrobial susceptibility in a population of Escherichia coli isolated from feedlot cattle administered ceftiraxone crystalline-free acid [TC Lawrence et al], 501
Pulsed-field gel electrophoresis patterns and antimicrobial susceptibility phenotypes for coagulase-positive staphylococcal isolates from pustules and carriage sites in dogs with superficial bacterial folliculitis [LR Pinchbeck et al], 535

Arthrocentesis
Evaluation of fecal samples from mares as a source of Rhodococcus equi for their foals by use of a quantitative bacteriologic culture and colony immunoblot analyses [MB Grimm et al], 63

Bacteriologic Culture
Evaluation of fecal samples from mares as a source of Rhodococcus equi for their foals by use of a quantitative bacteriologic culture and colony immunoblot analyses [MB Grimm et al], 63
Prevalence of feline herpesvirus 1, Chlamydia felis, and Mycoplasma spp DNA in conjunctival cells collected from cats with and without conjunctivitis [HC Low et al], 843
Role of the MAPKexm pathway in regulation of cytokine expression by Mycobacterium avium subsp paratuberculosis-exposed bovine monocytes [CD Souza et al], 625

Belgian Shepherd Dogs
Identification of serum biomarkers for canine B-cell lymphoma [A Chockalingma et al], 1151
Evaluation of a novel immunomodulator composed of human chorionic gonadotropin and bacillus Calmette-Guerin for treatment of canine mast cell tumors in clinically affected dogs [CJ Henry et al], 1246

Bicyclomycin
Evaluation of a novel immunomodulator composed of human chorionic gonadotropin and bacillus Calmette-Guerin for treatment of canine mast cell tumors in clinically affected dogs [CJ Henry et al], 1246

BacteRiolObic Culture
Evaluation of fecal samples from mares as a source of Rhodococcus equi for their foals by use of a quantitative bacteriologic culture and colony immunoblot analyses [MB Grimm et al], 63

B-Cell Lymphoma
Identification of serum biomarkers for canine B-cell lymphoma by use of surface-enhanced laser desorption-ionization time-of-flight mass spectrometry [PJ Gaines et al], 405

Belgian Shepherd Dogs
Identification of serum biomarkers for canine B-cell lymphoma by use of surface-enhanced laser desorption-ionization time-of-flight mass spectrometry [PJ Gaines et al], 405

Bethanechol
In vitro effects of bethanechol on specimens of intestinal...
smooth muscle obtained from the duodenum and jejunum of healthy dairy cows [JBR Pfeiffer et al], 313

Bioavailability
Bioavailability of a commercial formulation of ivermectin after subcutaneous administration to sheep [A Gonzalez Canga et al], 101

Biochemistry
Assessment of a point-of-care biochemical analyzer and comparison with a commercial laboratory for the measurement of total protein and albumin concentrations in psittacines [MS Johnston et al], 1348

Biomechanics
Influence of borderline hip dysplasia on joint kinematics of clinically sound Belgian Shepherd dogs [BA Bockstahler et al], 271
Validation of two-dimensional kinematic analysis of walk and sit-to-stand motions in dogs [LC Feeney et al], 277

Biometrics
Effects of vertebral mobilization and manipulation on kinematics of the thoracolumbar region [KK Haussler et al], 508

Birds
Assessment of a point-of-care biochemical analyzer and comparison with a commercial laboratory for the measurement of total protein and albumin concentrations in psittacines [MS Johnston et al], 1348

Birth Date
Evaluation of the influences of exercise, birth date, and osteochondrosis on plasma bone marker concentrations in Hanoverian Warmblood foals [I Vervuert et al], 1319

Bispectral Index
Use of bispectral index to monitor depth of anesthesia in isoflurane-anesthetized dogs [D Campagnol et al], 1300

Black Walnuts
Neutrophil myeloperoxidase measurements in plasma, laminar tissue, and skin of horses given black walnut extract [LM Riggs et al], 81
Early laminar events involving endothelial activation in horses with black walnut-induced laminitis [JP Loftus et al], 1205

Bladder
In vivo evaluation of α2-adrenoceptors in cats with idiopathic cystitis [JL Westropp et al], 203

Blood Pressure
Response of hypotensive dogs to dopamine hydrochloride and dobutamine hydrochloride during deep isoflurane anesthesia [M Rosati et al], 483

Bluetongue Virus
Regional seroprevalence of bluetongue virus in cattle in Illinois and western Indiana [TC Boyer et al], 1212

Bone
Effects of continuous oral administration of phenylbutazone on biomarkers of cartilage and bone metabolism in horses [MÉ Fradette et al], 128
Effects of a magnesium adhesive cement on bone stability and healing following a metatarsal osteotomy in horses [M Wasealu et al], 370
Evaluation of increased subchondral bone density in areas of contact in the metacarpophalangeal joint during joint loading in horses [KL Easton et al], 816
Comparison of two doses of recombinant human bone morphogenetic protein in absorbable collagen sponges for bone healing in dogs [CW Schmiedt et al], 834
Subchondral bone density and cartilage degeneration patterns in osteoarthritic metacarpal condyles of horses [BD Young et al], 841

Bone Markers
Evaluation of the influences of exercise, birth date, and osteochondrosis on plasma bone marker concentrations in Hanoverian Warmblood foals [I Vervuert et al], 1319

Bone Marrow
Isolation and characterization of bone marrow-derived equine mesenchymal stem cells [SJ Arnhold et al], 1095

Bone Morphogenetic Protein
Comparison of two doses of recombinant human bone morphogenetic protein in absorbable collagen sponges for bone healing in dogs [CW Schmiedt et al], 834

Book Reviews
Handbook of Primate Husbandry and Welfare, by Sarah Wolfensohn & Paul Honess [MS Landl], 1040
Nutrient Requirements of Horses (Animal Nutrition Series) (6th ed), by the National Research Council [AW Groce], 1040

Bovine Leukemia Virus
Timing of seroconversion and acquisition of positive polymerase chain reaction assay results in calves experimentally infected with bovine leukemia virus [DW Nagy et al], 72
Determination of proviral load in bovine leukemia virus-infected cattle with and without lymphocytosis [MA Juliarena et al], 1220

Bovine Viral Diarrhea Virus (BVDV)
Characterization of protection against systemic infection and disease from experimental bovine viral diarrhea virus type 2 infection by use of a modified-live noncytopathic type 1 vaccine in calves [CL Kelling et al], 788
Fetal protection against continual exposure to bovine viral diarrhea virus following administration of a vaccine containing an inactivated bovine viral diarrhea virus fraction to cattle [DL Grooms et al], 1417

Boxers
Evaluation of serum cardiac troponin I concentration in Boxers with arrhythmogenic right ventricular cardiomyopathy [RD Baumwart et al], 524
Time-frequency and complexity analyses for differentiation of physiologic murmurs from heart murmurs caused by aortic stenosis in Boxers [K Höglund et al], 962
Desmosomal gene evaluation in Boxers with arrhythmogenic right ventricular cardiomyopathy [KM Meurs et al], 1338

Bronchi
Endoscopic evaluation of bronchial morphology in rabbits [LR Johnson et al], 1022

Bronchitis
Quantification of mucin gene expression in tracheobronchial epithelium of healthy dogs and dogs with chronic bronchitis [EC Hawkins et al], 435

B-type Natriuretic Peptide
Prospective screening for occult cardiomyopathy in dogs by measurement of plasma atrial natriuretic peptide, B-type natriuretic peptide, and cardiac troponin-I concentrations [MA Oyama et al], 42

Buprenorphine
Effects of buprenorphine on nociception and spontaneous locomotor activity in horses [AB Carregaro et al], 246
Antinociceptive effects of butorphanol, buprenorphine, or both, administered intramuscularly in cats [JA Johnson et al], 699

**Butorphanol**
Antinociceptive effects of butorphanol, buprenorphine, or both, administered intramuscularly in cats [JA Johnson et al], 699

**Caffeine**
Comparison of the effects of caffeine and doxapram on respiratory and cardiovascular function in foals with induced respiratory acidosis [S Giguère et al], 1407

**Calcitonin Gen-related Peptide**
Immunohistochemical evaluation of substance P and calcitonin gene-related peptide in skin and peristeum after extracorporeal shock wave therapy and radial pressure wave therapy in sheep [JM Abed et al], 323

**Calcium**
Effect of voltage-gated and capacitative calcium entry blockade on agonist-induced constriction of equine laminar blood vessels [JF Peroni et al], 722

**Camelids**
Pharmacokinetics and pharmacodynamics of morphine in llamas [SR Uhrig et al], 25

**Canarypox**
Evaluation of the ability of canarypox-vectored equine influenza virus vaccines to induce humoral immune responses against canine influenza viruses in dogs [K Karaca et al], 208
Efficacy of a canarypox-vectored recombinant vaccine expressing the hemagglutinin gene of equine influenza H3N8 virus in the protection of ponies from viral challenge [JM Minke et al], 213

**Cancer**
Prevalence of obese dogs in a population of dogs with cancer [LP Weeth et al], 389

**Canine Influenza Virus**
Evaluation of the ability of canarypox-vectored equine influenza virus vaccines to induce humoral immune responses against canine influenza viruses in dogs [K Karaca et al], 208

**Capillaries**
Effect of exercise on development of capillary supply and oxidative capacity in skeletal muscle of horses [NJ Rietbroek et al], 1226

**Carbohydrates**
Serial alterations in digital hemodynamics and endothelin-1 immunoreactivity, platelet-neutrophil aggregation, and concentrations of nitric oxide, insulin, and glucose in blood obtained from horses following carbohydrate overload [SC Eades et al], 87

**Carbon Dioxide**
Comparison of noninvasive cardiac output measured by use of partial carbon dioxide rebreathing or the lithium dilution method in anesthetized foals [A Valverde et al], 141
Evaluation of a combined transcutaneous carbon dioxide pressure and pulse oximetry sensor in adult sheep and dogs [R Vogt et al], 265

**Cardiac Output**
Comparison of noninvasive cardiac output measured by use of partial carbon dioxide rebreathing or the lithium dilution method in anesthetized foals [A Valverde et al], 141

**Cardiomyopathy**
Prospective screening for occult cardiomyopathy in dogs by measurement of plasma atrial natriuretic peptide, B-type natriuretic peptide, and cardiac troponin-I concentrations [MA Oyama et al], 42
Evaluation of serum cardiac troponin I concentration in Boxers with arrhythmogenic right ventricular cardiomyopathy [RD Baumwart et al], 524
Desmosomal gene evaluation in Boxers with arrhythmogenic right ventricular cardiomyopathy [KM Meurs et al], 1338

**Cardiovascular System**
Prospective screening for occult cardiomyopathy in dogs by measurement of plasma atrial natriuretic peptide, B-type natriuretic peptide, and cardiac troponin-I concentrations [MA Oyama et al], 42
Serial alterations in digital hemodynamics and endothelin-1 immunoreactivity, platelet-neutrophil aggregation, and concentrations of nitric oxide, insulin, and glucose in blood obtained from horses following carbohydrate overload [SC Eades et al], 87
Evaluation of cardiovascular effects of total intravenous anesthesia with propofol or a combination of ketamine-medetomidine-propofol in horses [MA Umar et al], 121
Comparison of noninvasive cardiac output measured by use of partial carbon dioxide rebreathing or the lithium dilution method in anesthetized foals [A Valverde et al], 141
Cardiac evaluation of anesthetized Grevy’s zebras (Eyuus grevyi) [DB Adin et al], 148
Comparison of cardiopulmonary responses during sedation with epidural and local anesthesia for laparoscopic-assisted jejunostomy feeding tube placement with cardiopulmonary responses during general anesthesia for laparoscopic-assisted or open surgical jejunostomy feeding tube placement in healthy dogs [SA Hewitt et al], 358
Changes in the myocardial performance index during dobutamine administration in anesthetized cats [Y Hori et al], 385
Response of hypotensive dogs to dopamine hydrochloride and dobutamine hydrochloride during deep isoflurane anesthesia [M Rosati et al], 483
Evaluation of serum cardiac troponin I concentration in Boxers with arrhythmogenic right ventricular cardiomyopathy [RD Baumwart et al], 524
Evaluation of activation of protein kinase C during agonist-induced constriction of veins isolated from the laminar dermis of horses [TP Robertson et al], 664
Effect of voltage-gated and capacitative calcium entry blockade on agonist-induced constriction of equine laminar blood vessels [JF Peroni et al], 722
Methods and reliability of echocardiographic assessment of left atrial size and mechanical function in horses [CC Schwarzwald et al], 735
Effects of Rho-kinase and Src protein tyrosine kinase inhibition on agonist-induced vasoconstriction of arteries and veins of the equine laminar dermis [TP Robertson et al], 868
Effects of remifentanil infusion regiments on cardiovascular function and responses to noxious stimulation in propofol-anesthetized cats [M doA Correa et al], 932
Time-frequency and complexity analyses for differentiation of physiologic murmurs from heart murmurs caused by aortic stenosis in Boxers [K Höglund et al], 962
Dynamic computed tomographic quantitation of hepatic perfusion in dogs with and without portal vascular anomalies [AL Zwingenberger et al], 970
Modulation of the tissue renin-angiotensin-aldosterone system in dogs with chronic mild regurgitation through the mitral valve [T Fujii et al], 1045
Assessment of longitudinal tissue Doppler imaging of the left ventricular septum and free wall as an indicator of left ventricular systolic function in dogs [Y Hori et al], 1051
Effect of transportation stress on heat shock protein 70 concentration and mRNA expression in heart and kidney tissues and serum enzyme activities and hormone concentrations of pigs [H Yu et al], 1146
Comparison of the myocardial performance index derived by
use of pulsed Doppler echocardiography and tissue Doppler imaging in dogs with volume overload [Y Horii et al], 1177
Effects of changes in loading conditions and heart rate on the myocardial performance index in cats [Y Horii et al], 1183
Early laminar effects involving endothelial activation in horses with black walnut-induced laminitis [JP Loftus et al], 1205
Effect of exercise on development of capillary supply and oxidative capacity in skeletal muscle of horses [NJ Rietbroek et al], 1226
Cardiopulmonary effects of administration of a combination solution of xylazine, guaifenesin, and ketamine or inhaled isoflurane in mechanically ventilated calves [CL Kerr et al], 1287
Densomosomal gene evaluation in Boxers with arrhythmogenic right ventricular cardiomyopathy [KM Meurs et al], 1338
Comparison of the effects of caffeine and doxapram on respiratory and cardiovascular function in foals with induced respiratory acidosis [S Giguère et al], 1407

Carpal Joint
Determination and use of mechanical nociceptive thresholds of the thoracic limb to assess pain associated with induced osteoarthritids of the middle carpal joint in horses [KK Haussler et al], 1167

Carprofen
Evaluation of adverse effects of long-term oral administration of carprofen, etodolac, flunixin meglumine, ketoprofen, and meloxicam in dogs [SPL Luna et al], 258
Effects of urine alkalization and activated charcoal on the pharmacokinetics of orally administered carprofen in dogs [MR Raekallio et al], 423

Cartilage
Effects of continuous oral administration of phenylbutazone on biomarkers of cartilage and bone metabolism in horses [MÉ Fradette et al], 128
Effect of exercise on serum concentration of cartilage oligomeric matrix protein in Thoroughbreds [IE Halal et al], 134
Clinical, biochemical, and histologic effects of intra-articular administration of autologous conditioned serum in horses with experimentally induced osteoarthritis [DD Frisbie et al], 290
Assessment of cartilage degradation effects of matrix metalloproteinase-13 in equine cartilage cocultured with synoviocytes [LA Fortier et al], 379
Effects of glucosamine and chondroitin sulfate on bovine cartilage explants under long-term culture conditions [P-S Chan et al], 709
Evaluation of increased subchondral bone density in areas of contact in the metacarpophalangeal joint during joint loading in horses [KL Easton et al], 816
Effects of treatment with polysulfated glycosaminoglycan on serum cartilage oligomeric matrix protein and C-reactive protein concentrations, serum matrix metalloproteinase-2 and -9 activities, and lameness in dogs with osteoarthritis [M Fujiki et al], 827
Subchondral bone density and cartilage degeneration patterns in osteoarthritic metacarpal condyles of horses [BD Young et al], 841
Effect of fibroblast growth factor-2 on equine mesenchymal stem cell monolayer expansion and chondrogenesis [SA Stewart et al], 941

Ceftiofur
Changes in antimicrobial susceptibility in a population of Escherichia coli isolated from feedlot cattle administered ceftiofur crystalline-free acid [TC Lawrence et al], 501

Cell Culture
Effect of fibroblast growth factor-2 on equine mesenchymal stem cell monolayer expansion and chondrogenesis [SA Stewart et al], 941
Isolation and characterization of bone marrow-derived equine mesenchymal stem cells [SA Arnhold et al], 1095

Cell Growth
Influence of extracellular matrix on bovine mammary gland progenitor cell growth and differentiation [MS Holland et al], 476

Cell Membrane
Cell membrane receptors on bovine mononuclear phagocytes involved in phagocytosis of Mycobacterium avium subsp paratuberculosis [CD Souza et al], 975

Cellular Immunity
Effect of maternal cells transferred with colostrum on cellular responses to pathogen antigens in neonatal calves [DC Donovan et al], 778
Cement
Effects of a magnesium adhesive cement on bone stability and healing following a metatarsal osteotomy in horses [M Waselau et al], 370

Centrodistal Tarsal Joint
Dorsolateral approach for the arthrocentesis of the centrodistal joint in horses [EM Just et al], 946

Cetirizine
Effects of cyproheptadine and cetirizine on eosinophilic airway inflammation in cats with experimentally induced asthma [EK Schooley et al], 1265

Charcoal
Effects of urine alkalization and activated charcoal on the pharmacokinetics of orally administered carprofen in dogs [MR Raekallio et al], 423

Chediak-Higashi Syndrome
Alteration of release and role of adenosine diphosphate and thromboxane A2 during collagen-induced aggregation of platelets from cattle with Chediak-Higashi syndrome [N Honda et al], 1399

Chemokine
Effects of in vitro exposure to hay dust on expression of interleukin-17,-23,-8, and -1β and chemokine (C-X-C motif) ligand 2 by pulmonary mononuclear cells isolated from horses chronically affected with recurrent airway disease [DM Ainsworth et al], 1361

Chemotherapy
Induction of chemoresistance in a cultured canine cell line by retroviral transduction of the canine multidrug resistance 1 gene [S Matsuura et al], 95

Chicken Anemia Virus
Effect of the VP3 gene of chicken anemia virus on canine mammary tumor cells [JJ Lee et al], 411

Chickens
Mutant-prevention concentrations of enrofloxacin for Escherichia coli isolates from chickens [Q Li et al], 812

Chlamydia felis
Prevalence of feline herpesvirus 1, Chlamydia felis, and Mycoplasma spp DNA in conjunctival cells collected from cats with and without conjunctivitis [HC Low et al], 643

Chondrogenesis
Effect of fibroblast growth factor-2 on equine mesenchymal stem cell monolayer expansion and chondrogenesis [AA Stewart et al], 941
Cornea
Immunohistochemical evaluation of cyclooxygenase expression in corneal squamous cell carcinoma in horses [CL McInnis et al], 165
In vitro fluoroquinolone susceptibility of Pseudomonas aeruginosa isolates from dogs with ulcerative keratitis [EC Ledbetter et al], 638

Corrections
Epidemiologic cutoff values for antimicrobial agents against Aeromonas salmonicida isolates determined by frequency distributions of minimal inhibitory concentration and diameter of zone of inhibition data [RA Miller et al], 2006;67:1837, 404
Effects of buprenorphine on nociception and locomotor activity in horses [AB Carmegaro et al], 2007;88:246, 523

Corticosteroids
Effects of dexamethasone on glucose dynamics and insulin sensitivity in healthy horses [HA Tiley et al], 753
Cortisol
Effect of strenuous exercise on urine concentrations of homovanillic acid, cortisol, and vanillylmandelic acid in sled dogs [LL Durocher et al], 107
Effects of intravenous infusion of lipopolysaccharide on plasma micromineral, magnesium, and cytokine concentrations and serum cortisol concentrations in lactating goats [J Wang et al], 529
Effect of low doses of cosyntrin on serum cortisol concentrations in clinically normal dogs [LG Martin et al], 555

Cosyntrin
Effect of low doses of cosyntrin on serum cortisol concentrations in clinically normal dogs [LG Martin et al], 555
Cranial Cruciate Ligament
Evaluation of antigen concentrations of Type I antibody titers in synovial fluid of both stifle joints and the left shoulder joint of dogs with unilateral cranial cruciate disease [T de Bruin et al], 283
Effect of conformation of the distal portion of the femur and proximal portion of the tibia on the pathogenesis of cranial cruciate ligament disease in dogs [TG Guerrero et al], 1332

C-reactive Protein
Serum concentrations of C-reactive protein, serum amyloid A, and haptoglobin in pigs inoculated with African swine fever or classical swine fever viruses [P-J Sánchez-Cordon et al], 772
Effects of treatment with polysulfated glycosaminoglycan on serum cartilage oligomeric matrix protein and C-reactive protein concentrations, serum matrix metalloproteinase-2 and -9 activities, and lameness in dogs with osteoarthritis [M Fuji et al], 827
Assessment of three automated assays for C-reactive protein determination in dogs [BA Fransson et al], 1281

Creep Feed
Addition of chromic oxide to creep feed as a fecal marker for selection of creep feed-eating suckling pigs [WI Kuller et al], 748

Culture
Evaluation of fecal samples from mares as a source of Rhodococcus equi for their foals by use of a quantitative bacteriologic culture and colony immunoblot analyses [MB Grimm et al], 63
Effects of glucosamine and chondroitin sulfate on bovine cartilage explants under long-term culture conditions [P-S Chan et al], 709

Cyclooxygenase
Expression of cyclooxygenase-1 and -2 in naturally occurring squamous cell carcinomas in horses [YA Elor et al], 76
Changes in platelet function, hemostasis, and prostaaglandin expression after treatment with nonsteroidal anti-inflammatory drugs with various cyclooxygenase selectivities in dogs [BM Brainard et al], 251
Effects of the cyclooxygenase inhibitor meloxicam on recovery of ischemia-injured equine jejunum [D Little et al], 614

Cypohptadine
Effects of cyproheptadine and cetirizine on eosinophilic airway inflammation in cats with experimentally induced asthma [EK Schooley et al], 1265

Cystitis
In vivo evaluation of α2-adrenerceptors in cats with idiopathic cystitis [JL Westropp et al], 203

Cytokines
Influx of neutrophils and persistence of cytokine expression in airways of horses after performing exercise while breathing cold air [MS Davis et al], 185
Effects of intravenous infusion of lipopolysaccharide on plasma micromineral, magnesium, and cytokine concentrations and serum cortisol concentrations in lactating goats [J Wang et al], 529
Role of the MAPK pathway in regulation of cytokine expression by Mycobacterium avium subsp paratuberculosis-exposed bovine monocytes [CD Souza et al], 626
Cytokine mRNA expression in synovial fluid of affected and contralateral stifle joints and the left shoulder joint in dogs with unilateral disease of the stifle joint [T deBruin et al], 953

Dairy Cows
In vitro effects of betanecol on specimens of intestinal smooth muscle obtained from the duodenum and jejunum of healthy dairy cows [JBR Pfeiffer et al], 313

Deer
Anesthesia induced by administration of xylazine hydrochloride alone or in combination with ketamine hydrochloride and reversal by administration of yohimbine hydrochloride in captive Axis deer (Axis axis) [SD Sontakke et al], 11

Dermatology
Neutrophil myeloperoxidase measurements in plasma, laminar tissue, and skin of horses given black walnut extract [LM Riggs et al], 81
Immunohistochemical evaluation of substance P and calcitonin gene-related peptide in skin and periosteum after extracorpooreal shock wave therapy and radial pressure wave therapy in sheep [JM Abed et al], 323
Pulsed-field gel electrophoresis patterns and antimicrobial susceptibility phenotypes for coagulase-positive staphylococcal isolates from pustules and carriage sites in dogs with superficial bacterial folliculitis [LR Pinchbeck et al], 535

Dermis
Evaluation of activation of protein kinase C during agonist-induced constriction of veins isolated from the ilamin dermis of horses [TP Robertson et al], 664
Effects of Rho-kinase and Src protein tyrosine kinase inhibition on agonist-induced vasoconstriction of arteries and veins of the equine laminar dermis [TP Robertson et al], 886

Desmosomes
Desmosomal gene evaluation in Boxers with arrhythmogenic right ventricular cardiomyopathy [KM Meurs et al], 1338

Dexamethasone
Effects of dexamethasone on glucose dynamics and insulin sensitivity in healthy horses [HA Tiley et al], 753

Dermatology
Neutrophil myeloperoxidase measurements in plasma, laminar tissue, and skin of horses given black walnut extract [LM Riggs et al], 81
Immunohistochemical evaluation of substance P and calcitonin gene-related peptide in skin and periosteum after extracorporeal shock wave therapy and radial pressure wave therapy in sheep [JM Abed et al], 323
Pulsed-field gel electrophoresis patterns and antimicrobial susceptibility phenotypes for coagulase-positive staphylococcal isolates from pustules and carriage sites in dogs with superficial bacterial folliculitis [LR Pinchbeck et al], 535
Dexmedetomidine
- Effects of epidural administration of dexmedetomidine on the minimum alveolar concentration of isoflurane in dogs [D Campagnol et al], 1308

Diet
- Addition of chromic oxide to creep feed as a fecal marker for selection of creep feed-eating suckling pigs [WI Kuller et al], 748

Digestibility
- Effects of foodborne Fusarium mycotoxins with and without a polymeric glucomannan mycotoxin adsorbent on food intake and nutrient digestibility, body weight, and physical and clinicalpathologic variables of mature dogs [MXK Leung et al], 1122

Digestive System
- Efficacy of maropitant for treatment and prevention of emesis caused by intravenous infusion of cisplatin in dogs [VA de la Puente-Redondo et al], 48

Transcutaneous ultrasonographic evaluation of gastric distension with fluid in horses [M Lores et al], 153

Field testing of an enhanced direct-fecal polymerase chain reaction procedure, bacterial culture of feces, and a serum enzyme-linked immunosorbent assay for detecting Mycobacterium avium subsp. paratuberculosis infection in adult dairy cattle [HM Scott et al], 236

In vitro effects of reactive oxygen metabolites, with and without fluoxetin meglumine, on equine colonic mucosa [OJ Inoue et al], 305

In vitro effects of bethanechol on specimens of intestinal smooth muscle obtained from the duodenum and jejunum of healthy dairy cows [JBR Pfeiffer et al], 313

Effects of the cyclooxygenase inhibitor meloxicam on recovery of ischemia-injured equine jejunum [D Little et al], 614

Optimization of a species-specific polymerase chain reaction assay for identification of Paratrichomonas hominis in canine fecal specimens [JL Gookin et al], 783

Retention of acetaminophen in an in vitro model of solid-phase gastric emptying of animals [CA Wyse et al], 895

Digestive enzyme concentrations and activities in healthy pancreatic tissue of horses [M Lorenzo-Figuereas et al], 1070

Efficacy of tinidazole for treatment and prevention of emesis caused by intravenous infusion of cisplatin in dogs [VA de la Puente-Redondo et al], 48

Doxapram
- Comparison of the effects of caffeine and doxapram on respiratory and cardiovascular function in foals with induced respiratory acidosis [S Giguère et al], 1407

Doxycycline
- Intra-articular administration of doxycycline in calves [MC Haerdi-Landerer et al], 1324

Duodenum
- In vitro effects of bethanechol on specimens of intestinal smooth muscle obtained from the duodenum and jejunum of healthy dairy cows [JBR Pfeiffer et al], 313

Dust
- Effects of in vitro exposure to hay dust on expression of interleukin-17, -23, -8, and -1β and chemokine (C-X-C motif) ligand 2 by pulmonary mononuclear cells isolated from horses chronically affected with recurrent airway disease [DM Ainsworth et al], 1361

Echocardiography
- Methods and reliability of echocardiographic assessment of left atrial size and mechanical function in horses [CC Schwarzwald et al], 735

Assessment of longitudinal tissue Doppler imaging of the left ventricular septum and free wall as an indicator of left ventricular systolic function in dogs [Y Hori et al], 1051

Comparison of the myocardial performance index derived by use of pulsed Doppler echocardiography and tissue Doppler imaging in dogs with volume overload [Y Hori et al], 1177

Eggs
- Evaluation of a combination of sodium hypochlorite and polyhexamethylene biguanide as an egg wash for red-eared slider turtles (Trachemys scripta elegans) to suppress or eliminate Salmonella organisms on egg surfaces and in hatchlings [MA Mitchell et al], 158

Elbow Joints
- Effect of computed tomography display window and image plane on diagnostic certainty for characteristics of dysplastic elbow joints in dogs [TC Tromblee et al], 858

Electrical Stimulations
- Noninvasive assessment of the facilitation of the nociceptive withdrawal reflex by repeated electrical stimulations in conscious dogs [A Bergadano et al], 899

Electrolytes
- Effects of hypercalcemia on serum concentrations of magnesium, potassium, and phosphate and urinary excretion of electrolytes in horses [RE Toribio et al], 543

Effects of hypertonic sodium bicarbonate solution on electrolyte concentrations and enzyme activities in newborn calves with respiratory and metabolic acidosis [UT Bleul et al], 850

Electrophoresis
- Pulsed-field gel electrophoresis patterns and antimicrobial susceptibility phenotypes for coagulase-positive staphylococcal isolates from pustules and carriage sites in dogs with superficial bacterial folliculitis [LR Pinchbeck et al], 535

ELISA
- Comparison of the complement fixation tests and competitive ELISA for serodiagnosis of Anaplasma marginale infection in experimentally infected steers [JF Coetzee et al], 872

Elution
- Effects of porcine small intestinal submucosa on elution characteristics of gentamicin-impregnated plaster of Paris [MR Seddighi et al], 171
Emesis
Efficacy of maropitant for treatment and prevention of emesis caused by intravenous infusion of cisplatin in dogs [VA de la Puente-Redondo et al], 48

Endocrinology
Serum concentrations of adiponectin and characterization of adiponectin protein complexes in dogs [BL Brunson et al], 57
Effects of hypercalcemia on serum concentrations of magnesium, potassium, and phosphate and urinary excretion of electrolytes in horses [RE Toribio et al], 543
Effect of low doses of cosypromin on serum cortisol concentrations in clinically normal dogs [LG Martin et al], 555
Effects of dexamethasone on glucose dynamics and insulin sensitivity in healthy horses [HA Tiley et al], 753
Modulation of the tissue renin-angiotensin-aldosterone system in dogs with chronic mild regurgitation through the mitral valve [T Fuji et al], 1045
Effect of transportation stress on heat shock protein 70 concentrations and mRNA expression in heart and kidney tissues and serum enzyme activities and hormone concentrations of pigs [H Yu et al], 1145

Endoscopy
Endoscopic evaluation of bronchial morphology in rabbits [LR Johnson et al], 1022

Endothelial Growth Factor
Expression of vascular endothelial growth factor in tumors and plasma from dogs with primary intracranial neoplasms [JH Rossmeisl et al], 1239

Endothelin-1
Serial alterations in digital hemodynamics and endothelin-1 immunoreactivity, platelet-neutrophil aggregation, and concentrations of nitric oxide, insulin, and glucose in blood obtained from horses following carbohydrate overload [SC Eades et al], 87

Endothelium
Early laminar events involving endothelial activation in horses with black walnut-induced laminitis [JP Loftus et al], 1205

Enrofloxacin
Ocular and systemic manifestations after oral administration of a high dose of enrofloxacin in cats [MM Ford et al], 190
Mutant-prevention concentrations of enrofloxacin for Escherichia coli isolates from chickens [Q Li et al], 812

Enzyme-linked Immunosorbent Assay
Field testing of an enhanced direct-fecal polymerase chain reaction procedure, bacterial culture of feces, and a serum enzyme-linked immunosorbent assay for detecting Mycobacterium avium subsp paratuberculosis infection in adult dairy cattle [HM Scott et al], 236

Enzymes
Effects of hypertonic sodium bicarbonate solution on electrolyte concentrations and enzyme activities in newborn calves with respiratory and metabolic acidosis [UT Bleul et al], 850
Digestive enzyme concentrations and activities in healthy pancreatic tissue of horses [M Lorenzo-Figuera et al], 1070
Effect of transportation stress on heat shock protein 70 concentration and mRNA expression in heart and kidney tissues and serum enzyme activities and hormone concentrations of pigs [H Yu et al], 1145

Eosinophils
Effects of cyproheptadine and cetirizine on eosinophilic airway inflammation in cats with experimentally induced asthma [EK Schooley et al], 1265

Epidemiology
Evaluation of fecal samples from mares as a source of Rhodococcus equi for their foals by use of a quantitative bacteriologic culture and colony immunoblot analyses [MB Grimm et al], 63
Prevalence of obese dogs in a population of dogs with cancer [LP Weeth et al], 389
Regional seroprevalence of bluetongue virus in cattle in Illinois and western Indiana [TC Boyer et al], 1212
Epidemiologic characteristics of catastrophic musculoskeletal injuries in Thoroughbred racehorses [AM Cruz et al], 1370

Epidermis
Density and morphologic features of primary epidermal laminae in the feet of three-year-old racing Quarter Horses [LS Lancaster et al], 11

Epidural Administration
Effects of epidural administration of dexmedetomidine on the minimum alveolar concentration of isoflurane in dogs [D Campagnol et al], 1308

Epilepsy
Assessment of antiepileptic drugs as substrates for canine P-glycoprotein [CL West et al], 1106

Epithelium
Quantification of mucin gene expression in tracheobronchial epithelium of healthy dogs and dogs with chronic bronchitis [EC Hawkins et al], 435

Equine Influenza Virus
Evaluation of the ability of canarypox-vectored equine influenza virus vaccines to induce humoral immune responses against canine influenza viruses in dogs [K Karaca et al], 208
Efficacy of a canarypox-vectored recombinant vaccine expressing the hemagglutinin gene of equine influenza H3N8 virus in the protection of ponies from viral challenge [JM Minke et al], 213

Erythromycin
Effect of parenteral administration of erythromycin, tilmicosin, and tylosin on abomasal emptying rate in suckling calves [M Nouri et al], 1392

Escherichia coli
Changes in antimicrobial susceptibility in a population of Escherichia coli isolated from feedlot cattle administered ceftifur crystalline-free acid [TC Lawrence et al], 501
Mutant-prevention concentrations of enrofloxacin for Escherichia coli isolates from chickens [Q Li et al], 812

Etodolac
Evaluation of adverse effects of long-term oral administration of carprofen, etodolac, flunixin meglumine, ketoprofen, and meloxicam in dogs [SPL Luna et al], 258

Exercise Physiology
Effect of strenuous exercise on urine concentrations of homovanillic acid, cortisol, and vanillylmandelic acid in sled dogs [LL Durocher et al], 107
Effect of exercise on serum concentration of cartilage oligomeric matrix protein in Thoroughbreds [IE Halal et al], 134
Influx of neutrophils and persistence of cytokine expression in airways of horses after performing exercise while breathing cold air [MS Davis et al], 185
Risk factors for proximal sesamoid bone fractures associated with exercise history and horseshow characteristics in Thoroughbred racehorses [LA Anthenill et al], 760
Assessment of exercise-induced alterations in neutrophil function in horses [DC Donovan et al], 1198
Effect of exercise on development of capillary supply and oxidative capacity in skeletal muscle of horses [NJ Rietbroek et al], 1226
Evaluation of the influences of exercise, birth date, and osteochondrosis on plasma bone marker concentrations in Hanoverian Warmblood foals [I Vervuert et al], 1319


Extracellular Matrix
Influence of extracellular matrix on bovine mammary gland progenitor cell growth and differentiation [MS Holland et al], 476

Extracorporeal Shock Wave Therapy
Immunohistochemical evaluation of substance P and calcitonin gene-related peptide in skin and periosteum after extracorporeal shock wave therapy and radial pressure wave therapy in sheep [JM Abed et al], 323

Eyes
Immunohistochemical evaluation of cyclooxygenase expression in corneal squamous cell carcinoma in horses [CL McInnis et al], 165

Ocular and systemic manifestations after oral administration of a high dose of enrofloxacin in cats [MM Ford et al], 190

In vitro fluoroquinolone susceptibility of Pseudomonas aeruginosa isolates from dogs with ulcerative keratitis [EC Ledbetter et al], 638

Prevalence of feline herpesvirus 1, Chlamydiophila felis, and Mycoplasma spp DNA in conjunctival cells collected from cats with and without conjunctivitis [HC Low et al], 643

Comparison of ophthalmic measurements obtained via high-frequency ultrasound imaging in four species of snakes [SR Hollingsworth et al], 1111


F
Famciclovir
Pharmacokinetics and safety of penciclovir following oral administration of famciclovir to cats [SM Thomasy et al], 1252

Feces
Evaluation of fecal samples from mares as a source of Rhodococcus equi for their foals by use of a quantitative bacteriologic culture and colony immunoblot analyses [MB Grimm et al], 63

Field testing of an enhanced direct-fecal polymerase chain reaction procedure, bacterial culture of feces, and a serum enzyme-linked immunosorbent assay for detecting Mycobacterium avium subsp paratuberculosis infection in adult dairy cattle [HM Scott et al], 236

Addition of chromic oxide to creep feed as a fecal marker for selection of creep feed-eating suckling pigs [WI Kuller et al], 748

Feeding Tubes
Comparison of cardiopulmonary responses during sedation with epidural and local anesthesia for laparoscopic-assisted jejunostomy feeding tube placement with cardiopulmonary responses during general anesthesia for laparoscopic-assisted or open surgical jejunostomy feeding tube placement in healthy dogs [SA Hewitt et al], 358

Feline Herpesvirus
Prevalence of feline herpesvirus 1, Chlamydiophila felis, and Mycoplasma spp DNA in conjunctival cells collected from cats with and without conjunctivitis [HC Low et al], 643

In vitro effects of the active metabolite of leflunomide, A77 1726, on feline herpesvirus-1 [CR Williams et al], 1010

Femur
Effect of conformation of the distal portion of the femur and proximal portion of the tibia on the pathogenesis of cranial cruciate ligament disease in dogs [TG Guerrero et al], 1332

Fetus
Fetal protection against continual exposure to bovine viral diarrhea virus following administration of a vaccine containing an inactivated bovine viral diarrhea virus fraction to cattle [DL Grooms et al], 1417

Fibrinogen
Prevalence of reduced fibrinogen binding to platelets in a population of Thoroughbreds [JW Norris et al], 716

Evaluation of a bench-top coagulation analyzer for measurement of prothrombin time, activated partial thromboplastin time, and fibrinogen concentrations in healthy dogs [HK Mineo et al], 1342

Fibroblast Growth Factor
Effect of fibroblast growth factor-2 on equine mesenchymal stem cell monolayer expansion and chondrogenesis [AA Stewart et al], 941

Fish
Cardiorespiratory effects and efficacy of morphine sulfate in winter flounder (Pseudopleuronectes americanus) [NC Newby et al], 592

Flounder
Cardiorespiratory effects and efficacy of morphine sulfate in winter flounder (Pseudopleuronectes americanus) [NC Newby et al], 592

Flow Cytometry
An indirect flow cytometric test for detection of anti-neutrophil antibodies in dogs [DJ Weiss et al], 464

Flunixin Meglumine
Evaluation of adverse effects of long-term oral administration of carprofen, etodolac, flunixin meglumine, ketoprofen, and meloxicam in dogs [SPL Luna et al], 258

In vitro effects of reactive oxygen metabolites, with and without flunixin meglumine, on equine colonic mucosa [OJ Inoue et al], 305

Fluoroquinolone
In vitro fluoroquinolone susceptibility of Pseudomonas aeruginosa isolates from dogs with ulcerative keratitis [EC Ledbetter et al], 638

Folliculitis
Pulsed-field gel electrophoresis patterns and antimicrobial susceptibility phenotypes for coagulase-positive staphylococcal isolates from pustules and carriage sites in dogs with superficial bacterial folliculitis [LR Pinchbeck et al], 535

Follow-Up
Sources and handling of losses to follow-up in parallel-group randomized clinical trials in dogs and cats: 63 trials (2000–2005) [DC Brown], 694

Fractures
Risk factors for proximal sesamoid bone fractures associated with exercise history and horseshow characteristics in Thoroughbred racehorses [LA Anthenill et al], 760

Comparison of insertion characteristics of two types of hydroxyapatite-coated and uncoated positive profile transfixation pins in the third metacarpal bone if horses [JR Zacharias et al], 1160

Epidemiologic characteristics of catastrophic musculoskeletal injuries in Thoroughbred racehorses [AM Cruz et al], 1370

Furosemide
Effects of oral administration of furosemide and torsemide in healthy dogs [Y Hori et al], 1058

Fusarium spp
Effects of foodborne Fusarium mycotoxins with and without a polymeric glucosomannan mycotoxin adsorbent on food intake
Effects of foodborne Glucomannan

Influence of three anesthetic protocols on glomerular filtration rate by use of Patlak plot analysis in anesthetized pigs [K Alexander et al], 297

Glycosaminoglycan

Effects of treatment with polysulfated glycosaminoglycan on serum cartilage oligomeric matrix protein and C-reactive protein concentrations, serum matrix metalloproteinase-2 and -9 activities, and lameness in dogs with osteoarthritis [M Fujiki et al], 827

Gait Analysis

Kinetic gait and subjective analysis of the effects of a tachykinin receptor antagonist in dogs with sodium urate-induced synovitis [JP Punke et al], 704

Accuracy of asymmetry indices of ground reaction forces for diagnosis of hind limb lameness in dogs [L Fanchon et al], 1089

Gallium Maltolate

Pharmacokinetics of gallium maltolate after intragastric administration in neonatal foals [RJ Martens et al], 1041

Gangliosidoses

Development of quantitative polymerase chain reaction assays for allelic discrimination of gangliosidoses in cats [C-YJ Wang et al], 231

Gastric Distension

Transcutaneous ultrasonographic evaluation of gastric distension with fluid in horses [M Lores et al], 153

Gastric Emptying

Retention of acetaminophen in an in vitro model of solid-phase gastric emptying of animals [CA Wyse et al], 895

Genetics

Quantitative genetics of secondary hip joint osteoarthritis in a Labrador Retriever-Greyhound pedigree [L Hays et al], 35

Induction of chemoresistance in a cultured canine cell line by retroviral transduction of the canine multidrug resistance 1 gene [S Matsuura et al], 95

Quantification of mucin gene expression in tracheobronchial epithelium of healthy dogs and dogs with chronic bronchitis [EC Hawkins et al], 435

Associations between genotypes at codon 171 and 136 of the prion protein gene and production traits in market lambs [JM Evoniuk et al], 1073

Biochemical and genetic evaluation of the role of AMP-activated protein kinase in polysaccharide storage myopathy in Quarter Horses [PK Dranchak et al], 1079

Desmosomal gene evaluation in Boxers with arrhythmogenic right ventricular cardiomyopathy [KM Meurs et al], 1338

Telomere length in normal and neoplastic canine tissues [CD Cadile et al], 1386

Genotypes

Associations between genotypes at codon 171 and 136 of the prion protein gene and production traits in market lambs [JM Evoniuk et al], 1073

Gentimicin

Effects of porcine small intestinal submucosa on elution characteristics of gentamicin-impregnated plaster of Paris [MR Seddighi et al], 171

Glomerular Filtration Rate

Single-slice dynamic computed tomographic determination of glomerular filtration rate by use of Patlak plot analysis in anesthetized pigs [K Alexander et al], 297

Influence of three anesthetic protocols on glomerular filtration rate in dogs [M fusellier et al], 607

Glucomannan

Effects of foodborne Fusarium mycotoxins with and without a polymeric glucomannan mycotoxin adsorbent on food intake and nutrient digestibility, body weight, and physical and clinico-pathologic variables of mature dogs [MXK Leung et al], 1122

Glucosamine

Effects of glucosamine and chondroitin sulfate on bovine cartilage explants under long-term culture conditions [P-S Chan et al], 709

Glucose

Serial alterations in digital hemodynamics and endothelin-1 immunoreactivity, platelet-neutrophil aggregation, and concentrations of nitric oxide, insulin, and glucose in blood obtained from horses following carbohydrate overload [SC Eades et al], 87

Effects of dexamethasone on glucose dynamics and insulin sensitivity in healthy horses [HA Tiley et al], 753

Glycosaminoglycan

Effects of treatment with polysulfated glycosaminoglycan on serum cartilage oligomeric matrix protein and C-reactive protein concentrations, serum matrix metalloproteinase-2 and -9 activities, and lameness in dogs with osteoarthritis [M Fujiki et al], 827

Goats

Effects of intravenous infusion of lipopolysaccharide on plasma micronineral, magnesium, and cytokine concentrations and serum cortisol concentrations in lactating goats [J Wang et al], 529

Early fetal sexing of Saanen goats by use of transrectal ultrasonography to identify the genital tubercle and external genitalia [MHB Santos et al], 561

Goniometry

Validity of goniometric joint measurements in cats [GH Jaeger et al], 822

Granulocytes

Biochemical and enzymatic characterization of purified covalent complexes of matrix metalloproteinase-9 and haptoglobin released by bovine granulocytes in vitro [GA Bannikov et al], 995

Greyhounds

Quantitative genetics of secondary hip joint osteoarthritis in a Labrador Retriever-Greyhound pedigree [L Hays et al], 35

Ground Reaction Forces

Accuracy of asymmetry indices of ground reaction forces for diagnosis of hind limb lameness in dogs [L Fanchon et al], 1089

Growth

Computed tomographic evaluation of growth-related changes in the hip joints of young dogs [M Fujiki et al], 730

Guaifenesin

Cardiopulmonary effects of administration of a combination solution of xylazine, guaifenesin, and ketamine or inhaled isoflurane in mechanically ventilated calves [CL Kerr et al], 1287

Gunshot

Evaluation of local and systemic effects after intramuscular implantation of lead shot alternatives in rats [EA Hoots et al], 446

Hanoverian Warmbloods

Evaluation of the influences of exercise, birth date, and osteochondrosis on plasma bone marker concentrations in Hanoverian Warmblood foals [I Vervuert et al], 1319

Haptoglobin

Serum concentrations of C-reactive protein, serum amyloid A, and haptoglobin in pigs inoculated with African swine fever
or classical swine fever viruses [PJ Sánchez-Cordón et al], 772
Biochemical and enzymatic characterization of purified covalent complexes of matrix metalloproteinase-9 and haptoglobin released by bovine granulocytes in vitro [GA Bannikov et al], 995

Hay
Effects of in vitro exposure to hay dust on expression of interleukin-17, -23, -8, and -1α and chemokine (C-X-C motif) ligand 2 by pulmonary mononuclear cells isolated from horses chronically affected with recurrent airway disease [DM Ainsworth et al], 1361

Heart
Prospective screening for occult cardiomyopathy in dogs by measurement of plasma atrial natriuretic peptide, B-type natriuretic peptide, and cardiac troponin-I concentrations [MA Oyama et al], 42
Methods and reliability of echocardiographic assessment of left atrial size and mechanical function in horses [CC Schwarzwald et al], 735
Time-frequency and complexity analyses for differentiation of physiologic murmurs from heart murmurs caused by aortic stenosis in Boxers [K Höglund et al], 962
Modulation of the tissue renin-angiotensin-aldosterone system in dogs with chronic mild regurgitation through the mitral valve [T Fuji et al], 1045
Effect of transportation stress on heat shock protein 70 concentration and mRNA expression in heart and kidney tissues and serum enzyme activities and hormone concentrations of pigs [H Yu et al], 1145
Comparison of the myocardial performance index derived by use of pulsed Doppler echocardiography and tissue Doppler imaging in dogs with volume overload [Y Hori et al], 1177
Effects of changes in loading conditions and heart rate on the myocardial performance index in cats [Y Hori et al], 1183

Heart Rate
Effects of changes in loading conditions and heart rate on the myocardial performance index in cats [Y Hori et al], 1183

Heat Shock Protein 70
Effect of transportation stress on heat shock protein 70 concentration and mRNA expression in heart and kidney tissues and serum enzyme activities and hormone concentrations of pigs [H Yu et al], 1145

Hemaggulitin
Efficacy of a canarypox-vectored recombinant vaccine expressing the hemaggulitin gene of equine influenza H3N8 virus in the protection of ponies from viral challenge [JM Minke et al], 213

Hematopoietic System
Changes in platelet function, hemostasis, and prostaglandin expression after treatment with nonsteroidal anti-inflammatoty drugs with various cyclooxygenase selectivities in dogs [BM Brainard et al], 251
Effects of hypercalcaemia on serum concentrations of magnesium, potassium, and phosphate and urinary excretion of electrolytes in horses [RE Toribio et al], 543
Purification and partial characterization of canine neutrophil elastase and the development of an immunoassay for the measurement of canine neutrophil elastase in serum obtained from dogs [A Stoll et al], 584
In vitro comparison of the effects of two forms of hydroxyethyl starch solutions on platelet function in dogs [JR Wierenga et al], 605
Effects of stimulation of adenosine A2A receptors on lipopolysaccharide-induced production of reactive oxygen species by equine neutrophils [W-C Sun et al], 649
Prevalence of reduced fibrinogen binding to platelets in a population of Thoroughbreds [JW Norris et al], 716
Assessment of exercise-induced alterations in neutrophil function in horses [DC Donovan et al], 1198
Determination of proviral load in bovine leukemia virus-infected cattle with and without lymphocytosis [MA Juliarena et al], 1220
Evaluation of a bench-top coagulometer analyzer for measurement of prothrombin time, activated partial thromboplastin time, and fibrinogen concentrations in healthy dogs [HK Mineo et al], 1342
Phosphodiesterase isoenzymes in equine platelets and their influence on platelet adhesion [B Dunkel et al], 1354
Alteration of release and role of adenosine diphosphate and thromboxane A2 during collagen-induced aggregation of platelets from cattle with Chediak-Higashi syndrome [N Honda et al], 1399
Comparison of the effects of caffeine and doxapram on respiratory and cardiovascular function in foals with induced respiratory acidosis [S Giguère et al], 1407

Hemodynamics
Serial alterations in digital hemodynamics and endothelin-1 immunoreactivity, platelet-neutrophil aggregation, and concentrations of nitric oxide, insulin, and glucose in blood obtained from horses following carbohydrate overload [SC Eades et al], 87

Hemostasis
Changes in platelet function, hemostasis, and prostaglandin expression after treatment with nonsteroidal anti-inflammatory drugs with various cyclooxygenase selectivities in dogs [BM Brainard et al], 251

Herpesvirus
Prevalence of feline herpesvirus 1, Chlamydia phila felis, and Mycoplasma spp DNA in conjunctival cells collected from cats with and without conjunctivitis [HC Low et al], 643
In vitro effects of the active metabolite of leflunomide, A77 1726, on feline herpesvirus-1 [CR Williams et al], 1010

Hip Dysplasia
Influence of borderline hip dysplasia on joint kinematics of clinically sound Belgian Shepherd dogs [BA Bockstahler et al], 271

Hip Joint
Quantitative genetics of secondary hip joint osteoarthritis in a Labrador Retriever-Greyhound pedigree [L Hays et al], 35
Computed tomographic evaluation of growth-related changes in the hip joints of young dogs [M Fujiki et al], 730

Homovanillic Acid
Effect of strenuous exercise on urine concentrations of homovanillic acid, cortisol, and vanillylmandelic acid in sled dogs [LL Durocher et al], 107

Hooves
Density and morphologic features of primary epidermal laminae in the feet of three-year-old racing Quarter Horses [LS Lancaster et al], 11
Serial alterations in digital hemodynamics and endothelin-1 immunoreactivity, platelet-neutrophil aggregation, and concentrations of nitric oxide, insulin, and glucose in blood obtained from horses following carbohydrate overload [SC Eades et al], 87
Effect of voltage-gated and capacitative calcium entry blockade on agonist-induced constriction of equine laminar blood vessels [JF Peroni et al], 722
Early laminar events involving endothelial activation in horses with black walnut-induced laminitis [JP Loftus et al], 1205

Hormones
Effect of transportation stress on heat shock protein 70 concentration and mRNA expression in heart and kidney tissues
and serum enzyme activities and hormone concentrations of pigs [H Yu et al], 1145

**Horses**
Risk factors for proximal sesamoid bone fractures associated with exercise history and horseshoe characteristics in Thoroughbred racehorses [LA Anthenill et al], 760

**Human Chorionic Gonadotropin**
Evaluation of a novel immunomodulator composed of human chorionic gonadotropin and bacillus Calmette-Guerin for treatment of canine mast cell tumors in clinically affected dogs [CJ Henry et al], 1246

**Hyaluronan**
Altered expression of versican and hyaluronan in melanocytic tumors of dogs [M-J Docampo et al], 1376

**Hydroxyapatite**
Comparison of insertion characteristics of two types of hydroxyapatite-coated and uncoated positive profile transfixation pins in the third metacarpal bone if horses [JR Zacharias et al], 1160

**Hydroxyethyl Starch**
In vitro comparison of the effects of two forms of hydroxyethyl starch solutions on platelet function in dogs [JR Wierenga et al], 605

**Hypercalcemia**
Effects of hypercalcemia on serum concentrations of magnesium, potassium, and phosphate and urinary excretion of electrolytes in horses [RE Toribio et al], 543

**Hypotension**
Response of hypotensive dogs to dopamine hydrochloride and dobutamine hydrochloride during deep isoflurane anesthesia [M Rosati et al], 483

**IgG**
Evaluation of a turbidimetric immunoassay for measurement of plasma IgG concentration in foals [PM McCue et al], 1005

**Illinois**
Regional seroprevalence of bluetongue virus in cattle in Illinois and western Indiana [TC Boyer et al], 1212

**Immunoadsorption**
Purification and partial characterization of canine neutrophil elastase and the development of an immunoadsorbent for the measurement of canine neutrophil elastase in serum obtained from dogs [A Stoll et al], 584

**Immunoblot**
Evaluation of fecal samples from mares as a source of *Rhodococcus equi* for their foals by use of a quantitative bacteriologic culture and colony immunoblot analyses [MB Grimm et al], 63

**Immunohistochemistry**
Immunohistochemical evaluation of cyclooxygenase expression in corneal squamous cell carcinoma in horses [CL McNinns et al], 165

**Immunohistochemical evaluation of substance P and calcitonin**
Gene-related peptide in skin and periosteum after extracorporeal shock wave therapy and radial pressure wave therapy in sheep [JM Abed et al], 323

**Immunology**
Timing of seroconversion and acquisition of positive polymerase chain reaction assay results in calves experimentally infected with bovine leukemia virus [DW Nagy et al], 72

Evaluation of the ability of canarypox-vectored equine influenza virus vaccines to induce humoral immune responses against canine influenza viruses in dogs [K Karaca et al], 208

An indirect flow cytometric test for detection of anti-neutrophil antibodies in dogs [DJ Weiss et al], 464

Role of the MAPK signaling pathway in regulation of cytokine expression by *Mycobacterium avium* subsp *paratuberculosis*-exposed bovine monocytes [CD Souza et al], 625

Effects of stimulation of adenosine A<sub>3</sub> receptors on lipopolysaccharide-induced production of reactive oxygen species by equine neutrophils [W-C Sun et al], 649

Response of healthy dogs to infusions of human serum albumin [LA Cohn et al], 657

Effect of maternal cells transferred with colostrum on cellular responses to pathogen antigens in neonatal calves [DC Donovan et al], 778

Characterization of protection against systemic infection and disease from experimental bovine viral diarrhea virus type 2 infection by use of a modified-live noncytopathic type 1 vaccine in calves [CL Kelling et al], 788

Cell membrane receptors on bovine mononuclear phagocytes involved in phagocytosis of *Mycobacterium avium* subsp *paratuberculosis* [CD Souza et al], 975

Pharmacologic characterization of novel adenosine A<sub>3</sub> receptor agonists in equine neutrophils [W Sun et al], 981

Contribution of MX dynamin, oligoadenylate synthetase, and protein kinase R to anti-paromyxovirus activity of type 1 interferons in vitro [MP-P Leroy et al], 988

Biochemical and enzymatic characterization of purified covalent complexes of matrix metalloproteinase-9 and haptoglobin released by bovine granulocytes in vitro [GA Bannikov et al], 995

Evaluation of a turbidimetric immunoassay for measurement of plasma IgG concentration in foals [PM McCue et al], 1005

Assessment of exercise-induced alterations in neutrophil function in horses [DC Donovan et al], 1198

Fetal protection against continual exposure to bovine viral diarrheal virus following administration of a vaccine containing an inactivated bovine viral diarrheal virus fraction to cattle [DL Grooms et al], 1417

**Immunomodulator**
Evaluation of a novel immunomodulator composed of human chorionic gonadotropin and bacillus Calmette-Guerin for treatment of canine mast cell tumors in clinically affected dogs [CJ Henry et al], 1246

**Indiana**
Regional seroprevalence of bluetongue virus in cattle in Illinois and western Indiana [TC Boyer et al], 1212

**Inflammation**
Influx of neutrophils and persistence of cytokine expression in airways of horses after performing exercise while breathing cold air [MS Davis et al], 185

Effects of cyproheptadine and cetirizine on eosinophilic airway inflammation in cats with experimentally induced asthma [EK Schooley et al], 1265

Assessment of three automated assays for C-reactive protein determination in dogs [BA Fransson et al], 1281

**Influenza**
Evaluation of the ability of canarypox-vectored equine influenza virus vaccines to induce humoral immune responses against canine influenza viruses in dogs [K Karaca et al], 208

Efficacy of a canarypox-vectored recombinant vaccine expressing the hemagglutinin gene of equine influenza H3N8 virus in the protection of ponies from viral challenge [JM Minke et al], 213

**Insulin**
Serial alterations in digital hemodynamics and endothelin-1 immunoreactivity, platelet-neutrophil aggregation, and con-
Effects of epidural administration of dexmedetomidine on the Use of bispectral index to monitor depth of anesthesia in isoflurane

Integumentary System
Density and morphologic features of primary epidermal laminae in the feet of three-year-old racing Quarter Horses [LS Lancaster et al], 11
Expression of cyclooxygenase-1 and -2 in naturally occurring squamous cell carcinomas in horses [YA Elce et al], 76
Neutrophil myeloperoxidase measurements in plasma, laminar tissue, and skin of horses given black walnut extract [LM Riggs et al], 81
Immunohistochemical evaluation of substance P and calcitonin gene-related peptide in skin and periosteum after extracorporeal shock wave therapy and radial pressure wave therapy in sheep [JM Abed et al], 323
Interferons
 Contribution of MX dynamin, oligoadenylate synthetase, and protein kinase R to anti-paramyxovirus activity of type 1 interferons in vitro [MP-P Leroy et al], 988
Interleukins
Effects of in vitro exposure to hay dust on expression of interleukin-17, -23, -8, and -1β and chemokine (C-X-C motif) ligand 2 by pulmonary mononuclear cells isolated from horses chronically affected with recurrent airway disease [DM Ainsworth et al], 1361
Intestine
Effects of porcine small intestinal submucosa on elution characteristics of gentamicin-impregnated plaster of Paris [MR Seddighi et al], 171
Intracranial Neoplasms
Expression of vascular endothelial growth factor in tumors and plasma from dogs with primary intracranial neoplasms [JH Rossmeisl et al], 1239
Iodine
Evaluation of agreement between two instruments in measurements of radiation dose rates in cats that underwent iodine I 131 treatment [HJ Chalmers et al], 354
Ischemia
Effects of the cyclooxygenase inhibitor meloxicam on recovery of ischemia-injured equine jejunum [D Little et al], 614
Isoenzymes
Phosphodiesterase isoenzymes in equine platelets and their influence on platelet adhesion [B Dunkel et al], 1354
Isoflurane
Response of hypotensive dogs to dopamine hydrochloride and dobutamine hydrochloride during deep isoflurane anesthesia [M Rosati et al], 483
Cardiopulmonary effects of administration of a combination solution of xylazine, quafenesin, and ketamine or inhaled isoflurane in mechanically ventilated calves [CL Kerr et al], 1287
Effects of perzinfotel on the minimum alveolar concentration of isoflurane in dogs [T Kushiro et al], 1294
Use of bispectral index to monitor depth of anesthesia in isoflurane-anesthetized dogs [D Campagnol et al], 1300
Effects of epidural administration of dexmedetomidine on the minimum alveolar concentration of isoflurane in dogs [D Campagnol et al], 1308

Jejunum
In vitro effects of bethanechol on specimens of intestinal smooth muscle obtained from the duodenum and jejunum of healthy dairy cows [JFR Pfeiffer et al], 313
Effects of the cyclooxygenase inhibitor meloxicam on recovery of ischemia-injured equine jejunum [D Little et al], 614
Joints
Quantitative genetics of secondary hip joint osteoarthritis in a Labrador Retriever-Greyhound pedigree [L Hays et al], 35
Effects of continuous oral administration of phenylbutazone on biomarkers of cartilage and bone metabolism in horses [M Fradette et al], 128
Effect of exercise on serum concentration of cartilage oligomeric matrix protein in Thoroughbreds [IE Halal et al], 134
Influence of borderline hip dysplasia on joint kinematics of clinically sound Belgian Shepherd dogs [BA Bockstahler et al], 271
Evaluation of anticollagen type I antibody titers in synovial fluid of both stifle joints and the left shoulder joint of dogs with unilateral cranial cruciate disease [W de Bruin et al], 283
Clinical, biochemical, and histologic effects of intra-articular administration of autologous conditioned serum in horses with experimentally induced osteoarthritis [DD Frisbie et al], 290
Efficacy of tiludronate in the treatment of horses with signs of pain associated with osteoarthritic lesions of the thoracolumbar vertebral column [V Coudry], 329
Assessment of cartilage degradation effects of matrix metalloproteinase-13 in equine cartilage cocultured with synoviocytes [LA Fortier et al], 379
Identification of infrared absorption spectral characteristics of synovial fluid of horses with osteochondrosis of the tarso-cocuneal joint, 517
Identification of infrared absorption spectral characteristics of synovial fluid of horses with osteochondrosis of the tarso-cocuneal joint [M Vijarnsorn et al], 517
Evaluation of avocado and soybean unsaponifiable extracts for treatment of horses with experimentally induced osteoarthritis [CE Kawcak et al], 598
Development and psychometric testing of an instrument designed to measure chronic pain in dogs with osteoarthritis [DC Brown et al], 631
Kinetic gait and subjective analysis of the effects of a tachykinin receptor antagonist in dogs with sodium urate-induced synovitis [JP Punke et al], 704
Effects of glucosamine and chondroitin sulfate on bovine cartilage explants under long-term culture conditions [P-S Chan et al], 709
Computed tomographic evaluation of growth-related changes in the hip joints of young dogs [M Fujiki et al], 730
Evaluation of increased subchondral bone density in areas of contact in the metacarpophalangeal joint during joint loading in horses [KL Easton et al], 816
Validity of goniometric joint measurements in cats [GH Jaeger et al], 822
Effects of treatment with polysulfated glycosaminoglycan on serum cartilage oligomeric matrix protein and C-reactive protein concentrations, serum matrix metalloproteinase-2 and -9 activities, and lameness in dogs with osteoarthritis [M Fujiki et al], 827
Subchondral bone density and cartilage degeneration patterns in osteoarthritic metacarpal condyles of horses [BD Young et al], 841

K

Keratitis
In vitro fluoroquinolone susceptibility of *Pseudomonas aeruginosa* isolates from dogs with ulcerative keratitis [EC Ledbetter et al], 638

Ketamine
Anesthesia induced by administration of xylazine hydrochloride alone or in combination with ketamine hydrochloride and reversal by administration of yohimbine hydrochloride in captive Axis deer (*Axis axis*) [SD Sontakke et al], 11
Evaluation of cardiovascular effects of total intravenous anesthesia with propofol or a combination of ketamine-medetomidine-propofol in horses [MA Umar et al], 121
Cardiopulmonary effects of administration of a combination solution of xylazine, guaifenesin, and ketamine or inhaled isoflurane in mechanically ventilated calves [CL Kerr et al], 1287

Ketoprofen
Evaluation of adverse effects of long-term oral administration of carprofen, etodolac, flunixin meglumine, ketoprofen, and meloxicam in dogs [SPL Luna et al], 258

Kidney
Effect of transportation stress on heat shock protein 70 concentration and mRNA expression in heart and kidney tissues and serum enzyme activities and hormone concentrations of pigs [HY Yu et al], 1145

Kinase
Biochemical and genetic evaluation of the role of AMP-activated protein kinase in polysaccharide storage myopathy in Quarter Horses [PK Dranchak et al], 1079

Kinematics
Influence of borderline hip dysplasia on joint kinematics of clinically sound Belgian Shepherd dogs [BA Bockstahler et al], 271
Validation of two-dimensional kinematic analysis of walk and sit-to-stand motions in dogs [LC Feeney et al], 277
Effects of vertebral mobilization and manipulation on kinematics of the thoracolumbar region [KK Haussler et al], 508

L

Labrador-Retriever
Quantitative genetics of secondary hip joint osteoarthritis in a Labrador Retriever-Greyhound pedigree [L Hays et al], 35

Lambs
Associations between genotypes at codon 171 and 136 of the prion protein gene and production traits in market lambs [JM Evoniuk et al], 1073

Lameness
Effects of treatment with polysulfated glycosaminoglycan on serum cartilage oligomeric matrix protein and C-reactive protein concentrations, serum matrix metalloproteinase-2 and -9 activities, and lameness in dogs with osteoarthritis [M Fujiki et al], 827
Accuracy of asymmetry indices of ground reaction forces for diagnosis of hind limb lameness in dogs [L Fanchon et al], 1089
Epidemiologic characteristics of catastrophic musculoskeletal injuries in Thoroughbred racehorses [AM Cruz et al], 1370

Laminitis
Neutrophil myeloperoxidase measurements in plasma, laminar tissue, and skin of horses given black walnut extract [LM Riggs et al], 81
Evaluation of activation of protein kinase C during agonist-induced constriction of veins isolated from the laminar dermis of horses [TP Robertson et al], 664
Effects of Rho-kinase and Src protein tyrosine kinase inhibition on agonist-induced vasoconstriction of arteries and veins of the equine laminar dermis [TP Robertson et al], 886

Lasers
Identification of serum biomarkers for canine B-cell lymphoma by use of surface-enhanced laser desorption-ionization time-of-flight mass spectrometry [PJ Gaines et al], 405

Lead
Evaluation of local and systemic effects after intramuscular implantation of lead shot alternatives in rats [EA Hoots et al], 446

Leflunomide
In vitro effects of the active metabolite of leflunomide, A77 1726, on feline herpesvirus-1 [CR Williams et al], 1010

Letters to the Editor
Microchemical and surface evaluation of canine tibial plateau leveling osteotomy plates [WM Lackowski et al], 2007;68:908
Letter: Finds discrepancy between studies on canine tibial plateau leveling osteotomy plates [RJ Boudreau et al], 2007;68:1139
Response: [WM Lackowski et al], 2007;68:1140
Ligaments
Evaluation of anticollegen type I antibody titers in synovial fluid of both stifle joints and the left shoulder joint of dogs with unilateral cranial cruciate disease [T de Bruin et al], 283
Effect of conformation of the distal portion of the femur and proximal portion of theibia on the pathogenesis of cranial cruciate ligament disease in dogs [TG Guerrero et al], 1332

Lips
Evaluation of thermographic imaging of the limbs of healthy dogs [CA Loughlin et al], 1064

Lipopolysaccharide
Effects of intravenous infusion of lipopolysaccharide on plasma microminerals, magnesium, and cytokine concentrations and serum cortisol concentrations in lactating goats [J Wang et al], 529
Effects of stimulation of adenosine A2A receptors on lipopolysaccharide-induced production of reactive oxygen species by equine neutrophils [W-C Sun et al], 649

Lithium
Comparison of noninvasive cardiac output measured by use of partial carbon dioxide rebreathing or the lithium dilution method in anesthetized foals [A Valverde et al], 141

Llamas
Pharmacokinetics and pharmacodynamics of morphine in llamas [SR Uhrig et al], 25
Respiratory, mechanical in sedated and nonsedated adult llamas [KM Lascola et al], 676
Morphologic and biochemical characterization of hyperextension of the metacarpophalangeal and metatarsophalangeal joints in llamas [SK Reed et al], 879

Loading
Effects of changes in loading conditions and heart rate on the myocardial performance index in cats [Y Hori et al], 1183

Locomotion
Effects of buprenorphine on nociception and spontaneous locomotor activity in horses [AB Carregaro et al], 246
Effect of show jumping training on the development of locomotory muscle in young horses [NJ Rietbroek et al], 1232

Lungs
Computed tomography of the lungs of Indian pythons (Python molurus) [MC Pees et al], 428
Use of computed tomography to evaluate pathologic changes in the lungs of calves with experimentally induced respiratory tract disease [BV Lubbers et al], 1259

Lymphocytosis
Determination of proviral load in bovine leukemia virus-infected cattle with and without lymphocytosis [MA Juliarena et al], 1220

Magnesium
Effects of a magnesium adhesive cement on bone stability and healing following a metatarsal osteotomy in horses [M Waselau et al], 370
Effects of intravenous infusion of lipopolysaccharide on plasma microminerals, magnesium, and cytokine concentrations and serum cortisol concentrations in lactating goats [J Wang et al], 529
Effects of hypercalcemia on serum concentrations of magnesium, potassium, and phosphate and urinary excretion of electrolytes in horses [RE Torbioso et al], 543

Mammary Gland
Influence of extracellular matrix on bovine mammary gland progenitor cell growth and differentiation [MS Holland et al], 476

Mammary Tumor
Effect of the VP3 gene of chicken anemia virus on canine mammary tumor cells [J-J Lee et al], 411

MAPK
Role of the MAPK pathway in regulation of cytokine expression by Mycobacterium avium subsp paratuberculosis-exposed bovine monocytes [CD Souza et al], 625

Maropitant
Efficacy of maropitant for treatment and prevention of emesis caused by intravenous infusion of cisplatin in dogs [VA de la Puente-Redondo et al], 48

Mass Spectrometry
Identification of serum biomarkers for canine B-cell lymphoma by use of surface-enhanced laser desorption-ionization time-of-flight mass spectrometry [PJ Gaines et al], 405

Mast Cell Tumors
Evaluation of a novel immunomodulator composed of human chorionic gonadotropin and bacillus Calmette-Guerin for treatment of canine mast cell tumors in clinically affected dogs [CJ Henry et al], 1246

Mastitis
Antimicrobial activity of bovine bactericidal permeability-increasing protein-derived peptides against gram-negative bacteria isolated from the milk of cows with clinical mastitis [A Chockalingma et al], 1151

Maternal Cells
Effect of maternal cells transferred with Colostrum on cellular responses to pathogen antigens in neonatal calves [DC Donovan et al], 778

Matrix Metalloproteinase
Assessment of cartilage degradation effects of matrix metalloproteinase-13 in equine cartilage cocultured with synoviocytes [LA Fortier et al], 379
Effects of treatment with polysulfated glycosaminoglycan on serum cartilage oligomeric matrix protein and C-reactive protein concentrations, serum matrix metalloproteinase-2 and -9 activities, and lameness in dogs with osteoarthritis [M Fujiki et al], 827
Biochemical and enzymatic characterization of purified covalent complexes of matrix metalloproteinase-9 and haptoglobin released by bovine granulocytes in vitro [GA Bannikov et al], 995

Medetomidine
Evaluation of cardiovascular effects of total intravenous anesthesia with propofol or a combination of ketamine-medetomidine-propofol in horses [MA Umar et al], 121

Melanoma
Altered expression of versican and hyaluronin in melanocytic tumors of dogs [M-J Docampo et al], 1376

Meloxicam
Evaluation of adverse effects of long-term oral administration of carprofen, etodolac, flunixin meglumine, ketoprofen, and meloxicam in dogs [SPL Luna et al], 258
Effects of the cyclooxygenase inhibitor meloxicam on recovery of ischemia-injured equine jejunum [D Little et al], 614

Mesenchymal Stem Cells
Isolation and characterization of bone marrow-derived equine mesenchymal stem cells [SJ Arnhold et al], 1095
Pharmacokinetics and pharmacodynamics of morphine in llamas
Morphine

Effects of in vitro exposure to hay dust on expression of interleukin-17, -23, -8, and -1β and chemokine (C-X-C motif) ligand 2 by pulmonary mononuclear cells isolated from horses chronically affected with recurrent airway disease

Evaluation of the influences of exercise, birth date, and osteoarthritic lesions of the thoracolumbar vertebral column in Boxers

Comparison of two doses of recombinant human bone morphogenetic protein in absorbable collagen sponges for bone healing in dogs

Comparison of insertion characteristics of two types of hydroxyapatite-coated and uncoated positive profile transfixation pins in the third metacarpal bone of horses

Comparison of continuous oral administration of phenylbutazone on serum cortisol concentrations in lactating goats


Evaluated the influences of exercise, birth date, and osteoarthritic lesions of the thoracolumbar vertebral column in Boxers

Comparison of two doses of recombinant human bone morphogenetic protein in absorbable collagen sponges for bone healing in dogs

Evaluation of the influences of exercise, birth date, and osteoarthritic lesions of the thoracolumbar vertebral column in Boxers

Comparison of two doses of recombinant human bone morphogenetic protein in absorbable collagen sponges for bone healing in dogs
Epidemiologic characteristics of catastrophic musculoskeletal injuries in Thoroughbred racehorses [AM Cruz et al], 1370

Mutant
Mutant-prevention concentrations of enrofloxacin for Escherichia coli isolates from chickens [Q Li et al], 812

MX Dynamin
Contribution of MX dynamin, oligoadenylate synthetase, and protein kinase R to anti-paramyxovirus activity of type 1 interferons in vitro [MP-P Leroy et al], 988

Mycobacterium spp
Field testing of an enhanced direct-fecal polymerase chain reaction procedure, bacterial culture of feces, and a serum enzyme-linked immunosorbent assay for detecting Mycobacterium avium subsp paratuberculosis infection in adult dairy cattle [HM Scott et al], 236

Role of the MAPKpathway in regulation of cytokine expression by Mycobacterium avium subsp paratuberculosis-exposed bovine monocytes [CD Souza et al], 625

Cell membrane receptors on bovine mononuclear phagocytes involved in phagocytosis of Mycobacterium avium subsp paratuberculosis [CD Souza et al], 975

Mycoplasma spp
Prevalence of feline herpesvirus 1, Chlamydothila felis, and Mycoplasma spp DNA in conjunctival cells collected from cats with and without conjunctivitis [HC Low et al], 643

Mycotoxins
Effects of foodborne Fusarium mycotoxins with and without a polymeric glucosaminan mycotoxin adsorbent on food intake and nutrient digestibility, body weight, and physical and clinopathologic variables of mature dogs [MXK Leung et al], 1122

Myocardial Performance Index
Changes in the myocardial performance index during dobutamine administration in anesthetized cats [Y Hori et al], 385

Comparison of the myocardial performance index derived by use of pulsed Doppler echocardiography and tissue Doppler imaging in dogs with volume overload [Y Hori et al], 1177

Effects of changes in loading conditions and heart rate on the myocardial performance index in cats [Y Hori et al], 1183

Myopathy
Biochemical and genetic evaluation of the role of AMP-activat-ed protein kinase in polysaccharide storage myopathy in Quarter Horses [PK Dranchak et al], 1079

Nervous System
Association between frontal-sinus size and syringohydratomyelia in small-breed dogs [PV Scrivani et al], 610

Noninvasive assessment of the facilitation of the nociceptive withdrawal reflex by repeated electrical stimulations in conscious dogs [A Bergadano et al], 899

Nociception
Effects of buprenorphine on nociception and spontaneous locomotor activity in horses [AB Carregaro et al], 246

Noninvasive assessment of the facilitation of the nociceptive withdrawal reflex by repeated electrical stimulations in conscious dogs [A Bergadano et al], 899

Determination and use of mechanical nociceptive thresholds of the thoracic limb to assess pain associated with induced osteoarthritis of the middle carpal joint in horses [KK Haussler et al], 1167

Nonsteroidal Anti-inflammatory Drugs (NSAIDs)

Effects of continuous oral administration of phenylbutazone on biomarkers of cartilage and bone metabolism in horses [ME Fradette et al], 128

Changes in platelet function, hemostasis, and prostaglandin expression after treatment with nonsteroidal anti-inflammatory drugs with various cyclooxygenase selectivities in dogs [BM Brainard et al], 251

Evaluation of adverse effects of long-term oral administration of carprofen, etodolac, flunixin meglumine, ketoprofen, and meloxicam in dogs [SPL Luna et al], 258

In vitro effects of reactive oxygen metabolites, with and without flunixin meglumine, on equine colonic mucosa [OJ Inoue et al], 305

Effects of urine alkalinization and activated charcoal on the pharmacokinetics of orally administered carprofen in dogs [MR Raekallio et al], 423

Effects of the cyclooxygenase inhibitor meloxicam on recovery of ischemia-injured equine jejenum [D Little et al], 614

Nose
Evaluation of the repeatability of rhinomanometry and its use in assessing transnasal resistance and pressure in dogs [TS Wiestner et al], 178

Obesity
Serum concentrations of adiponectin and characterization of adiponectin protein complexes in dogs [BL Brunson et al], 57

Prevalence of obese dogs in a population of dogs with cancer [LP Weeth et al], 389

Association of expiratory airway dysfunction with marked obesity in healthy adult dogs [JF Bach et al], 670

Oligoadenylate Synthetase
Contribution of MX dynamin, oligoadenylate synthetase, and protein kinase R to anti-paramyxovirus activity of type 1 interferons in vitro [MP-P Leroy et al], 988
Oligomeric Matrix Protein
Effects of treatment with polysulfated glycosaminoglycan on serum cartilage oligomeric matrix protein and C-reactive protein concentrations, serum matrix metalloproteinase-2 and -9 activities, and lameness in dogs with osteoarthritis [M Fujiki et al], 827

Oncology
Efficacy of maropitant for treatment and prevention of emesis caused by intravenous infusion of cisplatin in dogs [VA de la Puente-Redondo et al], 48
Expression of cyclooxygenase-1 and -2 in naturally occurring squamous cell carcinomas in horses [YA Elez et al], 76
Induction of chemoresistance in a cultured canine cell line by retroviral transduction of the canine multidrug resistance I gene [S Matsuura et al], 95
Immunohistochemical evaluation of cyclooxygenase expression in oral squamous cell carcinoma in horses [CL McNennis et al], 165
Evaluation of agreement between two instruments in measurements of radiation dose rates in cats that underwent iodine I 131 treatment [HJ Chalmers et al], 354
Prevalence of obese dogs in a population of dogs with cancer [LP Weeth et al], 389
Phase I clinical trial of the use of zinc phthalocyanine tetrasulfonate as a phototosensitizer for photodynamic therapy in dogs [A Bortgatt-Jeffreys et al], 399
Identification of serum biomarkers for canine B-cell lymphoma by use of surface-enhanced laser desorption-ionization time-offlight mass spectrometry [PJ Gaines et al], 405
Effect of the VP3 gene of chicken anemia virus on canine mammary tumor cells [J-J Lee et al], 411
Determination of proviral load in bovine leukemia virus-infected cattle with and without lymphocytosis [MA Juliarena et al], 1220
Expression of vascular endothelial growth factor in tumors and plasma from dogs with primary intracranial neoplasms [JH Rossmeisl et al], 1239
Evaluation of a novel immunomodulator composed of human chorionic gonadotropin and bacillus Calmette-Guerin for treatment of canine mast cell tumors in clinically affected dogs [CJ Henry et al], 1246
Altered expression of versican and hyaluronon in melanocytic tumors of dogs [M-J Docampo et al], 1376
Telomere length in normal and neoplastic canine tissues [CD Cadile et al], 1386

Ophthalmology
Immunohistochemical evaluation of cyclooxygenase expression in canine squamous cell carcinoma in horses [CL McNennis et al], 165
Ocular and systemic manifestations after oral administration of telomere length in normal and neoplastic canine tissues [CD Cadile et al], 1386

Orthopedics
Microchemical and surface evaluation of canine tibial plateau leveling osteotomy plates [WM Lackowski et al], 2007;68:908
Letter: Finds discrepancy between studies on canine tibial plateau leveling osteotomy plates [RJ Boudreau et al], 2007;68:1139
Response: [WM Lackowski et al], 2007;68:1140
Effects of a magnesium adhesive cement on bone stability and healing following a metatarsal osteotomy in horses [M Waselau et al], 370
Comparison of two doses of recombinant human bone morphogenetic protein in absorbable collagen sponges for bone healing in dogs [CW Schmiedt et al], 834
Comparison of insertion characteristics of two types of hydroxyapatite-coated and uncoated positive profile transfixation pins in the third metacarpal bone in horses [JR Zacharias et al], 1160

Osteoarthritis
Quantitative genetics of secondary hip joint osteoarthritis in a Labrador Retriever-Greyhoud pedigree [L Hays et al], 35
Clinical, biochemical, and histologic effects of intra-articular administration of autologous conditioned serum in horses with experimentally induced osteoarthritis [DD Frisbie et al], 250
Efficacy of tiludronate in the treatment of horses with signs of pain associated with osteoarthritic lesions of the thoracolumbar vertebral column [V Coudry], 329
Evaluation of avocado and soybean unsaponifiable extracts for treatment of horses with experimentally induced osteoarthritis [CE Kawcak et al], 598
Development and psychometric testing of an instrument designed to measure chronic pain in dogs with osteoarthritis [DC Brown et al], 631
Effects of treatment with polysulfated glycosaminoglycan on serum cartilage oligomeric matrix protein and C-reactive protein concentrations, serum matrix metalloproteinase-2 and -9 activities, and lameness in dogs with osteoarthritis [M Fujiki et al], 827
Subchondral bone density and cartilage degeneration patterns in osteoarthritic metacarpal condyles of horses [BD Young et al], 841
Determination and use of mechanical nociceptive thresholds of the thoracic limb to assess pain associated with induced osteoarthritis of the middle carpal joint in horses [KK Haussler et al], 1167

Osteochondrosis
Identification of infrared absorption spectral characteristics of synovial fluid of horses with osteochondrosis of the tarsocrural joint, 517
Identification of infrared absorption spectral characteristics of synovial fluid of horses with osteochondrosis of the tarsocrural joint [M Vijaomsorn et al], 517
Evaluation of the influences of exercise, birth date, and osteochondrosis on plasma bone marker concentrations in Hanoverian Warmblood foals [I Vervuert et al], 1319

Osteomy
Effects of a magnesium adhesive cement on bone stability and healing following a metatarsal osteotomy in horses [M Waselau et al], 370

Osteotomy Plates
Microchemical and surface evaluation of canine tibial plateau leveling osteotomy plates [WM Lackowski et al], 2007;68:908
Letter: Finds discrepancy between studies on canine tibial plateau leveling osteotomy plates [RJ Boudreau et al], 2007;68:1139
Response: [WM Lackowski et al], 2007;68:1140

Oxidative Capacity
Effect of exercise on development of capillary supply and oxidative capacity in skeletal muscle of horses [NJ Rietbroek et al], 1226

Oximetry
Evaluation of a combined transcutaneous carbon dioxide pressure and pulse oximetry sensor in adult sheep and dogs [R Vogt et al], 265

Oxygen
In vitro effects of reactive oxygen metabolites, with and without
flunixin meglumine, on equine colonic mucosa [OJ Inoue et al], 305
Effects of stimulation of adenosine A_{2A} receptors on lipopolysaccharide-induced production of reactive oxygen species by equine neutrophils [W-C Sun et al], 649
Computed tomographic analysis of the efforts of two inspired oxygen concentrations on pulmonary aeration in anesthetized and mechanically ventilated dogs [F Staffieri et al], 925

P

Pancracias
Digestive enzyme concentrations and activities in healthy pancreatic tissue of horses [M Lorenzo-Figueras et al], 1070

Paramyxovirus
Contribution of MX dynamin, oligoadenylate synthetase, and protein kinase R to antiparamyxovirus activity of type 1 interferons in vitro [MP-P Leroy et al], 988

Parasitology
Optimization of a species-specific polymerase chain reaction assay for identification of \textit{Pentatrichomonas hominis} in canine fecal specimens [JL Gookin et al], 783
Efficacy of tinidazole for treatment of cats experimentally infected with \textit{Tritrichomonas foetus} [JL Gookin et al], 1085

Parasympathomimetics
In vitro effects of bethanechol on specimens of intestinal smooth muscle obtained from the duodenum and jejunum of healthy dairy cows [M Lorenzo-Figueras et al], 313

Paratuberculosis
Role of the MAPK^{\alpha} pathway in regulation of cytokine expression by \textit{Mycobacterium avium} subsp \textit{paratuberculosis}–exposed bovine monocytes [CD Souza et al], 625

Pathology
Use of computed tomography to evaluate pathologic changes in the lungs of calves with experimentally induced respiratory tract disease [BV Lubbers et al], 1259

Patlak Plot
Single-slice dynamic computed tomographic determination of glomerular filtration rate by use of Patlak plot analysis in anesthetized pigs [K Alexander et al], 297

PCR Assays
Optimization of a species-specific polymerase chain reaction assay for identification of \textit{Pentatrichomonas hominis} in canine fecal specimens [JL Gookin et al], 783

Pedigree
Quantitative genetics of secondary hip joint osteoarthritis in a Labrador Retriever-Greyhound pedigree [L Hays et al], 35

Penciclovir
Pharmacokinetics and safety of penciclovir following oral administration of famciclovir to cats [SM Thomasy et al], 1252

\textit{Pentatrichomonas hominis}
Optimization of a species-specific polymerase chain reaction assay for identification of \textit{Pentatrichomonas hominis} in canine fecal specimens [JL Gookin et al], 783

Peptides
Antimicrobial activity of bovine bactericidal permeability–increasing protein-derived peptides against gram-negative bacteria isolated from the milk of cows with clinical mastitis [A Chockalingma et al], 1151

Perfusion
Dynamic computed tomographic quantitation of hepatic perfusion in dogs with and without portal vascular anomalies [AL Zwingerberger et al], 970

Periosteum
Immunohistochemical evaluation of substance P and calcitonin gene-related peptide in skin and periosteum after extracorporeal shock wave therapy and radial pressure wave therapy in sheep [JM Abed et al], 323

Perzinfotel
Effects of perzinfotel on the minimum alveolar concentration of isoflurane in dogs [T Kushiro et al], 1294

P-glycoprotein
Assessment of antiepileptic drugs as substrates for canine P-glycoprotein [CL West et al], 1106

Phagocytes
Cell membrane receptors on bovine mononuclear phagocytes involved in phagocytosis of \textit{Mycobacterium avium} subsp \textit{paratuberculosis} [CD Souza et al], 975

Pharmacodynamics
Pharmacokinetics and pharmacodynamics of morphine in llamas [SR Uhrig et al], 25
Pharmacokinetics and pharmacodynamics of \textit{\Sigma}-aminocaproic acid in horses [J Ross et al], 1016

Pharmacokinetics
Pharmacokinetics and pharmacodynamics of morphine in llamas [SR Uhrig et al], 25
Effects of urine alkalinization and activated charcoal on the pharmacokinetics of orally administered carprofen in dogs [MR Raekallio et al], 423
Pharmacokinetics and pharmacodynamics of \textit{\Sigma}-aminocaproic acid in horses [J Ross et al], 1016
Pharmacokinetics of gallium maltolate after intragastric administration in neonatal foals [RJ Martens et al], 1041
Pharmacokinetics of voriconazole following intravenous and oral administration and body fluid concentrations of voriconazole following repeated oral administration in horses [CMH Colitz et al], 1115
Pharmacokinetics and safety of penciclovir following oral administration of famciclovir to cats [SM Thomasy et al], 1252

Pharmacology
Bioavailability of a commercial formulation of ivermectin after subcutaneous administration to sheep [A Gonzalez Canga et al], 101
Pharmacologic characterization of novel adenosine A_{2A} receptor agonists in equine neutrophils [W Sun et al], 981

Phenytoin
Effects of continuous oral administration of phenytoin on biomarkers of cartilage and bone metabolism in horses [MÈ Fradette et al], 128

Phosphate
Effects of hypercalcemia on serum concentrations of magne-
sium, potassium, and phosphate and urinary excretion of electrolytes in horses [RE Toribio et al], 543

Phosphodiesterase
Phosphodiesterase isoenzymes in equine platelets and their influence on platelet adhesion [B Dunkel et al], 1354

Photodynamic Therapy
Phase I clinical trial of the use of zinc phthalocyanine tetrasulfonate as a photosensitizer for photodynamic therapy in dogs [A Borgatti-Jeffreys et al], 399

Physiology
Single-slice dynamic computed tomographic determination of glomerular filtration rate by use of Patlak plot analysis in anesthetized pigs [K Alexander et al], 297
Response of healthy dogs to infusions of human serum albumin [LA Cohn et al], 857
Evaluation of activation of protein kinase C during agonist-induced constriction of veins isolated from the laminar dermis of horses [TP Robertson et al], 664
Addition of chromic oxide to creep feed as a fecal marker for selection of creep feed-eating sucking pigs [WI Keller et al], 748
Effects of Rho-kinase and Src protein tyrosine kinase inhibition on agonist-induced vasoconstriction of arteries and veins of the equine laminar dermis [TP Robertson et al], 866
Retention of acetaminophen in an in vitro model of solid-phase gastric emptying of animals [CA Wyse et al], 895
Effects of oral administration of furomoxide and torsemide in healthy dogs [Y Horii et al], 1058
Effects of foodborne Fusarium mycotoxins with and without a polymeric glucanannan mycotoxin adsorbent on food intake and nutrient digestibility, body weight, and physical and clinical pathologic variables of mature dogs [MXK Leung et al], 1122
Comparison of the myocardial performance index derived by use of pulsed Doppler echocardiography and tissue Doppler imaging in dogs with volume overload [Y Horii et al], 1177
Effects of changes in loading conditions and heart rate on the myocardial performance index in cats [Y Horii et al], 1183
Effect of parenteral administration of erythromycin, tilmicosin, and tylosin on abomasal emptying rate in suckling calves [M Mitchell et al], 1192
Evaluation of activation of protein kinase during agonist-induced constriction of veins isolated from the laminar dermis of horses [TP Robertson et al], 664
Addition of chromic oxide to creep feed as a fecal marker for selection of creep feed-eating sucking pigs [WI Keller et al], 748
Effects of Rho-kinase and Src protein tyrosine kinase inhibition on agonist-induced vasoconstriction of arteries and veins of the equine laminar dermis [TP Robertson et al], 866
Retention of acetaminophen in an in vitro model of solid-phase gastric emptying of animals [CA Wyse et al], 895
Effects of oral administration of furomoxide and torsemide in healthy dogs [Y Horii et al], 1058
Effects of foodborne Fusarium mycotoxins with and without a polymeric glucanannan mycotoxin adsorbent on food intake and nutrient digestibility, body weight, and physical and clinical pathologic variables of mature dogs [MXK Leung et al], 1122
Comparison of the myocardial performance index derived by use of pulsed Doppler echocardiography and tissue Doppler imaging in dogs with volume overload [Y Horii et al], 1177
Effects of changes in loading conditions and heart rate on the myocardial performance index in cats [Y Horii et al], 1183
Effect of parenteral administration of erythromycin, tilmicosin, and tylosin on abomasal emptying rate in sucking calves [M Mitchell et al], 1392
Comparison of the effects of caffeine and doxapram on respiratory and cardiovascular function in foals with induced respiratory acidosis [S Giguère et al], 1407

Pins
Comparison of insertion characteristics of two types of hydroxyapatite-coated and uncoated positive profile transfixation pins in the third metacarpal bone if horses [JR Zacharias et al], 1160

Plants
Early laminar events involving endothelial activation in horses with black walnut-induced laminitis [JP Loftus et al], 1205

Plasma
Expression of vascular endothelial growth factor in tumors and plasma from dogs with primary intracranial neoplasms [JH Rossmeisl et al], 1239

Plaster of Paris
Effects of porcine small intestinal submucosa on elution characteristics of gentamicin-impregnated plaster of Paris [MR Seddighi et al], 171

Platelets
Serial alterations in digital hemodynamics and endothelin-1 immunoreactivity, platelet-neutrophil aggregation, and concentrations of nitric oxide, insulin, and glucose in blood obtained from horses following carbohydrate overload [SC Eades et al], 87
Changes in platelet function, hemostasis, and prostaglandin expression after treatment with nonsteroidal anti-inflammatory drugs with various cyclooxygenase selectivities in dogs [BM Brainard et al], 251
In vitro comparison of the effects of two forms of hydroxethyl starch solutions on platelet function in dogs [JR Wiernenga et al], 605
Prevalence of reduced fibrinogen binding to platelets in a population of Thoroughbreds [JW Norris et al], 716
Phosphodiesterase isoenzymes in equine platelets and their influence on platelet adhesion [B Dunkel et al], 1354
Alteration of release and role of adenosine diphosphate and thromboxane A2 during collagen-induced aggregation of platelets from cattle with Chediak-Higashi syndrome [N Honda et al], 1399

Pneumonia
Use of computed tomography to evaluate pathologic changes in the lungs of calves with experimentally induced respiratory tract disease [BV Lubbers et al], 1259

Polyhexamethylene Biguanide
Evaluation of a combination of sodium hypochlorite and polyhexamethylene biguanide as an egg wash for red-eared slider turtles (Trachemys scripta elegans) to suppress or eliminate Salmonella organisms on egg surfaces and in hatchlings [MA Mitchell et al], 158

Polymerase Chain Reaction Assay
Timing of seroconversion and acquisition of positive polymerase chain reaction assay results in calves experimentally infected with bovine leukemia virus [DW Nagy et al], 72
Development of quantitative polymerase chain reaction assays for allelic discrimination of gangliosidoses in cats [C-YJ Wang et al], 231
Field testing of an enhanced direct-fecal polymerase chain reaction procedure, bacterial culture of feces, and a serum enzyme-linked immunosorbent assay for detecting Mycobacterium avium subsp paratuberculosis infection in adult dairy cattle [HM Scott et al], 236

Polysaccharide
Biochemical and genetic evaluation of the role of AMP-activated protein kinase in polysaccharide storage myopathy in Quarter Horses [PK Dranchak et al], 1079

Porcine Reproductive and Respiratory Syndrome Virus (PRRSV)
Effect of vaccination with a modified-live porcine reproductive and respiratory syndrome virus vaccine on dynamics of homologous viral infection in pigs [JP Cano et al], 565

Portal Vein
Dynamic computed tomographic quantitation of hepatic perfusion in dogs with and without portal vascular anomalies [AL Zwingenberger et al], 970

Potassium
Effects of hypercalcemia on serum concentrations of magnesium, potassium, and phosphate and urinary excretion of electrolytes in horses [RE Toribio et al], 543

Prions
Associations between genotypes at codon 171 and 136 of the prion protein gene and production trials in market lambs [JM Evoniuk et al], 1073

Procaine
Plasma concentration and local anesthetic activity of procaine hydrochloride following subcutaneous administration to horses [NL Kuchembuck et al], 485, 495
Propofol
Evaluation of cardiovascular effects of total intravenous anesthesia with propofol or a combination of ketamine-meditomidine-propofol in horses [MA Umara et al], 121

Effects of remifentanil infusion regiments on cardiovascular function and responses to noxious stimulation in propofol-anesthetized cats [M doA Correa et al], 932

Prostaglandin
Changes in platelet function, hemostasis, and prostaglandin expression after treatment with nonsteroidal anti-inflammatory drugs with various cyclooxygenase selectivities in dogs [BM Brainard et al], 251

Protein
Effect of exercise on serum concentration of cartilage oligomeric matrix protein in Thoroughbreds [IE Halal et al], 134

Biochemical and genetic evaluation of the role of AMP-activated protein kinase in polysaccharide storage myopathy in Quarter Horses [PK Dranchak et al], 1079

Antimicrobial activity of bovine bacterial permeability-increasing protein-derived peptides against gram-negative bacteria isolated from the milk of cows with clinical mastitis [A Chockalingma et al], 1151

Assessment of a point-of-care biochemical analyzer and comparison with a commercial laboratory for the measurement of total protein and albumin concentrations in psittacines [MS Johnston et al], 1348

Protein Kinase
Evaluation of activation of protein kinase C during agonist-induced constriction of veins isolated from the laminar dermis of horses [TP Robertson et al], 664

Contribution of MX dynamin, oligoadenylate synthetase, and protein kinase R to anti-paramyxovirus activity of type 1 interferons in vitro [MP-P Leroy et al], 988

Prothrombin
Evaluation of a bench-top coagulation analyzer for measurement of prothrombin time, activated partial thromboplastin time, and fibrinogen concentrations in healthy dogs [HK Mineo et al], 1342

Protozoa
Efficacy of tinidazole for treatment of cats experimentally infected with Tritrichomonas foetus [JL Gookin et al], 1085

Provirus
Determination of proviral load in bovine leukemia virus-infected cattle with and without lymphocytosis [MA Juliarena et al], 1220

Pseudomonas spp
In vitro fluoroquinolone susceptibility of Pseudomonas aeruginosa isolates from dogs with ulcerative keratitis [EC Ledbetter et al], 638

Psittacines
Assessment of a point-of-care biochemical analyzer and comparison with a commercial laboratory for the measurement of total protein and albumin concentrations in psittacines [MS Johnston et al], 1348

Psychometry
Development and psychometric testing of an instrument designed to measure chronic pain in dogs with osteoarthritis [DC Brown et al], 631

Pustules
Pulsed-field gel electrophoresis patterns and antimicrobial susceptibility phenotypes for coagulase-positive staphylococcal isolates from pustules and carriag sites in dogs with superficial bacterial folliculitis [LR Pinchbeck et al], 535

Pythons
Computed tomography of the lungs of Indian pythons (Python molurus) [MC Pees et al], 428

Quarter Horses
Density and morphologic features of primary epidermal laminae in the feet of three-year-old racing Quarter Horses [LS Lancaster et al], 11

Biochemical and genetic evaluation of the role of AMP-activated protein kinase in polysaccharide storage myopathy in Quarter Horses [PK Dranchak et al], 1079

Rabbits
Endoscopic evaluation of bronchial morphology in rabbits [LR Johnson et al], 1022

Racing
Evaluation of detailed training data to identify risk factors for retirement because of tendon injuries in Thoroughbred race-horses [KKH Lam et al], 1188

Epidemiologic characteristics of catastrophic musculoskeletal injuries in Thoroughbred racehorses [AM Cruz et al], 1370

Radial Pressure Wave Therapy
Immunohistochemical evaluation of substance P and calcitonin gene-related peptide in skin and periosteum after extracorporeal shock wave therapy and radial pressure wave therapy in sheep [JM Abed et al], 323

Recombinant Vaccine
Efficacy of a canarypox-vectored recombinant vaccine expressing the hemagglutinin gene of equine influenza H3N8 virus in the protection of ponies from viral challenge [JM Minke et al], 213

Recurrent Airway Disease
Effects of in vitro exposure to hay dust on expression of interleukin-17, -23, -8, and -1α and chemokine (C-X-C motif) ligand 2 by pulmonary mononuclear cells isolated from horses chronically affected with recurrent airway disease [DM Ainsworth et al], 1361

Reflexes
Noninvasive assessment of the facilitation of the nociceptive withdrawal reflex by repeated electrical stimulations in conscious dogs [A Bergadano et al], 899

Remifentanil
Effects of remifentanil infusion regiments on cardiovascular function and responses to noxious stimulation in propofol-anesthetized cats [M doA Correa et al], 932

Reninangiotensin
Modulation of the tissue renin-angiotensin-aldosterone system in dogs with chronic mild regurgitation through the mitral valve [T Fuji et al], 1045

Reproductive System
Early fetal sexing of Saanen goats by use of transrectal ultrasonography to identify the genital tubercle and external genitalia [MHB Santos et al], 561

Antimicrobial activity of bovine bactericidal permeability-increasing protein-derived peptides against gram-negative bacteria isolated from the milk of cows with clinical mastitis [A Chockalingma et al], 1151
**Respiratory System**

Evaluation of the repeatability of rhinomanometry and its use in assessing transnasal resistance and pressure in dogs [TS Wiestner et al], 178

Influx of neutrophils and persistence of cytokine expression in airways of horses after performing exercise while breathing cold air [IMS Davis et al], 185

Evaluation of the ability of canarypox-vectored equine influenza virus vaccines to induce humoral immune responses against canine influenza viruses in dogs [K Karaca et al], 208

Efficacy of a canarypox-vectored recombinant vaccine expressing the hemagglutinin gene of equine influenza H3N8 virus in the protection of ponies from viral challenge [JM Minke et al], 213

Computed tomography of the lungs of Indian pythons (Python molurus) [MC Pees et al], 428

Quantification of mucin gene expression in tracheobronchial epithelium of healthy dogs and dogs with chronic bronchitis [EC Hawkins et al], 435

Association between frontal-sinus size and syringohydromyelia in small-breed dogs [PV Scrivani et al], 610

Association of expiratory airway dysfunction with marked obesity in healthy adult dogs [JF Bach et al], 670

Respiratory, mechanics in sedated and nonsedated adult llamas [KM Lascola et al], 676

Computed tomographic analysis of the efforts of two inspired oxygen concentrations on pulmonary aeration in anesthetized and mechanically ventilated dogs [F Staffieri et al], 925

Endoscopic evaluation of bronchial morphology in rabbits [LR Johnson et al], 1022

Use of computed tomography to evaluate pathologic changes in the lungs of calves with experimentally induced respiratory tract disease [BV Lubbers et al], 1259

Effects of cyproheptadine and cetirizine on eosinophilic airway inflammation in cats with experimentally induced asthma [EK Schooley et al], 1265

Cardiopulmonary effects of administration of a combination solution of xylazine, guaifenesin, and ketamine or inhaled isoflurane in mechanically ventilated calves [CL Kerr et al], 1287

Effects of in vitro exposure to hay dust on expression of interleukin-17, -23, -8, and -10 and chemokine (C-X-C motif) ligand 2 by pulmonary mononuclear cells isolated from horses chronically affected with recurrent airway disease [DM Ainsworth et al], 1361

Comparison of the effects of caffeine and doxapram on respiratory and cardiovascular function in foals with induced respiratory acidosis [S Giguère et al], 1407

**Retirement**

Evaluation of detailed training data to identify risk factors for retirement because of tendon injuries in Thoroughbred racehorses [KKH Lam et al], 1188

**Retroviruses**

Induction of chemoresistance in a cultured canine cell line by retroviral transduction of the canine multidrug resistance 1 gene [S Matsuura et al], 95

**Rhabdomyolysis**

Biochemical and genetic evaluation of the role of AMP-activated protein kinase in polysaccharide storage myopathy in Quarter Horses [PK Dranchak et al], 1079

**Rhinomanometry**

Evaluation of the repeatability of rhinomanometry and its use in assessing transnasal resistance and pressure in dogs [TS Wiestner et al], 178

**Rhodococcus equi**

Evaluation of fecal samples from mares as a source of Rhodococcus equi for their foals by use of a quantitative bacteriologic culture and colony immunoblot analyses [MB Grimm et al], 63

Pharmacokinetics of gallium maltolate after intragastric administration in neonatal foals [RJ Martens et al], 1041

**Rho-kinase**

Effects of Rho-kinase and Src protein tyrosine kinase inhibition on agonist-induced vasoconstriction of arteries and veins of the equine laminar dermis [TP Robertson et al], 886

**Risk Analysis**

Risk factors for proximal sesamoid bone fractures associated with exercise history and horseshow characteristics in Thoroughbred racehorses [LA Antenhill et al], 760

Evaluation of detailed training data to identify risk factors for retirement because of tendon injuries in Thoroughbred racehorses [KKH Lam et al], 1188

**Safety**

Pharmacokinetics and safety of penciclovir following oral administration of famciclovir to cats [SM Thomasy et al], 1252

**Salmonella spp**

Evaluation of a combination of sodium hypochlorite and polyhexamethylene biguanide as an egg wash for red-eared slider turtles (Trachemys scripta elegans) to suppress or eliminate Salmonella organisms on egg surfaces and in hatchlings [MA Mitchell et al], 158

**Σ-aminoacaproic Acid**

Pharmacokinetics and pharmacodynamics of Σ-aminoacaproic acid in horses [J Ross et al], 1016

**Serology**

Timing of seroconversion and acquisition of positive polymerase chain reaction assay results in calves experimentally infected with bovine leukemia virus [DW Nagy et al], 72

Regional seroprevalence of bluetongue virus in cattle in Illinois and western Indiana [TC Boyer et al], 1212

**Sesamoid Bones**

Risk factors for proximal sesamoid bone fractures associated with exercise history and horseshow characteristics in Thoroughbred racehorses [LA Antenhill et al], 760

**Sexing**

Early fetal sexing of Saanen goats by use of transrectal ultrasonography to identify the genital tubercule and external genitalia [MHB Santos et al], 561

**Shoulder Joint**

Evaluation of anticollegen type I antibody titers in synovial fluid of both stifle joints and the left shoulder joint of dogs with unilateral cranial cruciate disease [T de Bruin et al], 283

Cytokine mRNA expression in synovial fluid of affected and contralateral stifle joints and the left shoulder joint in dogs with unilateral disease of the stifle joint [T deBruin et al], 953

**Show Jumping**

Effect of show jumping training on the development of locomotory muscle in young horses [NJ Rietbroek et al], 1232

**Sinuses**

Association between frontal-sinus size and syringohydromyelia in small-breed dogs [PV Scrivani et al], 610

**Skeletal Muscle**

Effect of exercise on development of capillary supply and oxidative capacity in skeletal muscle of horses [NJ Rietbroek et al], 1226

Effect of show jumping training on the development of locomotory muscle in young horses [NJ Rietbroek et al], 1232
Skin
Neutrophil myeloperoxidase measurements in plasma, laminar tissue, and skin of horses given black walnut extract [LM Riggs et al], 81
Immunohistochemical evaluation of substance P and calcitonin gene-related peptide in skin and peristeum after extracorporeal shock wave therapy and radial pressure wave therapy in sheep [UM Abed et al], 323
Pulsed-field gel electrophoresis patterns and antimicrobial susceptibility phenotypes for coagulase-positive staphylococcal isolates from pustules and carriage sites in dogs with superficial bacterial folliculitis [LR Pinchbeck et al], 535
Sled Dogs
Effect of strenuous exercise on urine concentrations of homovanillic acid, cortisol, and vanillylmandelic acid in sled dogs [LL Durocher et al], 107
Smoke
Urinary biomarkers to assess exposure of cats to environmental tobacco smoke [EA McNiel et al], 349
Smooth Muscle
In vitro effects of bethanechol on specimens of intestinal smooth muscle obtained from the duodenum and jejunum of healthy dairy cows [JBR Pfeiffer et al], 313
Snakes
Computed tomography of the lungs of Indian pythons (Python molurus) [MC Pees et al], 428
Comparison of ophthalmic measurements obtained via high-frequency ultrasound imaging in four species of snakes [SR Hollingsworth et al], 1111
Sodium Bicarbonate
Effects of hypertonic sodium bicarbonate solution on electrolyte concentrations and enzyme activities in newborn calves with respiratory and metabolic acidosis [UT Bleul et al], 850
Sodium Hypochlorite
Evaluation of a combination of sodium hypochlorite and polyhexamethylene biguanide as an egg wash for red-eared slider turtles (Trachemys scripta elegans) to suppress or eliminate Salmonella organisms on egg surfaces and in hatchlings [MA Mitchell et al], 158
Soybean
Evaluation of avocado and soybean unsaponifiable extracts for treatment of horses with experimentally induced osteoarthritits [CE Kawcak et al], 598
Spectrometry
Identification of serum biomarkers for canine B-cell lymphoma by use of surface-enhanced laser desorption-ionization time-of-flight mass spectrometry [PJ Gaines et al], 405
Identification of infrared absorption spectral characteristics of synovial fluid of horses with osteochondrosis of the tarsoocular joint [M Vijarnsorn et al], 517
Sponges
Comparison of two doses of recombinant human bone morphogenetic protein in absorbable collagen sponges for bone healing in dogs [CW Schmiedt et al], 834
Squamous Cell Carcinoma
Expression of cyclooxygenase-1 and -2 in naturally occurring squamous cell carcinomas in horses [YA Elce et al], 76
Immunohistochemical evaluation of cyclooxygenase expression in corneal squamous cell carcinoma in horses [CL McInnis et al], 165
Sgc Protein Tyrosine Kinase
Effects of Rho-kinase and Src protein tyrosine kinase inhibition on agonist-induced vasoconstriction of arteries and veins of the equine laminar dermis [TP Robertson et al], 886
Staphylococcus spp
Pulsed-field gel electrophoresis patterns and antimicrobial susceptibility phenotypes for coagulase-positive staphylococcal isolates from pustules and carriage sites in dogs with superficial bacterial folliculitis [LR Pinchbeck et al], 535
Stem Cells
Effect of fibroblast growth factor-2 on equine mesenchymal stem cell monolayer expansion and chondrogenesis [AA Stewart et al], 941
Isolation and characterization of bone marrow-derived equine mesenchymal stem cells [SJ Arnhold et al], 1095
Stenosis
Time-frequency and complexity analyses for differentiation of physiologic murmurs from heart murmurs caused by aortic stenosis in Boxers [K Höglund et al], 962
Stomach
Retention of acetaminophen in an in vitro model of solid-phase gastric emptying of animals [CA Wyse et al], 895
Streptococcus agalactiae
Breaking strength and elasticity of synthetic absorbable suture materials incubated in phosphate-buffered saline solutions, milk, and milk contaminated with Streptococcus agalactiae [S Nichols et al], 441
Stress
Effect of transportation stress on heat shock protein 70 concentration and mRNA expression in heart and kidney tissues and serum enzyme activities and hormone concentrations of pigs [H Yu et al], 1145
Submucosa
Effects of porcine small intestinal submucosa on elution characteristics of gentamicin-impregnated plaster of Paris [MR Seddighi et al], 171
Substance P
Immunohistochemical evaluation of substance P and calcitonin gene-related peptide in skin and peristeum after extracorporeal shock wave therapy and radial pressure wave therapy in sheep [UM Abed et al], 323
Surgery
Breaking strength and elasticity of synthetic absorbable suture materials incubated in phosphate-buffered saline solutions, milk, and milk contaminated with Streptococcus agalactiae [S Nichols et al], 441
Suture Material
Breaking strength and elasticity of synthetic absorbable suture materials incubated in phosphate-buffered saline solutions, milk, and milk contaminated with Streptococcus agalactiae [S Nichols et al], 441
Swine Virus Fever
Serum concentrations of C-reactive protein, serum amyloid A, and haptoglobin in pigs inoculated with African swine fever or classical swine fever viruses [PJ Sánchez-Cordón et al], 772
Synovial Fluid
Evaluation of anticolonagen type I antibody titers in synovial fluid of both stifle joints and the left shoulder joint of dogs with unilateral cranial cruciate disease [T de Bruin et al], 283
Identification of infrared absorption spectral characteristics of synovial fluid of horses with osteochondrosis of the tarsoocular joint, 517
Identification of infrared absorption spectral characteristics of synovial fluid of horses with osteochondrosis of the tarsocrural joint [M Vijnomsorn et al], 517
Dorsolateral approach for the arthrocentesis of the centrodiscal joint in horses [EM Just et al], 946
Cytokine mRNA expression in synovial fluid of affected and contralateral stiffe joints and the left shoulder joint in dogs with unilateral disease of the stiffe joint [T deBruin et al], 953

Synoviocytes
Assessment of cartilage degradation effects of matrix metalloproteinase-13 in equine cartilage cocultured with synoviocytes [LA Fortier et al], 379

Synovitis
Kinetic gait and subjective analysis of the effects of a tachykinin receptor antagonist in dogs with sodium urate-induced synovitis [JP Punke et al], 704

Syringohydromyelia
Association between frontal-sinus size and syringohydromyelia in small-breed dogs [PV Scrivani et al], 610

T

Tachykinin
Kinetic gait and subjective analysis of the effects of a tachykinin receptor antagonist in dogs with sodium urate-induced synovitis [JP Punke et al], 704

Tarsocrural Joint
Identification of infrared absorption spectral characteristics of synovial fluid of horses with osteochondrosis of the tarsocrural joint, 517

Telomere
Telomere length in normal and neoplastic canine tissues [CD Cadile et al], 1386

Tendons
Evaluation of detailed training data to identify risk factors for retirement because of tendon injuries in Thoroughbred racehorses [KKH Lam et al], 1188

Theriogenology
Early fetal sexing of Saanen goats by use of transrectal ultrasonography to identify the genital tubercle and external genitalia [MH-B Santos et al], 561
Fetal protection against continual exposure to bovine viral diarrhea virus following administration of a vaccine containing an inactivated bovine viral diarrhea virus fraction to cattle [DL Grooms et al], 1417

Thermography
Evaluation of thermographic imaging of the limbs of healthy dogs [CA Loughlin et al], 1064

Thoroughbreds
Effect of exercise on serum concentration of cartilage oligomeric matrix protein in Thoroughbreds [IE Halal et al], 134
Prevalence of reduced fibrinogen binding to platelets in a population of Thoroughbreds [JW Norris et al], 716
Risk factors for proximal sesamoid bone fractures associated with exercise history and horseshow characteristics in Thoroughbred racehorses [LA Anthenill et al], 760
Evaluation of detailed training data to identify risk factors for retirement because of tendon injuries in Thoroughbred racehorses [KKH Lam et al], 1188

Thromboplastin
Evaluation of a bench-top coagulation analyzer for measurement of prothrombin time, activated partial thromboplastin time, and fibrinogen concentrations in healthy dogs [HK Mineo et al], 1342

Thromboxane A2
Alteration of release and role of adenosine diphosphate and thromboxane A2 during collagen-induced aggregation of platelets from cattle with Chediak-Higashi syndrome [N Honda et al], 1399

Tibia
Effect of conformation of the distal portion of the femur and proximal portion of the tibia on the pathogenesis of cranial cruciate ligament disease in dogs [TG Guerrero et al], 1332

Tibial Plateau
Microchemical and surface evaluation of canine tibial plateau leveling osteotomy plates [WM Lackowski et al], 2007;68:908
Letter: Finds discrepancy between studies on canine tibial plateau leveling osteotomy plates [RJ Boudrieau et al], 2007;68:1139
Response: [WM Lackowski et al], 2007;68:1140

Tiludronate
Efficacy of tiludronate in the treatment of horses with signs of pain associated with osteoarthritic lesions of the thoracolumbar vertebral column [V Coudry], 329

Time-frequency Analysis
Time-frequency and complexity analyses for differentiation of physiologic murmurs from heart murmurs caused by aortic stenosis in Boxers [K Högliund et al], 962

Tinidazole
Efficacy of tinidazole for treatment of cats experimentally infected with Tritrichomonas foetus [JL Gookin et al], 1085

Tobacco
Urinary biomarkers to assess exposure of cats to environmental tobacco smoke [EA McNiel et al], 349

Torsemide
Effects of oral administration of furosemide and torsemide on abomasal emptying rate in suckling calves [M Nouri et al], 1392

Total Intravenous Anesthesia
Evaluation of cardiovascular effects of total intravenous anesthesia with propofol or a combination of ketamine-medetomidine-propofol in horses [MA Umar et al], 121

Toxicology
Neutrophil myeloperoxidase measurements in plasma, laminar tissue, and skin of horses given black walnut extract [LM Riggs et al], 81
Urinary biomarkers to assess exposure of cats to environmental tobacco smoke [EA McNiel et al], 349
Evaluation of local and systemic effects after intramuscular implantation of lead shot alternatives in rats [EA Hoots et al], 446
Early laminar events involving endothelial activation in horses with black walnut-induced laminitis [JP Loftus et al], 1205

Trachea
Effects of cyproheptadine and cetirizine on eosinophilic airway inflammation in cats with experimentally induced asthma [EK Schooley et al], 1265

Training
Evaluation of detailed training data to identify risk factors for...
retirement because of tendon injuries in Thoroughbred race-horses [KKH Lam et al], 1188
Effect of show jumping training on the development of locomotory muscle in young horses [NJ Rietbroek et al], 1232

Transfixation
Comparison of insertion characteristics of two types of hydroxyapatite-coated and uncoated positive profile transfixation pins in the third metacarpal bone if horses [JR Zacharias et al], 1160

Transnasal Resistance
Evaluation of the repeatability of rhinomanometry and its use in assessing transnasal resistance and pressure in dogs [TS Wiestner et al], 178

Transportation
Effect of transportation stress on heat shock protein 70 concentration and mRNA expression in heart and kidney tissues and serum enzyme activities and hormone concentrations of pigs [H Yu et al], 1145

Trichomonas foetus
Efficacy of tinidazole for treatment of cats experimentally infected with *Trichomonas foetus* [JL Gookin et al], 1085

Troponin
Prospective screening for occult cardiomyopathy in dogs by measurement of plasma atrial natriuretic peptide, B-type natriuretic peptide, and cardiac troponin-I concentrations [MA Oyama et al], 42
Evaluation of serum cardiac troponin I concentrations in Boxers with arrhythmogenic right ventricular cardiomyopathy [RD Baumwart et al], 524

Tubercules
Early fetal sexing of Saanen goats by use of transrectal ultrasonography to identify the genital tubercle and external genitalia [MHB Santos et al], 561

Tumors
Expression of vascular endothelial growth factor in tumors and plasma from dogs with primary intracranial neoplasms [JH Rossmeisi et al], 1239

Turbidimetric Immunoassay
Evaluation of a turbidimetric immunoassay for measurement of plasma IgG concentration in foals [PM McCue et al], 1005

Turtles
Evaluation of a combination of sodium hypochlorite and polyhexamethylene biguanide as an egg wash for red-eared slider turtles (*Trachemys scripta elegans*) to suppress or eliminate *Salmonella* organisms on egg surfaces and in hatchlings [MA Mitchell et al], 158

Tylosin
Effect of parenteral administration of erythromycin, tilmicosin, and tylosin on abomasal emptying rate in suckling calves [M Nouri et al], 1392

Udders
Breaking strength and elasticity of synthetic absorbable suture materials incubated in phosphate-buffered saline solutions, milk, and milk contaminated with *Streptococcus agalactiae* [SN Nichols et al], 441

Ultrasoundography
Transcutaneous ultrasonographic evaluation of gastric distension with fluid in horses [MLores et al], 153
Early fetal sexing of Saanen goats by use of transrectal ultrasonography to identify the genital tubercle and external genitalia [MHB Santos et al], 561

Comparison of ophtalmic measurements obtained via high-frequency ultrasound imaging in four species of snakes [SR Hollingsworth et al], 1111

Urate
Kinetic gait and subjective analysis of the effects of a tachykinin receptor antagonist in dogs with sodium urate-induced synovitis [JP Punke et al], 704

Urinary System
In vivo evaluation of α2-adrenoceptors in cats with idiopathic cystitis [JL Westropp et al], 203
Single-slice dynamic computed tomographic determination of glomerular filtration rate by use of Patlak plot analysis in anesthetized pigs [KAlexander et al], 237
Influence of three anesthetic protocols on glomerular filtration rate in dogs [MFusellier et al], 807
Effects of oral administration of furosemide and torsemide in healthy dogs [YHori et al], 1058
Effect of transportation stress on heat shock protein 70 concentration and mRNA expression in heart and kidney tissues and serum enzyme activities and hormone concentrations of pigs [H Yu et al], 1145

Urine
Effect of strenuous exercise on urine concentrations of homovanillic acid, cortisol, and vanillylmandelic acid in sled dogs [LDurocher et al], 107
Urinary biomarkers to assess exposure of cats to environmental tobacco smoke [EA McNiel et al], 349
Effects of urine alkalization and activated charcoal on the pharmacokinetics of orally administered carprofen in dogs [MRaekallio et al], 423

Vaccinology
Evaluation of the ability of canarypox-vectored equine influenza virus vaccines to induce humoral immune responses against canine influenza viruses in dogs [KKaraca et al], 208
Efficacy of a canarypox-vectored recombinant vaccine expressing the hemagglutinin gene of equine influenza H3N8 virus in the protection of ponies from viral challenge [JMMinke et al], 213
Effect of vaccination with a modified-live porcine reproductive and respiratory syndrome virus vaccine on dynamics of homologous viral infection in pigs [JSano et al], 565
Characterization of protection against systemic infection and disease from experimental bovine viral diarrhea virus type 2 infection by use of a modified-live noncytopathic type 1 vaccine in calves [CLKelling et al], 788
Fetal protection against continual exposure to bovine viral diarrhea virus following administration of a vaccine containing an inactivated bovine viral diarrhea virus fraction to cattle [DLGrooms et al], 1417

Vanillylmandelic Acid
Effect of strenuous exercise on urine concentrations of homovanillic acid, cortisol, and vanillylmandelic acid in sled dogs [LDurocher et al], 107

Vasoconstriction
Effects of Rho-kinase and Src protein tyrosine kinase inhibition of agonist-induced vasoconstriction of arteries and veins of the equine laminar dermis [TPRobertson et al], 886

Veins
Evaluation of activation of protein kinase C during agonist-induced constriction of veins isolated from the laminar dermis of horses [TPRobertson et al], 664
Effects of Rho-kinase and Src protein tyrosine kinase inhibition on agonist-induced vasoconstriction of arteries and veins of the equine laminar dermis [TPRobertson et al], 896
Fetal protection against continual exposure to bovine viral diarrhea virus following administration of a vaccine containing an inactivated bovine viral diarrhea virus fraction to cattle [DL Grooms et al], 1417

Pharmacokinetics and safety of penciclovir following oral administration [SM Thomasy et al], 1051

Assessment of longitudinal tissue Doppler imaging of the left ventricular septum and free wall as an indicator of left ventricular systolic function in dogs [Y Hori et al], 1051

Regional seroprevalence of bluetongue virus in cattle in Illinois [MA Juliarena et al], 1212

Contribution of MX dynamin, oligoadenylate synthetase, and protein kinase R to anti-paramyxovirus activity of type 1 interferons in vitro [MP-P Leroy et al], 988

Evaluation of the ability of canarypox-vectored recombinant vaccine expressing the hemagglutinin gene of equine influenza H3N8 virus in the protection of ponies from viral challenge [JM Minke et al], 213

Characterization of protection against systemic infection and disease from experimental bovine viral diarrhea virus type 2 infection by use of a modified-live noncytopathic type 1 vaccine in calves [CL Kelling et al], 772

Evaluation of the safety of canarypox-vectored recombinant vaccine expressing the hemagglutinin gene of equine influenza H3N8 virus in pigs [K Karaca et al], 208

Efficacy of a canarypox-vectored recombinant vaccine expressing the hemagglutinin gene of equine influenza H3N8 virus in the protection of ponies from viral challenge [JM Minke et al], 213

Effect of voltage-gated and capacitative calcium entry blockade on agonist-induced constriction of equine laminar blood vessels [JF Peroni et al], 722

Timing of seroconversion and acquisition of positive polymerase chain reaction assay results in calves experimentally infected with bovine leukemia virus [DW Nagy et al], 72

Evaluation of the ability of canarypox-vectored equine influenza virus vaccines to induce humoral immune responses against canine influenza viruses in dogs [K Karaca et al], 208

Efficacy of a canarypox-vectored recombinant vaccine expressing the hemagglutinin gene of equine influenza H3N8 virus in the protection of ponies from viral challenge [JM Minke et al], 213

Effect of vaccination with a modified-live porcine reproductive and respiratory syndrome virus vaccine on dynamics of homologous viral infection in pigs [JP Cano et al], 565

Prevalence of feline herpesvirus 1, Chlamydotphila felis, and Mycoplasma spp DNA in conjunctival cells collected from cats with and without conjunctivitis [HC Low et al], 643

Serum concentrations of C-reactive protein, serum amyloid A, and haptoglobin in pigs inoculated with African swine fever virus vaccines to induce humoral immune responses against canine influenza viruses in dogs [K Karaca et al], 208

Efficacy of canarypox-vectored recombinant vaccine expressing the hemagglutinin gene of equine influenza H3N8 virus in the protection of ponies from viral challenge [JM Minke et al], 213

Characterization of protection against systemic infection and disease from experimental bovine viral diarrhea virus type 2 infection by use of a modified-live noncytopathic type 1 vaccine in calves [CL Kelling et al], 772

Effect of vaccination with a modified-live porcine reproductive and respiratory syndrome virus vaccine on dynamics of homologous viral infection in pigs [JP Cano et al], 565

Prevalence of feline herpesvirus 1, Chlamydotphila felis, and Mycoplasma spp DNA in conjunctival cells collected from cats with and without conjunctivitis [HC Low et al], 643

Serum concentrations of C-reactive protein, serum amyloid A, and haptoglobin in pigs inoculated with African swine fever virus vaccines to induce humoral immune responses against canine influenza viruses in dogs [K Karaca et al], 208

Characterization of protection against systemic infection and disease from experimental bovine viral diarrhea virus type 2 infection by use of a modified-live noncytopathic type 1 vaccine in calves [CL Kelling et al], 772

Effect of vaccination with a modified-live porcine reproductive and respiratory syndrome virus vaccine on dynamics of homologous viral infection in pigs [JP Cano et al], 565

Prevalence of feline herpesvirus 1, Chlamydotphila felis, and Mycoplasma spp DNA in conjunctival cells collected from cats with and without conjunctivitis [HC Low et al], 643

Serum concentrations of C-reactive protein, serum amyloid A, and haptoglobin in pigs inoculated with African swine fever virus vaccines to induce humoral immune responses against canine influenza viruses in dogs [K Karaca et al], 208