Competitively Funded Research Projects

Evaluation of clinical methods of pulmonary function assessment in the standing horse: Murray MJ, Davis MS, Donaldson LL, Furr MO

SOURCE: Clinical Initiatives Grant, Virginia-Maryland Regional College of Veterinary Medicine, 1993-1995

Evaluation of clinical measurements of pulmonary gas exchange efficiency in the horse: Murray MJ, Davis MS, Donaldson LL, Furr MO
SOURCE: Paul Mellon Equine Research Fund, 1993-1995

Lower respiratory disease in Thoroughbred racehorses: Quantifying lung dysfunction and response to treatment: Murray MJ, Davis MS, Fregin GF, Donaldson LL, Furr MO
SOURCE: Chrysler Corp Triple Crown Awards, 1995-1996

Hyperpnea-induced airway injury in horses: Davis MS, Freed AN, Murray MJ, Donaldson LL
SOURCE: Thoroughbred Retirement Foundation, 1997

Effects of repeated dry air challenge on canine peripheral airways: Davis MS
SOURCE: NIH-NHLBI Individual NRSA, 1997-1998

Pathogenic Mechanisms in Exercise-Induced Asthma: Davis MS
SOURCE: OCAST Health Research Programs, 1999-2002

Hyperpnea-induced airway injury in horses: Davis MS
SOURCE: Thoroughbred Charities of America, 1998-2002

Effect of laser staphlectomy on soft palate function in brachycephalic dogs: Davidson EB, Campbell G, Davis MS, Bartels K.
SOURCE: Oklahoma State University College of Veterinary Medicine Seed Grant, 1999

Detection of Bovine Respiratory Disease Complex Susceptibility using Markers of Oxidative Stress: Step DL, Confer A, Davis MS, Kirkpatrick J, Wyckoff J.
SOURCE: Oklahoma Agricultural Experiment Station, 1999

Expired Breath Ethane as a Marker of Gastrointestinal Reperfusion Injury. Davis MS, Risby TR, Mandsager RE, Major MA, Hague BR.
SOURCE: Morris Animal Foundation, 2001-2004

Scintigraphic Evaluation of Exercise-Induced Airway Mucosal Injury. Davis MS, Blaik MA, Foster WM
SOURCE: Oklahoma Agricultural Experiment Station, 2001-2003

Effects of Unconditioned Air on Equine Peripheral Airways. Davis MS, Marlin DM, Malayer J
SOURCE: USDA-CREES, 2002-2004

Animal Models of Exercise-Induced Airway Disease. Davis MS, Marlin DM, Malayer J, Nelson SL, Payton ME
SOURCE: NIH, 2002-2005

Effect of Strenuous Exercise on Gastrointestinal Permeability. Davis MS, Willard MD, Mandsager RE, Hinchcliff KW
SOURCE: DARPA/DOD, 2002-2003

Effects of subclinical intoxication with anticholinesterases on pulmonary mechanical properties and susceptibility to acute asthma. Davis MS, Pope CN, Williamson KK
SOURCE: Oklahoma State University Presidential Challenge Grants, 2003-2006
(PROGRAM CANCELLED DUE TO BUDGET SHORTFALLS)

Pathophysiology and Biomarkers of Sustained Exertion Disease Syndromes. Davis MS, Hinchcliff KW, Willard MD, Holbrook TC, McKenzie E, Williamson KK
SOURCE: Defense Sciences Office, DARPA 2003-2005

Oxidative Stress in Racehorses. Davis MS, Holbrook TC, Williamson KK, McKenzie EC
SOURCE: Oklahoma Agricultural Experiment Station, 2003-2004

NCRR Training Grant for Veterinary Students in Research. Davis MS, Malayer JR, Ownby CL
Source: National Institutes of Health National Center for Research Resources 2004-2007

Eicosanoids in Cold-Induced Airway Mucosal Injury. Davis MS, Costa LRR.
Source: Research Advisory Committee, Oklahoma State University College of Veterinary Medicine 2004-2005

Confidential. Hinchcliff K, Davis MS, McKenzie EC.
Source: Rosetta Inpharmatics LLC, 2004

Membrane Damage Due To Oxidative Stress From Prolonged Exercise As A Potential Mechanism Promoting Gastric Erosions: A Pilot Study To Define “Burned Membrane Syndrome”. Bibus D, Phinney S, Davis MS
Source: International Federation of Sleddog Sports 2005

Metabolic strategy for fatigue resistance during extended exercise. Davis MS, Williamson KK, Malayer JR
Source: Research Advisory Committee, Oklahoma State University College of Veterinary Medicine 2005-2006

Cold Air-Induced Airway Inflammation and Immunosuppression in Horses. Davis MS, Ritchey JR, Malayer JR, Williamson KK, Holbrook TC
Source: Oklahoma Agricultural Experiment Station, 2005-2007