

CURRICULUM VITAE

Dennis Wayne Wilson
Professor Emeritus of Pathology
Department of Pathology, Microbiology and Immunology
School of Veterinary Medicine
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Professional Education

University of Illinois, Urbana, Illinois
B.S., 1970 - Biology

University of Illinois, Urbana, Illinois
D.V.M., 1975 - Veterinary Medicine

University of Illinois, Urbana, Illinois
MS, 1979 - Environmental Toxicology

University of California, Davis
Ph.D., 1983 - Comparative Pathology

Specialty Boards

Diplomate, American College of Veterinary Pathologists, 1983
Examination Committee Proctor, 1997
Examination Committee Member 2001 -2004

Honors

NSF undergraduate Research Fellow, 1969
Phi Zeta Veterinary Honor Society, 1974
Sigma Xi Scientific Honor Society, 1974
Pharmaceutical Manufacturers Association Career Development Award, 1984

Professional Experience

Research Assistant in Veterinary Toxicology, 1972-1976
University of Illinois, Urbana, IL

Private Veterinary, Practice, 1976-1979
Danville, Illinois

NIEHS Environmental Pathology Trainee, 1979-1982
University of California, Davis, CA

Assistant (1983-1990) Associate (1990-1995) and Full Professor (1995-present)
Department of Veterinary Pathology,
University of California, Davis, CA

Associate Director for Laboratory Diagnostic Services, Veterinary Medical Teaching Hospital,
1995- 2001, University of California- Davis, CA

Chairman, Graduate Group in Comparative Pathology
1992- 2004 University of California-Davis

Chairman Department of Pathology, Microbiology and Immunology

EXTRAMURALLY FUNDED GRANTS

Dennis W. Wilson

Research Support:

RECENT COMPLETED

RO1 HL55667 (Rutledge) 7/1/2009 – 6/30/2011 10%
NIH/NHLB
Interactions of Lipoproteins with the Vascular Wall

This proposal examines the mechanisms of the endothelial cell permeability barrier responses to lipoproteins.

California Air Resources Board 2/2011 - 1/2013
Location specific systemic health effects of ambient particulate matter 10%

This study characterizes the pulmonary and systemic inflammatory responses of mice exposed to concentrated ambient particulate matter in comparison with intratracheal instillation of collected ambient particles. The goal is to determine mechanisms of location specific compositions that influence to cardiovascular effects of environmental particulate matter exposure.
Role: Principal Investigator

ACTIVE

California Air Resources Board 4/2014-3/2017
Co-exposure to PM and O-3: Pulmonary C fiber and platelet activation in decreased HRV 5%

This study investigates the connection between pulmonary inflammation, systemic platelet activation and heart rate variability in response to inhaled particulates.
Role: co-Investigator

NIH MMPC opportunity Funds 7/2014 – 6/2017
Assessment of cognitive function in mouse metabolic models 5%

This multicenter study correlates vascular changes in normal and LDLr -/- fed high fat diets with changes in behavior, MRI imaging and metabolomics.
Role: co-investigator

NIH NHLB 7/2014 – 6-2019 5%
Role of lipid droplets in neurovascular inflammation

This study evaluates the relationship of diet induced intracellular lipids on vascular inflammation relative to induction of vascular based dementia using in vitro studies, mouse models and human specimens

Role: co-investigator

PUBLICATIONS

Dennis W. Wilson

1. 1975 Wilson, D.W. and L.G. Hansen. Changes in kinetic characteristics of sheep liver microsomes following induction and dietary stress. *Toxicology and Applied Pharmacology* 31:114-119.
2. 1976 Wilson, D.W. and L.G. Hansen. Comparative kinetics and inhibition of swine and sheep liver microsomal enzymes. *General Pharmacology* 7:371-375.
3. 1976 Hansen, L.G., Beamer, P.D., Wilson, D.W., and R.C. Metcalf. Effects of feeding polychlorinated biphenyls to broiler cocherels in three dietary regimens. *Poultry Science* 55:1084-1088.
4. 1976 Hansen, L.G., Wilson, D.W., and C.S. Byerly. Effects on growing swine and sheep of two polychlorinated biphenyls. *American Journal Veterinary Research* 37:1021-1024.
5. 1977 Hansen, L.G., Wilson, D.W., Byerly, C.S., Sundlof, S.F., and S.B. Dorn. Effects and residues of dietary hexachlorobenzene in growing swine. *Journal of Toxicology and Environmental Health* 2:557-567.
6. 1981 Hansen, L.G., Sundlof, S.F., Wilson, D.W., and G.D. Koritz. Dynamics of hexachlorobenzene in domestic animals in Symposium on Health and Ecological Effects of Halogenated Hydrocarbons, M.A.Q. Kahn, ed., Pergamon Press, New York.
7. 1983 Plopper, C.G., Mariassy, A.T., Wilson, D.W., Alley, S.J., Nishio, S.J., and P. Nettesheim. Comparison of tracheal epithelial cells in six mammalian species: Ultrastructure and population densities. *Experimental Lung Research* 5:281-294.
8. 1984 Wilson, D.W., Plopper, C.G., and D.M. Hyde. The Tracheobronchial epithelium of the bonnet monkey (*Macaca radiata*): A quantitative ultrastructural study. *American Journal of Anatomy*, 171:25-40.
9. 1984 Wilson, D.W., Plopper, C.G., and D.L. Dungworth. The response of the macaque tracheobronchial epithelium to acute ozone injury: A quantitative ultrastructural and autoradiographic study. *American Journal of Pathology* 116:193-206.
10. 1984 Wilson, D.W., Day, P.A., and M.E.G. Brummer. Diarrhea associated with *Cryptosporidium* spp. in juvenile macaques. *Veterinary Pathology* 21:447-450.
11. 1984 Joseph, G.B., Wilson, D.W., Henrickson, R.V., Robinson, P.T., and K. Benirschke. Treatment of pulmonary acariasis in rhesus macaques (*Macaca mulatta*) with Ivermectin. *Laboratory Animal Science*, 34:360-364.
12. 1984 Coulombe, R.A., Wilson, D.W., and D.P.H. Hsieh. Metabolism, DNA binding, and cytotoxicity of Aflatoxin B1 in tracheal explants from syrian hamsters. *Toxicology*, 32:117-130.
13. 1985 Segall, H.J., Wilson, D.W., Dallas, J.L. and W.F. Haddon. Trans-4-hydroxy-2-hexenal: A reactive metabolite from the macrocyclic pyrrolizidine alkaloid senecionine. *Science*, 229:472-475.
14. 1985 Cross, C.E., Warren, D. Gerriets, J.E. Wilson, D.W., Halliwell, B., and Last, J.A. Deferoxamine injection does not affect bleomycin induced lung fibrosis in rats. *J. Lab. Clin. Med.* 106:433-438.
15. 1986 Wilson, D.W., Segall, H.J. and M.W. Lame'. Hepatic pathological changes due to hydroxyalkenals. Proceedings of the First International Conference on reactive intermediates. *Advances in Experimental Medicine and Biology*, 197:853-860.
16. 1986 Coulombe, R.A., Wilson, D.W., Hsieh, D.P.H., Plopper, C.G., and Serabjit-Singh, C.J. Metabolism of Aflatoxin B1 in the upper airways of the rabbit, role of the nonciliated tracheal epithelial cell. *Cancer Res.* 46:4091-4096.

17. 1986 Nikula, K.J. and Wilson, D.W. Ozone-induced injury to tracheal epithelium in vitro: morphologic correlation of injury with dose in microbeam analysis - 1986. A.D. Romig and W.F. Chambers, Eds. San Francisco Press, Inc. San Francisco pp.567-570.
18. 1987 Harkema, J.R., Plopper, C.G., Hyde, D.M., St. George, J.A., Wilson, D.W. and Dungworth, D.L. Response of the Macaque Nasal Epithelium to Ambient Levels of Ozone: A Morphologic and Morphometric Study of the Transitional and Respiratory Epithelium. *Am. J. Pathol.*, 128:29-44.
19. 1987 Harkema, J.R., Plopper, C.G., Hyde, D.M., Wilson, D.W., St. George, J.A. and Wong, V.J. Non-olfactory surface epithelium of the nasal cavity of the bonnet monkey: A morphologic and morphometric study of the transitional and respiratory epithelium. *American Journal of Anatomy*, 180(3):266-279.
20. 1988 Nikula, K.J., Wilson, D.W., Giri, S.N., Plopper, C.G. Dungworth, D.L. The Response of the Rat Tracheal Epithelium to Ozone Exposure: Injury, Adaptation, and Repair. *The American Journal of Pathology*, 131(2):373-384.
21. 1988 Nikula, K.J., Wilson, D.W., Dungworth, D.L. and Plopper, C.G. In Vitro Evidence of Cellular Adaptation to Ozone Toxicity in the Rat Trachea. *Toxicology and Applied Pharmacology*, 93(3):394-402.
22. 1988 Mariassy, A.T., Plopper, C.G., St. George, J.A. and Wilson, D.W.: Tracheobronchial Epithelium of the Sheep: IV. Lectin Histochemical Characterization of Secretory Epithelial Cells. *The Anatomical Record*, 222:49-59.
23. 1988 Plopper, C.G., Weir, A., St. George, J., Tyler, N., Mariassy, A., Wilson, D., Nishio, S., Cranz, D., Heidsiek, J. and Hyde, D. Cell Populations of the respiratory system: Interspecies diversity in composition, distribution and morphology, In Inhalation Toxicology, Springer Verlag, Berlin pp. 25-40.
24. 1989 Wilson, D. W., Segall, H.J., Pan. L. C.W., and Dunston, S.K. Progressive inflammatory and Structural Changes in the Pulmonary Vasculature of Monocrotaline-Treated Rats. *Microvascular Research*, 38:57-80.
25. 1989 Segall, H.J., Wilson, D.W., Griffin, D.S., Winter, C.K., Morin, D.M. and Lamé, M.W. The Identification, Metabolism and Toxicity Associated with the Macrocyclic Pyrrolizidine Alkaloids. *Natural Toxins-Characterization Pharmacology and Therapeutics* Ed - C.L. Ownby and G.U. Odell Pergaman Press Elmstead, New York, pp. 30-40.
26. 1989 Blanchard, P.C. and Wilson, D.W. Group G Streptococcal Infections in Kittens: Current Veterinary Therapy X, R.W. Kirk, ed. W.B. Saunders Co., Orlando, Florida, pp. 1091-1093.
27. 1990 Lamé, M. W., Morin, D., Jones, D. A., Segall, H.J., and D. W. Wilson. Isolation and identification of a pyrrolic glutathione conjugate metabolite of the pyrrolizidine alkaloid monocrotaline. *Toxicology Letters*, 51:321-329.
29. 1990 Wilson, D. W., Ball, W. R., and R. A. Coulombe, Jr. Comparative Action of Aflatoxin B₁ in Mammalian Airway Epithelium. *Cancer Research* 50:2493-2498.
30. 1990 Wilson, D.W. and H.J. Segall. Changes in Type II Cell Populations in Monocrotaline Pneumotoxicity. *American Journal of Pathology*. 136:1293-1301.
31. 1990 Nikula, K. J., and D. W. Wilson. Response of Rat Tracheal Epithelium to Ozone and Oxygen Exposure in Vitro. *Fundamental and Applied Toxicology* 15,121-131.
32. 1989 Blanchard, P.C. and Wilson, D.W. Streptococcus Group G Infections in cats. In: *Infectious Diseases of the Dog and Cat* 2nd edition, C.G. Green, ed. W.B. Saunders Co., Orlando, Florida.
33. 1989 Robison, T.W., Giri, S.N. and Wilson, D.W. Effects of Chronic administration of doxorubicin on myocardial creatine phosphoinase and antioxidant defenses and levels of lipid peroxidation in tissues and plasma of rats. *J. Biochem. Toxicol.* 4(2):87-94.

34. 1990 Madewell, B.R., Wilson, D.W., Hornof, W.J. and C.R. Gregory. Leukemoid blood response and bone infarcts in a dog with renal tubular adenocarcinoma. *Journal of American Veterinary Medicine Association*, 197:1623-1625.
35. 1990 Plopper, C.G., St. George, J., Pinkerton, K.E., Tyler, N., Mariassy, A., Wilson, D.W., Wu, R., Hyde, D.M. and M.J. Evans. Tracheobronchial epithelium *in vivo*: Composition, differentiation, and response to hormones. In: *Biology Toxicology and Carcinogenesis of Respiratory Epithelium*. D.G. Thomassen, Ph.D. & P. Nettekheim, M.D., Ed. Hemisphere Pub. Corp. NY, NY. pp. 6-23.
36. 1990 Segall, H.J., Wilson, D.W., Winter, C.K., Lamé, M.W. and D. Morin. Metabolism of pyrrolizidine alkaloids, *in*: *Handbook of Natural Toxins*, Vol 6.
37. 1990 Plopper, C.G., Weir, A., St. George, J., Tyler, N., Mariassy, A., Wilson, D., Nishio, S., Gary, D., Heidsiek, J. and D. Hyde. Species differences in airway cell distribution and morphology. *in*: *Extrapolation Modeling of Inhaled Particles and Gases: Lung Dosimetry*, Capo, J.D. (ed.), American Journal of Anatomy, Chapter 3 pg. 19-34.
38. 1991 Coulombe, R.A., Jr., Huie, J.M., Ball, R.W., Sharma, R.P. and D.W. Wilson. Pharmacokinetics of intratracheally administered aflatoxin B₁. *Toxicology and Applied Pharmacology*, 109:196-206.
39. 1991 Pan, L.C., Lamé, M.W., Morin, D., Wilson, D.W. and H.J. Segall. Red blood cells augment transport of reactive metabolites of monocrotaline from liver to lung in isolated and tandem liver and lung preparations. *Toxicology and Applied Pharmacology*, 110:336-346.
40. 1991 Estep, J.E., Lamé, M.W., Morin, D., Jones, A.D., Wilson, D.W. and H.J. Segall. [14C]monocrotaline kinetics and metabolism in the rat. *Drug Metabolism and Disposition: The Biological Fate of Chemicals*, Jan.-Feb. 19(1):135-139.
41. 1992 Harkema, J.R., Jones, S.E., Naydan, D.K. and D.W. Wilson. Brief Communications and Case Reports. An Atypical Neuroendocrine Tumor in the Lung of a Beagle Dog. *Vet Pathol* 29:175-179(1992).
42. 1992 Lamé, M.W., Morin, D., Jones, A.D., Segall, H.J. and D.W. Wilson. Metabolism of ¹⁴C-monocrotaline by the *in situ* isolated perfused liver. *Proceedings of the 3rd International Symposium on Poisonous Plants*. James, L.F., Keeler, R.F., Barley, E.M., Cheeke, P.R. and M.P. Hegartz eds. Iowa State University Press, Ames, Iowa, pp. 589-593.
43. 1992 Wilson, D.W., Hacker, A.H. and H.J. Segall. Cell proliferation in the lungs of monocrotaline treated rats. *Poisonous Plants: Proceedings of the 3rd International Symposium on Poisonous Plants*. James, L.F., Keeler, R.F., Barley, E.M., Cheeke, P.R. and M.P. Hegartz eds. Iowa State University Press, Ames, Iowa, pp. 215-221.
44. 1992 Dueker, S.R., Lamé M.W., Morin, D., Wilson, D.W. and H.J. Seagall. Guinea Pig and Rat Hepatic Microsomal Metabolism of Monocrotaline. *Drug Metab. and Disposit*, 20:275-280.
45. 1992 Kaneko J.J.; Rudolph W.G.; Wilson D.W.; Carlson G.P.. Bile acid fractionations by high-performance liquid chromatography in equine liver disease. *Veterinary Research Communications*, 16:161-72.
46. 1992 Wilson, D.W., Segall, H.J., Pan, L.C. Lamé, M.W., Estep, J.E. and D. Morin. Mechanisms and pathology of monocrotaline pulmonary toxicity. *Critical Rev. Toxicol.* 22:307-25.
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48. 1993 Pan, L.C., Wilson, D.W., Lamé, M.W., Jones, A.D. and H.J. Segall. Cor Pulmonale is Caused by Monocrotaline and Dehydromonocrotaline, but not Glutathione or Cysteine Conjugates of Dihydropyrrolizine. *Toxicol. Appl. Pharmacol.* 118:87-97.
49. 1993 Pan, L.C., Wilson D.W. and H.J. Segall. Strain differences in the response of Fischer 344 and Sprague Dawley rats to monocrotaline induced pulmonary vascular disease. *Toxicology.* 79:21-35.

50. 1993 Lackner A. and D.W. Wilson. Cryptosporidiosis in macaques. ILSI Monographs on Pathology of Laboratory Animals. Jones, T.C., Mohr, U. and R.D. Hunt, (eds) Springer Verlag, Berlin pp 41-45.
51. 1993 Harkema J.R., Plopper C.G., Hyde D.M., St. George J.A., Wilson D.W., Dungworth D.L., Response of macaque bronchiolar epithelium to ambient concentrations of ozone. *American Journal of Pathology*, 143:857-66.
52. 1993 Kim H.Y., Stermitz F.R., Molyneux R.J., Wilson D.W., Taylor D.W., Coulombe R.A. Jr. Structural influences on pyrrolizidine alkaloid-induced cytopathology. *Toxicology and Applied Pharmacology*, 122:61-9.
53. 1993 Wisner E.R., O'Brien T.R., Lakritz J., Pascoe J.R., Wilson D.W., Tyler, W.S., Radiographic and microscopic correlation of diffuse interstitial and bronchointerstitial pulmonary patterns in the caudodorsal lung of adult thoroughbred horses in race training. *Equine Veterinary Journal*, 1993 Jul, 25(4):293-8.
54. 1993 Witschi H., Wilson D.W., Plopper C.G., Modulation of N-nitrosodiethylamine-induced hamster lung tumors by ozone. *Toxicology*, 77(1-2):193-202.
56. 1994 Tarkington ; Wu R; Sun WM; Nikula KJ; Wilson DW; Last JA. In vitro exposure of tracheobronchial epithelial cells and of tracheal explants to ozone. *Toxicology* 88:51-68.
57. 1994 Raabe, O.G., Wilson, D.W. Al-Bayati, M.A. Hornof, W.J. and Rosenblatt, L.S. Biological effects of inhaled pollutant aerosols *Ann. Occup. Hyg.* 38 323-330
58. 1994 Peauroi JR; Lowenstine LJ; Munn RJ; Wilson DW. Multicentric skeletal sarcomas associated with probable retrovirus particles in two African hedgehogs (*Atelerix albiventris*). *Veterinary Pathology*: 481-4.
59. 1994 McDonough SP; Woodbury AH; Galey FD; Wilson DW; East N; Bracken E. Hepatogenous photosensitization of sheep in California associated with ingestion of *Tribulus terrestris* (puncture vine). *Journal of Veterinary Diagnostic Investigation* :392-5.
60. 1995 Segall, H.J., Wilson, D.W., Lame, M.W., Morin, D., Pan L.C., and Jones, A.D. Monocrotaline pulmonary toxicity: Mechanisms and Pathology in *Plant Associated Toxins: Agricultural, Phytochemical and Ecological Aspects* Colegate, S.M., and Dorling, P.R. (eds)
61. 1995 Lame, M.W., Jones, A.D., Morin, D., Segall, H.J. and Wilson, D.W. Identification of a cysteine-glycine metabolite of monocrotaline. in *Plant Associated Toxins: Agricultural, Phytochemical and Ecological Aspects* Colegate, S.M., and Dorling, P.R. (eds)
62. 1995 Adler, R. and Wilson, D.W. Biliary cystadenomas of cats *Vet. Pathol.* 32(4):415-8.
63. 1995 Lame MW; Jones AD; Morin D; Segall HJ; Wilson DW. Biliary excretion of pyrrolic metabolites of [¹⁴C]monocrotaline in the rat. *Drug Metabolism and Disposition*, 23(3):422-9.
64. 1996 Lamé, M.W., Morin, D., Wilson, D.W. and Segall, H.J., Methods to obtain radiolabelled monocrotaline, *J. Labelled Compds. and Radiopharm.* 12:1053-1060
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75. 1998 Wilson, D.W., Lame, M.W., Dunston, S.K., Taylor, D.W. and Segall, H.J. Monocrotaline pyrrole interacts with actin and increases thrombin-mediated permeability in pulmonary artery endothelial cells. *Toxicology and Applied Pharmacology* 152: 138-44.
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77. 1999 Woods, L.W., Wilson, D.W. and Segall, H.J. Manipulation of injury and repair of the alveolar epithelium using two pneumotoxicants: 3-methylindole and monocrotaline.” *Experimental Lung Research* 25: 165-81
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83. 2002 Tham, D.M., B. Martin-McNulty, Y.X. Wang, V. Da Cunha, D.W. Wilson, C.N. Athanassios, A.F. Powers, M.E. Sullivan and J.C. Rutledge. Angiotensin II injures the arterial wall causing increased aortic

- stiffening in apolipoprotein E. deficient mice. *American Journal of Physiology, Regulatory, Integrative and Comparative Physiology* 283(6):1442-1449.
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 87. 2003 Baby Martin-McNulty, Doris M. Tham, Valdeci da Cunha, Jerrick J. Ho, Dennis W. Wilson, John C. Rutledge, Gary G. Deng, Ronald Vergona, Mark E. Sullivan, Yi-Xin Wang 17_ -Estradiol Attenuates Development of Angiotensin II–Induced Aortic Abdominal Aneurysm in Apolipoprotein E–Deficient Mice. *Arterioscler Thromb Vasc Biol.*;23:1627-1632
 88. 2003 Woods, LW, Wilson, DW The Respiratory System, Pathology in Clinical Veterinary Toxicology Plumlee, C. ed. Mosby St Louis MO
 92. 2006 Lamé, MW, Jones, AD, Wilson, DW, Segall, HJ Monocrotaline pyrrole targets proteins with and without cysteine residues in the cytosol and membranes of human pulmonary artery endothelial cells *Proteomics* 5(17): 4398-413.
 93. 2006 Ramos, M. Lamé, M.W. Segall, H.J. Wilson D.W The BMP type II Receptor is Located in Lipid Rafts, including Caveolae, of Pulmonary Endothelium *In-Vivo* and *In-Vitro*. *Vasc. Pharmacol.* 44(1): 50-9
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Book Chapters:

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2. 1989 Segall HJ, Wilson DW, Griffin DS, Winter DK, Morin DM, Lamé MW: The Identification, Metabolism and Toxicity Associated with the Macrocyclic Pyrrolizidine Alkaloids, CL Ownby, Odell GU, (ed), *Natural*

- Toxins- Characterization Pharmacology and therapeutics, Pergoman Press, Elmstead, New York. 30-40.
3. 1989 Blanchard PC, Wilson DW: Streptococcus Group G. Infections in cats, CG Green, (ed), Infectious Diseases of the Dog and Cat 2nd edition, WB Saunders Co, Orlando, Florida. 603-605.
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 9. 1992 Lame MW, Morin D, Jones AD, Segall HJ, Wilson DW: Metabolism of ¹⁴C-monocrotaline by the In situ Isolated Perfused Liver, LF James, Keeler RF, Barley EM, Cheeke PR, Hegartz MP, (ed), Proceedings of the 3rd International Symposium on Poisonous Plants, Iowa State University Press, Ames, Iowa. 589-593.
 10. 1992 Wilson DW, Hacker AH, Segall HJ: Cell Proliferation in the Lungs of Monocrotaline Treated Rats, James LF, Keeler RF, Barley EM, in Cheeke PR, Hegartz MP, (ed), Poisonous Plants: Proceedings of the 3rd International Symposium on Poisonous Plants, Iowa State University Press, Ames, Iowa. 215-221.
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 12. 1995 Segall HJ, Wilson DW, Lame MW, Morin D, Pan LC, Jones AD: Monocrotaline pulmonary toxicity: Mechanisms and Pathology in Plant Associated Toxins, Colegate, SM, Dorling PR, (ed), Agricultural, Phytochemical and Ecological Aspects.
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 14. 1999 Dungworth DL, Hauser B, Hahn FF, Wilson DW, Haenichen T, Harkema JR: Histological classification of tumors of the respiratory system of domestic animals, F Y Schulman, (ed), World Health Organization International Histological Classification of Tumors of Domestic Animals.
 15. 2002 Wilson DW, Dungworth DL: Tumors of the respiratory tract in Moulton's, Meuton, D, (ed), Tumors of Domestic Animals, Iowa State University Press, Ames IA.
 16. 2002 Woods LW, Wilson DW: The respiratory system, C Plumlee, (ed), Pathology in Clinical Veterinary Toxicology, Mosby, St. Louis, MO.
 17. 2010 Plummer L, Pinkerton K, Madl A, Wilson DW: Effects of Nanoparticles on the Pulmonary Vasculature, Cassee, F., (ed), Cardiovascular Effects of Inhaled Fine and Nano-sized Particles.
 18. 2014 Wilson DW: Tumors of the respiratory tract Meuton, D, (ed), Tumors of Domestic Animals, Iowa State University Press, Ames IA.

Recent Presentations

1. 2006 Bone Morphogenetic Protein Receptors and Pulmonary Hypertension, University of Maine-Orno.
2. 2006 Pulmonary Pathology of Domestic and Non-Domestic Animals (Invited), American Association of Zoo and Wildlife Veterinarians Annual Conference, Tampa FL.
3. 2006 TGF β family signaling in endothelial biology (Invited), University of South Alabama Distinguished Speaker Series.
4. 2006 Comparative Pathology of Interstitial Lung Disease (Invited), University of South Alabama.
5. 2006 The Endothelial Cell in Vascular Remodeling (Invited), ACVP Annual Meeting: Tucson AZ.
6. 2008 Pulmonary Pathology (Invited), European College of Veterinary Pathology Summer School Program Jaca, Spain.
7. 2009 Endothelial Stress Responses and the Elmer Fudd approach to discovery. Distinguished Speaker Series (Invited), School of Veterinary Medicine Oregon State University.
8. 2009 Endothelial Stress Response Systems: Emerging Thoughts, Jackson Laboratories, Bar Harbor ME.
9. 2010 Endothelial Stress Responses in Vascular Disease, University of Washington Department of Comparative Medicine Seattle WA.
10. 2011 Heart Failure and the Lung: A roundabout trip from the lung to the failing heart and back, Second Annual Lung Research Day UC Davis.
11. 2011 Potato Chips, Stress, and Autoimmunity: New Insights in Myocardial Fibrosis, PMI Department Seminar Series UC Davis.
12. 2011 Lung Biology, CL Davis Symposium on Respiratory Pathology (Invited) AAVLD annual meeting Buffalo NY.
13. 2011 Emerging Respiratory Diseases of Small Animals, CL Davis Symposium on Respiratory Pathology (Invited) AAVLD annual meeting Buffalo NY.
14. 2011 Introduction to Vascular Biology Symposium, Annual Meeting of the ACVP (Invited symposium organizer) Nashville Tenn.
15. 2012 Pulmonary Pathology (Invited), European College of Veterinary Pathology Summer School Program Dublin Ireland
16. 2012 Pulmonary Vascular Inflammation and Systemic Coagulation (Invited), Society of Toxicologic Pathology (STP) Pacific Northwest Regional Meeting, Seattle WA
17. 2014 Novel Biomarkers of Vascular Injury, HESI Cardiovascular Disease Biomarkers Working Group Washington DC