

April 2016
PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P.

SENIOR PATHOLOGIST

EDUCATION:

Bachelor of Science, Iowa State University, Ames, IA.

Doctor of Veterinary Medicine, Iowa State University, Ames, IA.

Veterinary Pathology Residency, Department of Veterinary Pathobiology University of Illinois, Champaign-Urbana, IL

Doctor of Philosophy, Department of Veterinary Pathobiology Purdue University, West Lafayette, IN.

CERTIFICATIONS/LICENSURE:

Diplomate of the American College of Veterinary Pathologists

Licensed veterinarian in Iowa, Indiana, and Wisconsin

EXPERTISE/INTERESTS:

Animal Model Development

Cardiovascular Pathology

Immunology

Immunopathology

Immunotoxicology

Medical Device Pathology

Renal Pathology

PRESENT POSITION AND EXPERIENCE:

2014 - Present **Manager, Midwest and Senior Pathologist**, EPL Midwest, West Lafayette, IN

Responsible for project management and for the microscopic evaluation of tissues from experimental animals used in a variety of toxicological studies from pharmaceutical, biotechnical, and agricultural clients. Offering histopathology and peer review services, as well as organization of Pathology Working Groups. Provide interpretation of ultrastructural pathology. Consultation to clients on regulatory issues.

2007 - 2014 **Professor of Pathology**, Department of Comparative Pathobiology
Purdue University, West Lafayette, IN

1999 – 2014 **Director of Purdue Histology and Phenotyping Laboratory**

This is a service laboratory within the Medical Discovery Resource Unit that is responsible for providing histological services to the researchers of the department, school, university and private sector for investigative purposes. I have been director of this laboratory since 1999.

2000 - 2007 **Associate Professor of Pathology**, Department of Veterinary
Pathobiology Purdue University, West Lafayette, IN

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. – continued:

- 1995 - 2000** **Assistant Professor of Pathology**, Department of Veterinary Pathobiology Purdue University, West Lafayette, IN
- 1994 - 1995** **Visiting Assistant Professor of Pathology**, Department of Veterinary Pathobiology, Purdue University, West Lafayette, IN
- 1992 - 1994** **Visiting Instructor**, Department of Veterinary Pathobiology Purdue University, West Lafayette, IN
- 1985 - 1987** **Veterinarian**, Oregon Veterinary Medical Clinic, Oregon, WI

PROFESSIONAL MEMBERSHIPS AND AFFILIATIONS:

American Association of Veterinary Immunologists
American College of Veterinary Pathologists
American Veterinary Medical Association
American College of Toxicologists
CL Davis Comparative Pathology
Midwest Association of Veterinary Pathologists
Society of Toxicologic Pathologists, Full Member

HONORS AND AWARDS:

1992 Phi Zeta Graduate Research Award
1999 Weedon Faculty Recognition Teaching Award
International Academy of Toxicologic Pathology, Fellow
Phi Zeta, Honor Society of Veterinary Medicine

ADJUNCT APPOINTMENTS:

Adjunct Professor of Pathology and Laboratory Medicine at the Lafayette Center for Medical Education in the Indiana University School of Medicine.

Visiting Professor of Pathology, St George's University, Grenada (2012 - Present)

PUBLICATIONS AND PAPERS:

Wang F, Johnson RL, Snyder PW, DeSmet ML, Fleet JC. An Inducible, Large-Intestine-Specific Transgenic Mouse Model for Colitis and Colitis-Induced Colon Cancer Research. *Dis Dis Sci*. 2016 Apr;61(4):1069-79.

Vahle JL, Byrd RA2, Blackbourne JL, Martin JA, Sorden SD, Ryan T, Pienkowski T, Rosol TJ, Snyder PW, Klöppel G. Effects of the GLP-1 Receptor Agonist Dulaglutide on the Structure of the Exocrine Pancreas of Cynomolgus Monkeys. *Toxicol Pathol* 2015 Oct;43(7):1004-14.

Swanson EA, Freeman LJ, Seleem MN, Snyder PW. Biofilm-infected wounds in a dog. *J Am Vet Med Assoc*. 2014 Mar 15;244(6):699-707.

Everds NE, Snyder PW, Bailey KL, Bolon B, Creasy OM, Foley GL, Rosol TJ, Sellers T. Interpreting stress responses during routine toxicity studies: A review of the biology, impact, and assessment. *Toxicol Pathol*. 2013;41(4):560-614.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Burcham GN, Cresswell GM, Snyder PW, Chen L, Liu X, Crist SA, Henry MD, Ratliff TL. Impact of prostate inflammation on lesion development in the POET3(+)/Pten(+/-) mouse model of prostate carcinogenesis. *Am J Pathol* 2014 Dec;184(12):3176-91.

Jiang Q1, Jiang Z, Hall YJ, Jang Y, Snyder PW, Bain C, Huang J, Jannasch A, Cooper B, Wang Y, Moreland M. Gamma-tocopherol attenuates moderate but not severe colitis and suppresses moderate colitis-promoted colon tumorigenesis in mice. *Free Radic Biol Med*. 2013 Dec;65:1069-77.

Pader, K, Lescun TB, Rodin LL, Snyder PW, Freeman LJ. Ovariectomy via transvaginal natural orifice transluminal endoscopic surgery (Notes[®]): Preliminary study in 6 mares. Submitted to *Veterinary Surgery*, 2012.

Searfoss GH, Sharma AK, Hall DG, Reams RY, Snyder PW, Jordan WH. Using Gene Expression Analysis Approaches to Provide Insights into the Mechanisms Underlying the Origins of Delayed Onset Seizures in a Rat Kainic Acid Treatment Model. Submitted to *Toxicologic Pathology*, 2012.

Freeman LJ, Al-Haddad M, McKenna D, Sherman S, Constable PD, Snyder PW. Gastrostomy Closure with T-Fasteners in Natural Orifice Transluminal Endoscopic Surgery (NOTES): In vivo study in dogs. Submitted to *Vet Surgery*, 2012.

Everds NE, Snyder PW, Bailey KL, Bolon B, Creasy DM, Foley, GL, Rosol TJ, Sellers T. Interpreting Stress Responses during Routine Toxicology Studies: A Review of the Biology, Impact, and Assessment. Accepted *Tox Pathol*, 2012.

Wang G, Fulkerson CM, Malek R, Ghassemifar S, Snyder PW, Mendrysa SM. Mutations in Lysr and p53 are synergistically lethal in female mice. *Birth Defects Res A Clin Mol Teratol*. 2012 Sep;94(9):729-37.

Snyder PW. Immunology for the toxicologic pathologist. *Toxicol Pathol* 2012;40(2):143-7, 2012.

Le Boedic K, Heng HG, Snyder PW, Pressler BM. Pulmonary abnormalities in dogs with renal azotemia. *J Vet Intern Med*. 2012 Sep-Oct;26(5):1099-106.

Stuart K, John Paderi J, Snyder PW, Panitch A, Freeman L. Collagen-Binding Peptidoglycans Inhibit MMP-1 Mediated Collagen Degradation and Prevent Dermal Scarring. *PLoS One*. 2011;6(7):e22139. Epub 2011 Jul 11.

Gelb HR, Freeman LJ, Rohleder JR, Snyder PW. Feasibility of contrast-enhanced ultrasound guided biopsy of sentinel lymph nodes in dogs. *Vet Radiol Ultrasound* 51(6) 628-33, 2010.

Haverkamp JM, Charbonneau B, Myerholtz DK, Cohen MB, Snyder PW, Svensson RU, Henry MD, Wang HH, Ratliff TL. Characterization of an inducible mouse model of abacterial prostatitis. *Prostate* 71(11) 11701-11715, 2011.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Pader K, Freeman LJ, DVM, Snyder PW, Constable PD, Wu CC, Lescun TB. Comparison of Transvaginal Natural Orifice Transluminal Endoscopic Surgery (NOTES[®]) and Laparoscopy for Elective Bilateral Ovariectomy in Standing Mares. *Vet Surg.* 2011 Dec;40(8):998-1008.

Kiupel M, Webster JD, Bailey KL, Best S, Delay J, Detrisac CJ, Fitzgerald SD, Gamble D, Ginn PE, Goldschmidt MH, Hendrick MJ, Hendrick MJ, Howerth EW, Janovitz EB, Langohr I, Lenz SD, Lipscomb TP, Miller MA, Misdorp W, Moroff S, Mullaney TP, Neyens I, O'Toole D, Ramos-Vara J, Scase TJ, Schulman FY, Sledge D, Smedley RC, Smith K, Snyder PW, Southorn E, Stedman NL, Steficek BA, Stromberg PC, Valli VE, Weisbrode SE, Yager J, Heller J, Miller R. Proposal of a 2-Tier Histologic Grading System for Canine Cutaneous Mast Cell Tumors to More Accurately Predict Biological Behavior. *Vet Pathol.* 2011 Jan;48(1):147-55

Gurkan UA, Dubikovsky A, Freeman LJ, Snyder PW, Meldrum R, Akkus O. A Novel In Vivo Actuation System for Mechanicostimulation of Large Wound Healing and Closure. Submitted to *Wound Repair and Regeneration.*

Kishore V, Uquillas JA, Dubikovsky A, Snyder PW, Breur G, Akkus O. In Vivo Response to Electrochemically Aligned Collagen Bioscaffolds. *J Biomed Mater Res Part B* 2011;00B:000-000.

Dhawn D, Craig BA, Cheng L, Snyder PW, Mohammed SI, Stewart JC, Zheng R, Loman RA, Foster RS, Knapp DW. Effects of short-term Celecoxib treatment in patients with invasive transitional cell carcinoma of the urinary bladder. *Molecular Cancer Therapeutics* 9(5):1371-7, 2010.

Adams SB, Moore GE, Elrashidy M, Mohamed A, Snyder PW. Effect of needle size and type, reuse of needles, insertion speed and removal of hair on contamination of joints with tissue debris and hair following arthrocentesis. *Veterinary Surgery* 39(6):667-73, 2010.

Xue Y, Johnson R, DeSmet M, Snyder PW, Fleet JC. Generation of a transgenic mouse for colorectal cancer research with intestinal cre-expression limited to the large intestine. *Molecular Cancer Research* 8(8):1095-104, 2010.

Freeman LJ, Rahmani EY, Al-Haddad M, Sherman S, Chiorean MV, Selzer DJ, Snyder PW, Constable PD. Comparison of pain and postoperative stress in dogs undergoing natural orifice transluminal endoscopic surgery (NOTES[®]), laparoscopic and open oophorectomy. *Gastrointestinal Endoscopy* 72(2):373-80, 2010.

Sharma, AK, Searfoss, GH, Reams, RY, Jordan, WH, Snyder, PW and Ryan, T.P Kainic Acid-induced F-344 Rat model of Mesial Temporal Lobe Epilepsy: Gene Expression and Canonical Pathways. *Toxicologic Pathology* 37:776-789, 2009.

Freeman LJ, Rahmani EY, Sherman S, Chiorean MV, Selzer DJ, Snyder PW. Oophorectomy via natural orifice transluminal endoscopic surgery (NOTES): Feasibility study in dogs. *Gastrointestinal Endoscopy* Jun; 69(7):1321-32, 2009.

Kader Y, Snyder PW, D.Morre JD, and Morre, DM. Size Increased in Tissues from Transgenic Mice Over expressing a Cell Surface Growth-Related and Cancer-Specific Hydroquinone

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Oxidase, tNOX, With Protein Disulfide-Thiol Interchange Activity. *Journal of Cell Biochemistry* Dec 15; 105(6):1437-1442, 2008.

Sharma AK, Jordan WH, Reams RY, Hall DG, and Snyder PW. Temporal profile of clinical signs and histopathologic changes in an F-344 rat model of Kainic acid-induced mesial temporal lobe epilepsy. *Toxicologic Pathology* 36(7):932-943, 2008.

Prasad NK, Tandon M, Handa A, Moore GE, Babbs CF, Snyder PW, Bose S. High expression of obesity-linked phosphatase SHIP2 in invasive breast cancers correlates with reduced disease-free survival. *Tumor Biology* 29(5): 330-341, 2008.

Prasad NK, Tandon M, Badve S, Snyder PW, Nakshatri, H. Phosphoinositol phosphatase SHIP2 promotes cancer development and metastasis coupled with alterations in EGF receptor turnover. *Carcinogenesis* 29(1):25-34, 2008.

Sharma AK, Reams RY, Jordan WH, Miller MA, Thacker HL, Snyder PW. Mesial temporal lobe epilepsy: A review of animal models, brain pathology, and pathogenic mechanisms. *Toxicologic Pathology* 35(2):984-99, 2007.

Lucas JN, Rudmann DG, Credille KM, Irizarry AR, Peter A, Snyder PW. The rat mammary gland: Morphologic changes as an indicator of systemic hormonal perturbations induced by novel xenobiotics. *Toxicologic Pathology* 35:199-207, 2007.

Jacobs T and Snyder PW. Mucinous cholangiocarcinoma in a cat. *Journal of the American Animal Hospital Association* May-Jun;43(3):168-72, 2007.

Morton D, Kemp R, Francke-Carroll S, Jensen K, McCartney J, Monticello T, Perry R, Peters T, Pulido O, Roome N, Schafer K, Sellers R, Snyder PW. Society of Toxicologic Pathology Position Paper Best Practices for Reporting Pathology Interpretations within GLP Toxicology Studies. *Toxicologic Pathology* 34(6):806-809, 2006.

Sharma AK, Schultze AE, Cooper DM, Reams RY, Jordan WH, Snyder PW. Validation of a cerebrospinal fluid collection technique in F-344 rats by evaluation of cell counts and total protein. *Toxicologic Pathology* 34(4):393-395, 2006.

Maratea K, Snyder PW, Stevenson GW. Spontaneous vascular lesions in 9 Göttingen minipigs with thrombocytopenic purpura syndrome. *Veterinary Pathology* 43:447-454, 2006.

Mohammed SI, Dawn D, Abraham S, Snyder PW, Waters DJ, Lu M, Wu L, Zheng R, Stewart J, Knapp D. Cyclooxygenase inhibitors on urinary bladder cancer: in vitro and in vivo effect. *Molecular Cancer Therapeutics* 5:329-36, 2006.

Abraham S, Knapp DW, Cheng L, Snyder PW, Mittal SK, Bangari DS, Kinch M, Wu L, Dhariwal J, Mohammed SI. Expression of EphA2 and Ephrin A-1 in transitional cell carcinoma of the urinary bladder. *Clinical Cancer Research* 12(2):353-60, 2006.

Boria PA, Glickman NW, Schmidt BR, Widmer WR, Mutsaers AJ, Adams LG, Snyder PW, DiBernardi L, de Gortari AE, Bonney PL, Knapp DW. Carboplatin and piroxicam therapy in 31

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dogs with transitional cell carcinoma of the urinary bladder. *Veterinary Comparative Oncology* 3 (2):73-80, 2005.

Klocke NW, Snyder PW, Widmer WR, Zhong W, McCabe G, and Breur GJ. Detection of synovial macrophages in the joint capsule of dogs with naturally-occurring rupture of the cranial cruciate ligament. *American Journal of Veterinary Research* 66:493-9, 2005.

Haley P, Perry R, Ennult D, Frame S, Johnson C, Lapointe JM, Nyska, A, Snyder P, Walker D, Walter G. STP Position Paper: Best Practice Guideline for the Routine Pathology Evaluation of the Immune System. *Toxicologic Pathology* 33:404-407, 2005.

Kerns W, Schwartz L, Burchiel K, Johnson R, Robertson D, Sistare F, Snyder PW, Thomas H, Wagner B. Drug-Induced Vascular Injury – A Quest for Biomarkers. *Toxicology and Applied Pharmacology* 203: 62-87, 2005.

Mutsaers AJ, Mohammed SI, DeNicola DB, Snyder PW, Glickman NW, Bennett PF, DeGortari AE, Bonney PL, Knapp DW. Pretreatment tumor prostaglandin E2 concentration and cyclooxygenase-2 expression are not associated with the response of canine naturally-occurring invasive urinary bladder cancer to cyclooxygenase inhibitor therapy. *Prostaglandins, Leukotrienes, and Essential Fatty Acids* 72:181-186, 2005.

Damo LA, Snyder PW, Franklin DS. Tumorigenesis in Kip1/p53-null and Ink4c/p53-null mice: Functional collaboration between the pRb and p53 tumor pathways. *Molecular Carcinogenesis* 42:109-120, 2005.

Schwartz JA, Aldridge BM, Lasley BL, Snyder PW, Stott JL, Mohr FC. Chronic fuel oil toxicity in american mink (*Mustela vison*) I. Systemic and hematological effects of ingestion of a low concentration of bunker C fuel oil. *Toxicology and Applied Pharmacology* 200:146-158, 2004.

Boria, PA, Murry, DJ, Bennett P, Glickman NW, Snyder PW, Merkel BL, Schlitter D, Mutsaers AJ, Thomas R, Knapp DW. Evaluation of cisplatin combined with piroxicam for the treatment of oral malignant melanoma and oral squamous cell carcinoma in dogs. *Journal of the American Veterinary Medical Association* 224:388-393, 2004.

Mathias CJ, Lewis MR, Reichert DE, Laforest R, Sharp TL, Yang Z, Waters, DJ, Snyder PW, Low PS, Welch MJ, Green MA. Preparation of ⁶⁶Ga- and ⁶⁶Ga-labeled Ga(III)-Deferoxamine-folate as potential folate-receptor-targeted PET radiopharmaceuticals. *Nuclear Medicine and Biology* 30:725-731, 2003.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Mohammed SI, Craig BA, Mutsaers AJ, Glickman NW, Snyder PW, deGortari AE, Schlittler DL, Coffman KT, Bonney PL, Knapp DW. Effects of cyclooxygenase inhibitor, piroxicam, in combination with chemotherapy on tumor response, apoptosis, and angiogenesis in a canine model of human invasive urinary bladder cancer. *Molecular Cancer Therapeutics* 2:183-8, 2003.

Philbert JC, Snyder PW, Glickman N, Glickman LT, Knapp DW, Waters DJ. Influence of host factors on survival in dogs with malignant mammary gland tumors. *Journal of Veterinary Internal Medicine* 17:102-6, 2003.

Carlson GP, Ulman M, Mantick NA, Snyder PW. 4-Vinylphenol-induced pneumotoxicity and hepatotoxicity in mice. *Toxicologic Pathology* 30:565-9, 2003.

Clemo FAS, Evering WE, Snyder PW, Albassam MA. Differentiating spontaneous from drug-induced vascular injury in the dog. *Toxicologic Pathology* 31: 25-31, 2003.

McNicholas WT, Wilkens BE, Blevins WE, Snyder PW, McCabe GP, Applewhite AA, Laverty PH, Breur GJ. Spontaneous femoral capital physial fractures in adult cats : 26 cases (1996-2001). *Journal of the American Veterinary Medical Association* 221:1731-1736, 2002.

Mohammed SI, Bennett PF, Craig BA, Glickman NW, Mutsaers AJ, Snyder PW, Widmer WR, DeGortari AE, Bonney PL, Knapp DW. Effects of the cyclooxygenase inhibitor, piroxicam, on tumor response, apoptosis, and angiogenesis in a canine model of human invasive urinary bladder cancer *Cancer Research* 62 (2): 356-358, 2002.

Suckow MA and Snyder PW. Cutaneous epitheliotropic discrete cell tumor in a tiger salamander (*Ambystoma tigrinum*). *Axolotl News* 29:10-11, 2001.

Syme HM, Scott-Moncrieff JC, Treadwell NG, Thompson MF, Snyder PW, White MR, Olover JW. Hyperadrenocorticism due to excessive sex hormone production by an adrenocortical tumor in two dogs. *Journal of the American Veterinary Medical Association*, Dec 15; 219 (12), 2001.

Ben-David M, Snyder PW, Kondratyuk, T, Stegeman, JJ. Induction of cytochrome P450 in captive river otters fed Prudoe Bay crude oil: evaluation by immunohistochemistry and quantitative RT-PCR. *Biomarkers* 6:218-235, 2001.

Rossmeisl JH, Scott-Moncrieff CR, Siems J, Snyder PW, Wells A, Anothayanontha L, Oliver JW. Hyperadrenocorticism and hyperprogesteronemia in a cat with an adrenocortical adenocarcinoma. *Journal of the American Veterinary Medical Association*, Nov-Dec;36, 512-7, 2000.

Walker-Daniels J, Coffman K, Azimi M, Rhim JS, Bostwick DG, Snyder PW, Kerns BJ, Waters, DJ, Kinch MS. Overexpression of the EphA2 tyrosine kinase in prostate cancer. *The Prostate* 41, 275-280, 1999.

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Mohammed SI, Knapp DW, Bostwick DG, Foster RS, Nasir K, Khan M, Masferrer JL, Woermer BM, Snyder PW, Koki AT. Expression of cyclooxygenase-2 in human invasive transitional cell carcinoma of the urinary bladder. *Cancer Research* 59, 5647-5650, 1999.

Kiupel M, Frank N, Stevenson G, Siems J, Snyder PW. Intrapelvic hemangiosarcoma in a horse. *Journal of Veterinary Diagnostic Investigation* 12, 91-95, 2000.

Reynolds JS, Troy TL, Mayer RH, Thompson AB, Waters DJ, Cornell KK, Snyder PW, Sevick-Muraca EM. Imaging of spontaneous canine mammary tumors using fluorescent contrast agents. *Photochemistry Photobiology* 70(1):87-94, Jul 1999.

Reagan WJ, Scott-Moncrieff MA, Christian J, Snyder PW, Kelly K, Glickman LT. The effects of human intravenous immunoglobulin on canine monocytes and lymphocytes. *American Journal of Veterinary Research* 59(12):1568-74, 1998 Dec.

Badylak SF, Kropp B, McPherson T, Liang A, Snyder PW: A resorbable bioscaffold for augmentation cystoplasty. *Tissue Engineering* 4, 379-387, 1998.

HogenEsch H, Azcona-Olivera J, Scott-Moncrieff JC, Snyder PW, Glickman LT. Vaccine induced autoimmunity in the dog. *Advances in Veterinary Medicine* 41, 733-747, 1999.

Scott-Moncrieff JC, Reagan WJ, Snyder PW, Glickman LT: Intravenous administration of human immune globulin in dogs with immune mediated hemolytic anemia. *Journal of the American Veterinary Medical Association* 1997, 210:1623-1627.

Waters CB, Adams LG, Scott-Moncrieff JC, DeNicola DB, Snyder PW, White MR, Gasparini M: Effects of chronic glucocorticoid therapy on urine protein to creatinine ratios and renal morphology in the dog. *Journal of Veterinary Internal Medicine* 1997, 11:172-177.

Knapp DW, Turek JJ, DeNicola DB, Chan TCK, Carter WO, Snyder PW, Robinson JP: Ultrastructure and cytochemical staining characteristics of canine natural killer cells. *The Anatomical Record* 1995, 243: 509-515.

HogenEsch H, Snyder PW, Scott-Moncrieff JC, Glickman LT, Felsburg PJ: Interleukin 6 activity in dogs with juvenile polyarteritis syndrome: Effect of corticosteroids. *Clinical Immunology Immunopathology* 1995, 77: 107-110.

Snyder PW, Kazacos EA, Scott-Moncrieff JC, HogenEsch H, Carlton WW, Glickman LT, Felsburg PJ: Pathologic features of naturally occurring juvenile polyarteritis in Beagle dogs. *Veterinary Pathology* 1995, 32: 337-345.

Snyder PW, Kazacos EA, Felsburg PJ: Histologic characterization of thymus in canine x-linked severe combined immunodeficiency. *Clinical Immunology and Immunopathology* 1993, 67: 55-67.

Felsburg PJ, HogenEsch H, Somberg RL, Snyder PW, Glickman LT: Immunologic abnormalities in canine juvenile polyarteritis syndrome: A natural animal model of Kawasaki disease. *Clinical Immunology Immunopathology* 1992, 65:110-118.

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Scott-Moncrieff JC, Snyder PW, Glickman LT, Felsburg PJ: Systemic necrotizing vasculitis in nine young laboratory Beagles. *Journal of the American Veterinary Medical Association* 1992, 201:1553-1558.

Burns JC, Felsburg PJ, Scott-Moncrieff C, Snyder PW, Rosen FS and Glickman LT: Canine Pain Syndrome. A model for the study of Kawasaki disease. *Perspectives in Biol Med* 1991, 35:68-73.

Grant GC, BeBeer MC, Lelias JM, Snyder PW, Glickman LT, Felsburg PJ, Whitehead SW: Dog serum amyloid A protein. *J Biol Chem* 1991, 6: 3505-3510.

ABSTRACTS:

Gurkan UA, Snyder PW, Freeman LJ, Akkus O. Enhancement of Large Open Wound Healing by Mechanically Actuable Wound Patch (MATCH). SAGES, Emerging Technologies, 2010.

Fleet JC, Xue Y, and Snyder PW. Generation of a Novel Colon-Specific Cre-Expressing Transgenic Mouse for Colon Cancer Research. AACR Annual meeting, April 18-22, 2009. Denver, CO.

Freeman LJ, Rahmani EY, Al-Haddad M, Sherman S, Chiorean MV, Selzer DJ, Constable PD, Snyder PW. Comparison of pain and postoperative stress in dogs undergoing natural orifice transluminal endoscopic surgery (NOTES), laparoscopic and open oophorectomy. DDW Annual meeting 2009.

Xue Y, Snyder PW, Fleet JC. Generation of a Novel Colon-Specific Cre-Expressing Transgenic Mouse for Colon Cancer Research. DDW Annual meeting 2009.

Fleet JC, Xue Y, Snyder PW. Generation of novel colon-specific Cre-expressing transgenic mouse model for colon cancer research. AACR Annual Meeting 2009.

Mahadevan B, Rianprakaisang T, LaRonge V, Ballachey B, Snyder PW, Baird WM. Lingering oil and sea otters: Detection of DNA adducts as a biomarker of PAH exposure. SOT Annual Meeting, 2007.

Lucas J, Snyder PW, Hooser S, Peter A, Rudmann D. Comparison of the mammary gland effects in the female rat of four selective estrogen receptor modulators and dihydrotestosterone. ACVP Annual Meeting, Phoenix, AZ, 2006.

Sharma A, Hall G, Reams R, Jordan W, Snyder PW. Temporal Profile of histologic changes in an F-344 rat model of kainic acid induced mesial temporal lobe epilepsy. STP Annual Meeting, Vancouver, BC, 2006.

Antuofermo E, Miller MA, Snyder PW, Pirino S, Badve S, Mohammed SI. Canine model for the study of intraepithelial lesions (IELs) associated with human breast cancer: Histopathological study. Am Assoc for Cancer Res, 96th Annual meeting proceedings, 1081, 2005.

Antuofermo E, Miller MA, Snyder PW, Pirino S, Badve S, Mohammed SI. Canine model for the study of intraepithelial lesions (IELs) associated with human breast cancer: Histopathological study. Era of Hope Proceedings, June 8-11, 267, 2005.

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Ballachey BE, Bodkin JL, Snyder PW. Cytochrome P4501A as a bioindicator of exposure of sea otters to residual Exxon Valdez oil. Oil Impacts Session of Annual EVOS meeting, Anchorage, AK, 2003.

Mutseurs A, Mohammed SI, DeNicola DB, Snyder PW, Bennet PF, Knapp DW. Cyclooxygenase-2 expression and prostaglandin E2 concentration in prediction of the response of urinary bladder cancer to cyclooxygenase inhibitor treatment. Proceedings of the American Association for Cancer Research 2002; 43:399

Mohammed SI, Bennett PF, Snyder PW, DeGortari AE, Schlittler D, Knapp DW. COX inhibitor induces apoptosis in canine model of invasive urinary bladder cancer. Association of Cancer Research 2001; 42; 363.

Breur GJ, Allen M, Lalor P, Aberman H, Snyder PW, Carlson SJ. Markers of bone resorption in a stable model of early periprosthetic osteolysis. 35th Scientific Meeting of the American College of Veterinary Surgeons, 2000, Washington, DC.

Mohammed SI, Snyder PW, DeGortari AE, Schlittler D, Knapp DW. Effects of the COX inhibitor, piroxicam, on apoptosis, angiogenesis, and PGE 2 concentration in invasive urinary bladder cancer. American Association of Cancer Research, April 2000, 41:270

Mutseurs A, Mohammed SI, DeNicola DB, Snyder PW, Bennet PF, Knapp. Cyclooxygenase-2 expression, prostaglandin E2 production and response to piroxicam in canine transitional cell carcinoma of the urinary bladder. Proceedings of the Veterinary Cancer Society 20th Annual Conference 2000; 57.

Ballachey BE, Snyder PW, Bodkin JL: Cytochrome P450 1A as a bioindicator of exposure of sea otters to polycyclic aromatic hydrocarbons from the Exxon Valdez oil spill. 21st Annual Meeting, Society of Environmental Toxicology and Chemistry, 2000, Nashville, TN.

Carlson S, Allen M, Lalor P, Snyder PW, Aberman H, Breur G. Biochemical markers of bone metabolism in a stable canine model of early periprosthetic osteolysis. Orthopaedic Research Society, 2000, Orlando, FL.

Ballachey BE, Bodkin JL, Esler D, Holland-Bartels L, Blundell GM, Bowyer RT, Dean TA, Jewett SC, Snyder PW, Stegeman, JJ, and Trust K. Quantification of cytochrome P4501A as a bioindicator of exposure to nearshore vertebrate predators to residual oil from the Exxon Valdez oil spill. 10th Annual Exxon Valdez Oil Spill Symposium, 1999, Anchorage, AK.

Ballachey BE, Bodkin JL and Snyder PW. Cytochrome P4501A as a bioindicator of exposure of sea otters to residual Exxon Valdez oil. 13th Biennial Conference, Society of Marine Mammalogy, 1999, Maui, HA.

Mohammed SI, Foster RS, Khan KN, Koki AT, Snyder PW, Knapp DW. Expression of cyclooxygenase (cox)-1 and cox-2 in human invasive transitional cell carcinoma of the urinary bladder. American Urologic Association, 1999, Dallas, TX.

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Mohammed SI, Khan KN, Koki AT, Snyder PW, Foster RS, Knapp DW. Expression of cyclooxygenase-2 in invasive transitional cell carcinoma of the urinary bladder in humans and dogs. AACR Annual Meeting, 1999, Philadelphia, PA.

Mohammed SI, Bennett PF, Snyder PW, DeGortari AE, Schlittler D, Knapp DW. COX inhibitor induces apoptosis in canine model of invasive urinary bladder cancer. Association of Cancer Research, March 2001, New Orleans, LA.

Carlson S, Allen M, Lalor P, Snyder PW, Aberman H, Breur G. Biochemical markers of bone metabolism in a stable canine model of early periprosthetic osteolysis. Orthopaedic Research Society, 2000, Orlando, FL.

Mohammed SI, Foster RS, Khan KN, Koki AT, Snyder PW, Knapp DW. Expression of cyclooxygenase (cox)-1 and cox-2 in human invasive transitional cell carcinoma of the urinary bladder. American Urologic Association, 1999, Dallas, TX.

Mohammed SI, Khan KN, Koki AT, Snyder PW, Foster RS, Knapp DW. Expression of cyclooxygenase-2 in invasive transitional cell carcinoma of the urinary bladder in humans and dogs. AACR Annual Meeting, 1999, Philadelphia, PA.

Snyder PW, Kondratyuk T, Vanden Heuvel JP. Sea otter (*Enhydra lutris*) cytochrome P450 1A gene expression in peripheral blood mononuclear cells as a biomarker of exposure to crude oil. Society of Toxicology, 1999, New Orleans, LA.

Snyder PW, Breur GJ, Aberman HM, Toombs JP, Blevins WE, Lalor PA. Synovial responses to particulate PMMA, CoCr and TiAlV alloy in a canine model of early aseptic loosening. Biomaterials 1999, Providence, RI.

Breur GJ, Aberman HM, Snyder PW, Toombs JP, Blevins WE, Lalor PA. PMMA particles in a stable canine model of aseptic implant loosening. 45th Annual Meeting, Orthopaedic Research Society, 1999, Anaheim, CA.

Lalor PA, Breur GJ, Snyder PW, Toombs JP, Blevins WE, Aberman HM. Early osteolysis in a stable canine model of aseptic implant loosening. 44th Annual Meeting, Orthopaedic Research Society, March 16-19, 1998, New Orleans, LA.

Azcona-Olivera JI, Scott-Moncrieff C, Glickman LT, Snyder PW, HogenEsch H. Vaccine induced serum anti-fibronectin antibodies in Beagle dogs. FASEB J, Vol. 4, 1998.

Breur GJ, Lalor PA, Snyder PW, Toombs JP, Blevins WE, Barlow DM, Grote LA, Carlson SJ. Osteolysis in a stable canine model of accelerated aseptic implant loosening. 33rd Annual Meeting of the American College of Veterinary Surgeons, 1998.

Toombs JP, Blevins WE, Breur GJ, Snyder PW, Lalor PA, Aberman HM: Bone formation and bone resorption in a canine model of accelerated aseptic implant loosening.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Azcona-Olivers J, HogenEsch H, Scott-Moncrieff C, Snyder PW, Glickman LT: Effect of vaccination on serum autoantibody repertoire in young Beagles. First International Veterinary Vaccines and Diagnostics Conference, July 27-31, 1997, Madison, WI. P89.

HogenEsch H, Azcona-Olivers J, Scott-Moncrieff C, Snyder PW, Glickman LT: Vaccination induced autoimmunity in the dog. First International Veterinary Vaccines and Diagnostics Conference, July 27-31, 1997, Madison, WI. S53.

Greenlee WF, Huska LJ, Snyder PW: Molecular basis for dioxin-dependent influences on development. Mechanisms of Developmental Toxicology: Altered Gene Expression. Annual Teratology Society Meeting, 1997.

Kondratyuk TP, Snyder PW, Nackman M, Greenlee WF: Inhibition of the invasion activity of human mammary tumor cells by 2,3,7,8 tetrachlorodibenzo-p-dioxin (TCDD). Proc Am Assoc Cancer Res 1996, 37: 85.

Snyder PW, Nackman M, Greenlee WF: Expression of the Ah receptor (AhR) and cytochrome P450 1B1 (CYP 1B1) in the developing thymus. Fundamental and Applied Toxicol 1996, 30: A1017.

Reagan WJ, Scott-Moncrieff JC, Snyder PW, Kelly K, Glickman LT: Action of human intravenous gamma globulin on the canine hematopoietic system. Blood 1994, 84: 662a.

HogenEsch H, Snyder PW, Scott-Moncrieff JC: Serum interleukin 6 and tumor necrosis factor activity in dogs with juvenile polyarteritis syndrome. Vet Path 1994, 31: 578.

Waters CB, Adams LG, Scott-Moncrieff JC, DeNicola DB, Snyder PW, White MR and Gasparini M: Effects of chronic glucocorticoid therapy on urine protein to creatinine ratios and renal morphology in the dog. J Vet Internal Med 1994, 8: 168.

Carter WO, Knapp DW, Snyder PW, Narayanan PK, Robinson JP: Oxidative burst-like activity in canine null cells. J Vet Internal Med 1994, 8: 188.

Felsburg PJ, HogenEsch H, Snyder PW, Glickman LT: Immunologic abnormalities in canine pain syndrome. A naturally occurring model of Kawasaki disease. FASEB J 1990, 4: A2256.

Snyder PW, Kazacos EA, Scott-Moncrieff JC, Carlton WW, Felsburg PJ, Glickman LT: Spontaneous necrotizing arteritis in the dog: An animal model of Kawasaki disease. FASEB J 1990, 4: A759.

BOOKS/BOOK CHAPTERS:

Snyder PW. (2011 5th Ed). Diseases of Immunity. In: Pathologic Basis of Veterinary Disease. Eds. McGavin and Zachary, Mosby Elsevier, St. Louis, MI.

Snyder PW. (2008, 4th Ed). Sjogren-like syndrome. In: The 5 minute Veterinary Consult. Eds. Tilley, LP, Smith, FWK Jr, Williams & Wilkins, Malvern PA. pp. 1268-1269.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Snyder PW. (2008, 4thEd). Immunodeficiency disorders, primary. In: The 5 minute Veterinary Consult. Eds. Tilley, LP, Smith, FWK Jr, Williams & Wilkins, Malvern PA. pp. 742-743.

Snyder PW . (2008, 4th Ed). Hypersensitivity reaction (anaphylaxis). In: The 5 minute Veterinary Consult. Eds. Tilley, LP, Smith, FWK Jr, Williams & Wilkins, Malvern, PA. pp. 68-69.

Snyder PW. (2007 4th Ed). Diseases of Immunity. In: Pathologic Basis of Veterinary Disease. Eds. McGavin and Zachary, Mosby Elsevier, St. Louis, MI.

Snyder PW. (2006, 3rd Ed). Sjogren's syndrome. In: The 5 minute Veterinary Consult. Eds. Tilley, LP, Smith, FWK Jr, Williams & Wilkins, Malvern, PA.

Snyder PW. (2006, 3rd Ed). Immunodeficiency disorders. In: The 5 minute Veterinary Consult. Eds. Tilley, LP, Smith, FWK Jr, Williams & Wilkins, Malvern, PA.

Snyder PW. (2006, 3rd Ed). Hypersensitivity reaction (anaphylaxis). In: The 5 minute Veterinary Consult. Eds. Tilley, LP, Smith, FWK Jr, Williams & Wilkins, Malvern, PA.

Stegelmeier BL, Snyder PW, James LF, Panter KE, Molyneux RJ, Gardner DR, Ralphs MH, Pfister (2002): The immunologic and toxic effects of chronic locoweed (*Astagalus lentiginosus*) intoxication in cattle. In: Toxic plants and other natural toxicants. Ed. Garland T, Barr AC, CAB International, Wallingford, Oxon, UK. pp 285-290.

Snyder PW. (2001). The thymus of the aging dog. In: ILSI Monographs on the Pathobiology of Aging Animals, Pathobiology of the Aging Dog: vol. 1. Eds. Mohr, Dungworth, Capen, Carlton, Benjamin, Hahn. ISU Press, Ames, IA. pp 120-126.

Snyder PW. (2000, 2nd Ed). Sjogren's syndrome. In: The 5 minute Veterinary Consult. Eds. Tilley, LP, Smith, FWK Jr, Williams & Wilkins, Malvern, PA. pp. 1198-1199.

Snyder PW . (2000, 2nd Ed). Immunodeficiency disorders. In: The 5 minute Veterinary Consult. Eds. Tilley, LP, Smith, FWK Jr, Williams & Wilkins, Malvern, PA. pp. 856-857.

Snyder PW. (2000, 2nd Ed). Hypersensitivity reaction (anaphylaxis). In: The 5 minute Veterinary Consult. Eds. Tilley, LP, Smith, FWK Jr, Williams & Wilkins, Malvern, PA. pp. 822-823.

Snyder PW. (1996). Sjogren's syndrome. In: The 5 minute Veterinary Consult. Eds. Tilley, LP, Smith, FWK Jr, Williams & Wilkins, Malvern PA. pp.1061.

Snyder PW. (1996). Immunodeficiency disorders. In: The 5 minute Veterinary Consult. Eds. Tilley, LP, Smith, FWK Jr, Williams & Wilkins, Malvern, PA. pp. 728-729.

Snyder PW. (1996). Hypersensitivity reaction (anaphylaxis). In: The 5 minute Veterinary Consult. Eds. Tilley, LP, Smith, FWK Jr, Williams & Wilkins, Malvern, PA. pp. 700-701.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Snyder PW, HogenEsch H. (1996). The immune system of the aging mouse. In: Pathobiology of the Aging Mouse. Eds. Mohr U, Dungworth, Capen, Carlton, Sundberg, Ward. ILSI Press, Washington DC. pp. 189-203.

PRESENTATIONS/POSTERS:

Midwest Association of Veterinary Pathologists "Thymic Hypoplasia in the SCID Dog", Marshall, IN, August 1992.

"Spontaneous necrotizing arteritis in the dog: An animal model of Kawasaki disease". Poster presentation at the April 1990 FASEB meeting, Washington, DC.

Midwest Association of Veterinary Pathologists "Encephalitozoon cuniculi in a Dwarf Rabbit", Marshall, IN, August 1988.

OTHER MAJOR REPORTS/ACTIVITIES:**REFEREED PROCEEDING AND REPORTS:**

Safety Assessment of synthetic fluorophlogopite as used in cosmetics. Becker LC, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2015 Nov;34(3 Suppl):43S-52S.

Safety Assessment of alkyl esters as used in cosmetics. Fiume MM, Heldreth BA, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2015 Sep;34(2 Suppl):5S-69S.

Safety Assessment of alkyl PEG sulfosuccinates as used in cosmetics. Johnson W Jr, Heldreth B, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2015 Sep;34(2 Suppl):70S-83S.

Safety Assessment of ethanolamine and ethanolamine salts as used in cosmetics. Fiume MM, Heldreth BA, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2015 Sep;34(2 Suppl):84S-98S.

Safety Assessment of pentaerythrityl tetraesters as used in cosmetics. Becker LC, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2015 Sep;34(2 Suppl):99S-112S. *Int J Toxicol.* 2015 Sep;34(2 Suppl):99S-112S.

Safety Assessment of ethanolamides as used in cosmetics. Fiume MM, Heldreth BA, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2015 Jul-Aug;34(1 Suppl):18S-34S.

Safety Assessment of galactomannans as used in cosmetics. Johnson W Jr, Heldreth B, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2015 Jul-Aug;34(1 Suppl):35S-65S.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Safety Assessment of dialkyl malates as used in cosmetics. Becker LC, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2015 Jul-Aug;34(1 Suppl):5S-17S.

Safety Assessment of talc as used in cosmetics. Fiume MM, Boyer I, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2015 Jul-Aug;34(1 Suppl):66S-129S.

Safety assessment of nylon as used in cosmetics. Burnett C, Heldreth B, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2014 Nov-Dec;33(4 Suppl):47S-60S.

Safety assessment of Tin(IV) oxide as used in cosmetics. Johnson W Jr, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2014 Nov-Dec;33(4 Suppl):40S-6S.

Safety assessment of animal - and plant-derived amino acids as used in cosmetics. Burnett C, Heldreth B, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2014 Nov-Dec;33(4 Suppl):5S-12S.

Amended safety assessment of Hypericum perforatum-derived ingredients as used in cosmetics. Becker LC, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2014 Sep-Oct;33(3 Suppl):5S-23S.

Safety assessment of vitis vinifera (grape)-derived ingredients as used in cosmetics. Fiume MM, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2014 Sep-Oct;33(3 Suppl):48S-83S.

Safety assessment of modified terephthalate polymers as used in cosmetics. Becker LC, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2014 Sept-Oct;33(3 Suppl):36S-47S.

Safety assessment of 6-hydroxyindole as used in cosmetics. Burnett CL, Heldreth B, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2014 Sep-Oct; 33(3 Suppl):24S-35S.

Safety Assessment of PEGylated oils as used in cosmetics. Burnett CL, Heldreth B, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2014 Nov-Dec;33(4 Suppl):13S-39S.

Safety Assessment of Dimethicone Crosspolymers as used in cosmetics. Becker LC, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2014 May 26;33(2 Suppl):65S-115S. [Epub ahead of print] PubMed PMID: 24861370.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Safety Assessment of chlorphesin in as used in cosmetics. Johnson W Jr, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2014 May 26;33(2 Suppl):5S-15S. [Epub ahead of print]PubMed PMID: 24861369.

Safety Assessment of cucumis sativus (cucumber)-derived ingredients as used in cosmetics. Fiume MM, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2014 May 26;33(2 Suppl):47S-64S. [Epub ahead of print] PubMed PMID: 24861368.

Safety Assessment of citric acid, inorganic citrate salts, and alkyl citrate esters as used in cosmetics. Fiume MM, Heldreth B, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2014 May 26;33(2 Suppl):16S-46S. [Epub ahead of print] PubMed PMID: 24861367.

Safety assessment of α -amino acids as used in cosmetics. Burnett CL1, Heldreth B, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2013 Nov-Dec;32(6 Suppl):41S-64S.

Amended safety assessment of formaldehyde and methylene glycol as used in cosmetics. Boyer IJ , Heldreth B, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2013 Nov-Dec;32(6 Suppl):5S-32S.

Safety assessment of ammonium hectorites as used in cosmetics. Becker LC, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2013 Nov-Dec;32(6 Suppl):33S-40s..

Safety assessment of alkyl glycerylethers as used in cosmetics. Johnson W Jr, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2013 Sept-Oct;32(5 Suppl):5S-21s.

Safety assessment of bis-dilycerylpolyacyladipate-2 and bi s-di glyceryl polyacyladipate-1 as used in cosmetics. Fiume MM, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2013 Sept-Oct;32(5 Suppl):56S-64S.

Safety assessment of lauriminodipropionic acid, sodium lauriminodipropionate, and disodium lauriminodipropionate as used in cosmetics. Burnett CL , Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ , Snyder PW, Andersen FA. *Int J Toxicol.* 2013 Sept-Oct;32 (5 Suppl):49S-55s.

Safety assessment of decyl glucoside and other alkyl glucosides as used in cosmetics. Fiume MM, Heldreth B, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2013 Sept-Oct;32(5 Suppl):22S-48s.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Safety assessment of silylates and surface-modified siloxysilicates. Becker LC, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol*. 2013 May-Jun;32(3 Suppl):5S-24S.

Safety assessment of triethanolamine and triethanolamine-containing ingredients as used in cosmetics. Fiume MM, Heldreth B, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol*. 2013 May-Jun;32(3 Suppl):59s-83s.

Safety assessment of diethanolamides as used in cosmetics. Fiume MM, Heldreth B, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol*. 2013 May-Jun;32(3 Suppl):36S-58S.

Safety assessment of 2-amino-4-hydroxyethylaminoanisole and 2-amino-4-hydroxyethylaminoanisole sulfate as used in cosmetics. Burnett CL, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. 2013 May-Jun;32(3 Suppl):25S-35s.

Safety assessment of 1,2-glycols as used in cosmetics. Johnson W Jr, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol*. 2012 Sep-Oct;31(5 Suppl):147S-68S.

Safety assessment of alkyl PEG ethers as used in cosmetics. Fiume MM, Heldreth B, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol*. 2012 Sep-Oct;31(5 Suppl):169S-244S.

Safety assessment of propylene glycol, tripropylene glycol, and PPGs as used in cosmetics. Fiume MM, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol*. 2012 Sep-Oct;31(5 Suppl):245S-60S.

Safety assessment of isoparaffins as used in cosmetics. Johnson W Jr, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol*. 2012 Nov;31(6 Suppl):269S-95S.

Safety assessment of trimoniums as used in cosmetics. Becker LC, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol*. 2012 Nov;31(6 Suppl):296S-341S.

Safety assessment of alkyl benzoates as used in cosmetics. Becker LC, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol*. 2012 Nov;31(6 Suppl):342S-72S.

Final report of the Cosmetic Ingredient Review Expert Panel on the safety assessment of dicarboxylic acids, salts, and esters. Fiume MM, Eldreth H, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol*. 2012 Jul-Aug;31(4 Suppl):5S-76S.

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Final report of the Cosmetic Ingredient Review Expert Panel on the safety assessment of cocamidopropyl betaine (CAPB). Burnett CL, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2012 Jul-Aug;31(4 Suppl):77S-111S.

Safety assessment of stearyl heptanoate and related stearyl alkanooates as used in cosmetics. Fiume MM, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2012 Sep;31(5 Suppl):141S-6S.

Safety assessment of 1,2-glycols as used in cosmetics. Johnson W Jr, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2012 Sep;31(5 Suppl):147S-68S.

Safety assessment of alkyl PEG ethers as used in cosmetics. Fiume MM, Heldreth B, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2012 Sep;31(5 Suppl):169S-244S.

Safety Assessment of Propylene Glycol, Tripropylene Glycol, and PPGs as Used in Cosmetics. Fiume MM, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2012 Sep;30(5 Suppl):245S-60S.

Safety assessment of xylene sulfonic acid, toluene sulfonic acid, and alkyl aryl sulfonate hydrotropes as used in cosmetics. Bergfeld WF, Belsito DV, Klaassen CD, Hill R, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2011 Dec;30(6 Suppl):270S-83S.

Final report of the Cosmetic Ingredient Review Expert Panel on the safety assessment of pelargonic acid (nonanoic acid) and nonanoate esters. Johnson W Jr, Heldreth B, Bergfeld WF, Belsito DV, Klaassen CD, Hill R, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2011 Dec;30(6 Suppl):228S-69S.

Safety assessment of cyclomethicone, cyclotetrasiloxane, cyclopentasiloxane, cyclohexasiloxane, and cycloheptasiloxane. Johnson W Jr, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2011 Dec;30(6 Suppl):149S-227S.

Final report of the Amended Safety Assessment of PVM/MA copolymer and its related salts and esters as used in cosmetics. Burnett CL, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2011 Oct;30(5 Suppl):128S-44S.

Safety assessment of xylene sulfonic Acid, toluene sulfonic Acid, and alkyl aryl sulfonate hydrotropes as used in cosmetics. Bergfeld WF, Belsito DV, Klaassen CD, Hill R, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2011 Dec;30(6 Suppl):270S-83S.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Final report of the cosmetic ingredient review expert panel on the safety assessment of pelargonic Acid (nonanoic Acid) and nonanoate esters. Johnson W Jr, Heldreth AB, Bergfeld WF, Belsito DV, Klaassen CD, Hill R, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2011 Dec;30(6 Suppl):228S-69S.

Final report of the cosmetic ingredient review expert panel on the safety assessment of pelargonic Acid (nonanoic Acid) and nonanoate esters. Johnson W Jr, Heldreth AB, Bergfeld WF, Belsito DV, Klaassen CD, Hill R, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2011 Dec;30(6 Suppl):228S-69S.

Safety assessment of cyclomethicone, cyclotetrasiloxane, cyclopentasiloxane, cyclohexasiloxane, and cycloheptasiloxane. Johnson W Jr, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2011 Dec;30(6 Suppl):149S-227S.

Final Report of the Cosmetic Ingredient Review Expert Panel Safety Assessment of Polymethyl Methacrylate (PMMA), Methyl Methacrylate Crosspolymer, and Methyl Methacrylate/Glycol Dimethacrylate Crosspolymer. Becker LC, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2011 May;30(3 Suppl):54S-65S.

Amended safety assessment of sesamum indicum (sesame) seed oil, hydrogenated sesame seed oil, sesamum indicum (sesame) oil unsaponifiables, and sodium sesame seedate. Johnson W Jr, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2011 May;30(3 Suppl):40S-53S.

Final report of the safety assessment of cosmetic ingredients derived from zea mays (corn). Andersen FA, Bergfeld WF, Belsito DV, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW. *Int J Toxicol.* 2011 May;30(3 Suppl):17S-39S.

Final Report on the Safety Assessment of Cocos nucifera (Coconut) Oil and Related Ingredients. Burnett CL, Bergfeld WF, Belsito DV, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2011 May;30(3 Suppl):5S-16S.

Amended safety assessment of dodecylbenzenesulfonate, decylbenzenesulfonate, and tridecylbenzenesulfonate salts as used in cosmetics. Becker LC, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2010 Nov-Dec;29(6 Suppl):288S-305.

Final amended safety assessment of hydroquinone as used in cosmetics. Andersen FA, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW. *Int J Toxicol.* 2010 Nov-Dec;29(6 Suppl):274S-87.

Final report of the safety assessment of Kojic acid as used in cosmetics. Burnett CL, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Andersen FA. *Int J Toxicol.* 2010 Nov-Dec;29(6 Suppl):244S-73.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Final report of the Cosmetic Ingredient Review Expert Panel amended safety assessment of *Calendula officinalis*-derived cosmetic ingredients. Andersen FA, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW. *Int J Toxicol.* 2010 Nov-Dec;29(6 Suppl):221S-43.

Final report of the safety assessment of methylisothiazolinone. Burnett CL, Bergfeld WF, Belsito DV, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Alan Andersen F. *Int J Toxicol.* 2010 Jul;29(4 Suppl):187S-213S.

Final report of the amended safety assessment of myristic acid and its salts and esters as used in cosmetics. Becker LC, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Alan Andersen F. *Int J Toxicol.* 2010 Jul;29(4 Suppl):162S-86S.

Final report of the amended safety assessment of sodium laureth sulfate and related salts of sulfated ethoxylated alcohols. Robinson VC, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Alan Andersen F. *Int J Toxicol.* 2010 Jul;29(4 Suppl):151S-61S.

Final safety assessment of thiodipropionic acid and its dialkyl esters as used in cosmetics. Diamante C, Fiume MZ, Bergfeld WF, Belsito DV, Hill RA, Klaassen CD, Liebler DC, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Alan Andersen F. *Int J Toxicol.* 2010 Jul;29(4 Suppl):137S-50S.

Final amended report of the safety assessment of toluene-2,5-diamine, toluene-2,5-diamine sulfate, and toluene-3,4-diamine as used in cosmetics. Burnett CL, Bergfeld WF, Belsito DV, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Alan Andersen F. *International Journal of Toxicology*, 2010 May;29(3 Suppl):61S-83S.

Final report of the safety assessment of allantoin and its related complexes. Becker LC, Bergfeld WF, Belsito DV, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Alan Andersen F. *International Journal of Toxicology*, 2010 May;29(3 Suppl):84S-97S.

Final report of the amended safety assessment of Quaternium-15 as used in cosmetics. Becker LC, Bergfeld WF, Belsito DV, Klaassen CD, Hill R, Liebler D, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Alan Andersen F. *International Journal of Toxicology*, 2010 May;29(3 Suppl):98S-114S.

Final report on the safety assessment of sodium cetearyl sulfate and related alkyl sulfates as used in cosmetics. Fiume M, Bergfeld WF, Belsito DV, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Alan Andersen F. *International Journal of Toxicology*, 2010 May;29(3 Suppl):115S-32S.

Final report on the safety assessment of Basic Violet 1, Basic Violet 3, and Basic Violet 4. Diamante C, Bergfeld WF, Belsito DV, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Alan Andersen F. *International Journal of Toxicology*, 2009 Nov-Dec;28(6 Suppl 2):193S-204S.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Amended safety assessment of sodium picramate and picramic acid. Becker LC, Bergfeld WF, Belsito DV, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Alan Andersen F. International Journal of Toxicology, 2009 Nov-Dec;28(6 Suppl 2):205S-16S.

Final report on the safety assessment of amino nitrophenols as used in hair dyes. Burnett CL, Bergfeld WF, Belsito DV, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Alan Andersen F. International Journal of Toxicology, 2009 Nov-Dec;28(6 Suppl 2):217S-51S.

Amended safety assessment of tall oil acid, sodium tallate, potassium tallate, and ammonium tallate. Robinson V, Bergfeld WF, Belsito DV, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW, Alan Andersen F. International Journal of Toxicology, 2009 Nov-Dec;28(6 Suppl 2):252S-8S.

Final report on the safety assessment of Piper methysticum leaf/root/stem extract and Piper methysticum root extract. Robinson V, Bergfeld WF, Belsito DV, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW; Cosmetic Ingredient Review Expert Panel, Andersen FA. International Journal of Toxicology, 2009 Nov-Dec;28(6 Suppl):175S-88S.

Final Report on the safety assessment of PPG-2 methyl ether, PPG-3 methyl ether, and PPG-2 methyl ether acetate. Robinson V, Bergfeld WF, Belsito DV, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW; Cosmetic Ingredient Review Expert Panel, Alan Andersen F. International Journal of Toxicology, 2009 Nov-Dec;28(6 Suppl):162S-74S.

Final amended report on safety assessment on aminomethyl propanol and aminomethyl propanediol. Burnett CL, Bergfeld WF, Belsito DV, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW; Cosmetic Ingredient Review Expert Panel, Alan Andersen F. International Journal of Toxicology, 2009 Nov-Dec;28(6 Suppl):141S-61S.

Final amended report on the safety assessment of Ammonium Thioglycolate, Butyl Thioglycolate, Calcium Thioglycolate, Ethanolamine Thioglycolate, Ethyl Thioglycolate, Glycerol Thioglycolate, Isooctyl Thioglycolate, Isopropyl Thioglycolate, Magnesium Thioglycolate, Methyl Thioglycolate, Potassium Thioglycolate, Sodium Thioglycolate, and Thioglycolic Acid. Burnett CL, Bergfeld WF, Belsito DV, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW; Cosmetic Ingredient Review Expert Panel, Andersen FA. International Journal of Toxicology, 2009 Jul-Aug;28(4 Suppl):68-133.

Final report of the safety assessment of hyaluronic acid, potassium hyaluronate, and sodium hyaluronate. Becker LC, Bergfeld WF, Belsito DV, Klaassen CD, Marks JG Jr, Shank RC, Slaga TJ, Snyder PW; Cosmetic Ingredient Review Expert Panel, Andersen FA. International Journal of Toxicology, 2009 Jul-Aug;28(4 Suppl):5-67.

Safety Assessments of Cosmetic Ingredients published in the International Journal of Toxicology, Volumes 19-24, 2000- 2008.

Drug-Induced Vascular Injury-Search for Biomarkers: The Expert Working Group on Drug-Induced Vascular Injury, March 6, 2003. FDA White Paper.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Ballachey BE, Stegeman JJ, Snyder PW, Blundell GM, Bodkin JL, Dean TA, Duffy L, Esler D, Golet G, Jewett S, Holland-Bartels, Rebar AH, Seiser PA, and Trust KA. (2002) Oil exposure and health of nearshore vertebrate predators in Prince William Sound following the Exxon Valdez oil spill. Chapter 2 in Holland-Bartels, LE, editor. Mechanisms of impact and potential recovery of nearshore vertebrate predators following the 1989 Exxon Valdez oil spill, Vol. 1 Exxon Valdez Oil Spill Restoration Project Final Report (project 99025), US Geological Survey, Alaska Biological Science Center, Anchorage, Alaska.

Snyder PW, Kondratuck T, Ballachey BE and Vanden Heuvel J. (2002). CYP1A1 gene expression in sea otters (*Enhydra lutris*): A quantitative reverse transcriptase polymerase chain reaction to measure CYP1A1 mRNA in peripheral blood mononuclear cells. Appendix Bio-2 in Holland-Bartels, LE, editor. Mechanisms of impact and potential recovery of nearshore vertebrate predators following the 1989 Exxon Valdez oil spill, Vol. 2 Exxon Valdez Oil Spill Restoration Project Final Report (project 99025), US Geological Survey, Alaska Biological Science Center, Anchorage, Alaska.

Ballachey BE, Bodkin JL, Howlin S, Kloecker KA, Monson DH, Rebar AH and Snyder PW. Hematology and serum chemistry of sea otters in oiled and unoled areas of Prince William Sound, Alaska, 1996-1998. Appendix BIO-01 In L. Holland-Bartells, editor. Mechanism of Impact and Potential Recovery of Nearshore Vertebrate Predators following the 1989 Exxon Valdez Oil Spill. Exxon Valdez Oil Spill Trustee Council Restoration Project Final Report, U. S. Geological Survey, Anchorage AK.

Ballachey B, Bodkin J, Bowyer T, Dean T, Duffy L, Esler D, Jewett S, McDonald L, McGuire D, O'Clair C, Rebar A, Snyder PW, VanBlaricom G: Mechanism of Impact and Potential Recovery of Nearshore Vertebrate Predators. Restoration Project 97025, 1995, 1996, 1997, and 1998 Refereed Annual Reports.

Greenlee WF, Snyder PW: TCDD-Dependent regulation of thymus development. Proceedings of the 4th International Expert Forum on Immunotherapy 1994.

Invited Speaker:

"Differentiating Stress from Immunotoxicity", 2012 Annual ACT Symposium, Orlando Florida, November 4-8, 2012.

"Stress and the Immune System". May 24, 2012, FDA Workshop on Stress in Toxicology Studies, Silver Springs, MD.

"Immunology". 4th Annual General Pathology Course, CL Davis Foundation, St. Pete Island, FL, July 13-18, 2011, 10 hours of lecture.

"Differentiating Immunotoxicity from Stress", 2011 Annual STP Symposium, Denver, Colorado, June 19-23, 2011.

"Immunology for the Toxicologist", 2011 Annual STP Symposium, Denver, Colorado, June 19-23, 2011.

"Renal Models of Nephropathy". Covance, Greenfield, IN, November 4, 2010.

"Immunology". 3rd Annual General Pathology Course, CL Davis Foundation, St. Pete Island, FL, July 12-19, 2010, 10 hours of lecture.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

“Background findings in Pre-Clinical Safety Assessments”. American College of Toxicology annual meeting, Baltimore, MD, November 7-11, 2010.

“Immunotoxicology”. University of Illinois, 3 hours of lecture, March 15, 2010.

“Immunology”. 2nd Annual General Pathology Course, CL Davis Foundation, St. Pete Island, FL, July 6-10, 2009, 10 hours of lecture.

“Stress and the Immune response”. Annual Society of Toxicology meeting, Baltimore, MD, March 18-23, 2009.

“Immunotoxicology”. Annual meeting of the India, Society of Toxicologic Pathology, Bangalore, India, October 23-25, 2008.

“Immunology”. 1st Annual General Pathology Course, CL Davis Foundation, St. Pete Island, FL, July 7-11, 2008, 11 hours of lecture.

“Immunotoxicology”. 7th Annual Industrial Toxicology and Pathology Short Course. Champaign, IL, July 23-25, 2007.

“Enhanced nomenclature of the Immune System”. Society of Toxicologic Pathology’s 25th Annual Symposium, Vancouver British Columbia, Canada, June 18-22, 2006.

Summit on Vasculitis. National Academy of Science, American Registry of Pathology and Armed Forces Institute of Pathology, Washington DC, December 1-3, 2004.

“Biomarkers of vasculitis: major issues”. Eli Lilly, Greenfield, IN, January 2004.

“Spontaneous vasculitis in the Beagle dog: An enigma”. Eli Lilly, Greenfield, IN, January 2004.

“Effects of residual oil as a long-term factor constraining recovery of injured sea otters following the 1989 Exxon Valdez oil spill”. Department of Agronomy at Purdue University Fall 2003 Departmental Seminar Series. October 2004.

“Spontaneous vasculitis in the Beagle dog”. Symposium on vasculitis sponsored by CL Davis Foundation and Hoffmann-LaRoche, Nutley, NJ. December 2003.

Purdue President’s Council Back to Class talk in 2000 on the Tenth Anniversary of the Exxon Valdez Oil Spill- The Sea Otters Story 2001.

“Studies on the EXXON VALDEZ oil spill”. Interview for Pet weekly program, April 1998.

“Canine Juvenile Polyarteritis (Beagle Pain) Syndrome”. Pfizer Inc., Groton, CT, February 1998.

“Effects of the Exxon Valdez oil spill on Alaskan sea otter: overview and current studies” ACVP 48th Annual Meeting November 1997, Albuquerque, NM.

“Veterinary Immunology” West Central Veterinary Medical Association, September 1997, Covington, IN.

“Nutrients and the immune system” Consolidated Nutrition, L.C. August 1996, Fort Wayne, IN.

“Swine immunology”. Consolidated Nutrition, L.C. August 1996, Fort Wayne, IN.

“Basic Immunology: Current concepts and potential interactions with plant toxins”. USDA-ARS Poisonous Plant Research Laboratory, Logan, Utah, March 1996.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

"Juvenile polyarteritis syndrome in the Beagle dog" Parke-Davis Research Institute, March 1996, Mississauga, Ontario, Canada.

"Immunology for the practitioner" Oral presentation to Indiana Equine practitioners. 1993 meeting, Lafayette, IN.

"Pathologic features of spontaneous vasculitis and perivasculitis in young Beagle dogs with canine pain syndrome." Oral presentation at the annual 1992 ACVP meeting, Orlando, Florida.

Research Grants and Awards**From External Sources:**

PHS-NIH National Cancer Institute. Initiation and Regulation of Chronic Autoimmune Prostate Inflammation. \$343,736, 2012-2013. Co-PI (5% FTE).

PHS-NIH National Cancer Institute. The Role of A Novel Vitamin E Metabolite in Colon Cancer Prevention and Therapy. \$368,445, 2011-2013. Co-PI (5% FTE).

PHS-NIH National Cancer Institute. Challenges to Vocal Fold Epithelia: Functional and structural Consequences. \$393,589, 2012-2013. Co-PI (7% FTE).

PHS-NIH National Cancer Institute. Inducible Colon-specific Transgenic Mouse for Cancer Research. \$162,728, 2011-2013. Co-PI (5% FTE).

PHS-NIH National Cancer Institute. Inflammation and Prostate Cancer Development and Progression. \$371,181, 2010-2013. Co-PI (5% FTE).

PHS-NIH National Cancer Institute. Cancer Center Core Grant, pathology support. 2012-2015. Co-PI (5% FTE).

PHS-NIH National Cancer Institute. Cancer Center Core Grant, pathology support. 2009-2012. Co-PI (5% FTE).

American Institute for Cancer Research. Does Vitamin D status modulate colon cancer driven by APC allele loss? \$165,000. 1/1/2010-12/31/2011. Co-PI (5%FTE).

Core Facility Seed Grant- CTSI Grant. Histology support for PHPL. \$6129. 2009-2010. Co-PI (100%).

NIH R21. Gamma-tocopherol and gamma-tocotrienol as anticancer agents for prostate cancer. 2009-2010. Co-PI (5% FTE).

Abbott Laboratories. Pathology Research Fellowship in support of Robert Johnson's PhD. \$174,000. PI (100%).

PHS-NIH National Cancer Institute. Cancer Center Core Grant, pathology support. 2008-2009. Co-PI (10% FTE).

Exxon Valdez Oil Spill Trustee Council/Analysis of CYP1A of sea otters. \$12,000. 2008-2010. PI (100%).



PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Eli Lilly and Company. Pathology PhD Fellowship in support of Kim Maratea's PhD. \$18,677. 2005-2008. PI (100%).

NIH. Colon Specific Transgenic Mouse for Cancer Research. \$152,000. 2007-2009. Co-PI.

Eli Lilly and Company. Valvulopathy project in support of Kim Maratea's PhD. \$30,000. 2007-2008. PI (100%).

PHS-NIH National Cancer Institute/Cancer center transgenic mouse facility, pathology support. 2007-2008. Co-PI (10% FTE),

Zimmer. Fate of conditioned chondrocytic xenograft in caprine articular cartilage. \$16,912. 2006-2007. PI (100%).

Eli Lilly and Company/Valvulopathy project in support of Kim Maratea's PhD. \$10,000. 2006-2007. PI (100%).

PHS-NIH National Cancer Institute. Cancer center transgenic mouse facility, pathology support. 2006-2007. Co-PI (10% FTE).

Exxon Valdez Oil Spill Trustee Council. Analysis of CYP1A of sea otters. \$6,204. 2006-2007. PI (100%).

DNA adduct analysis in PBMC of Sea Otters. \$6,202. 2005-2006. PI (100%).
Chemopreventative agents on MNU-induced rat mammary tumors. \$6,000. 2006-2007. PI (100%)

DNA adduct analysis in PBMC of Sea Otters. \$9,000. 2005-2006. Co-Investigator.

Exxon Valdez Oil Spill Trustee Council. Analysis of CYP1A of sea otters. \$32,232. 2005-2006. PI (100%).

Exxon Valdez Oil Spill Trustee Council. Analysis of CYP1A of sea otters. \$16,286. 2004-2005. PI (100%).

Department of Defense. Proposal for Dog Model of Breast Cancer. \$10,000. 2004-2005. Co-Investigator.

Purdue Cancer Center. Carcinogenic risk of commonly used lawn chemicals to children and dogs: an interdisciplinary assessment. \$25,000. 2004-2005. Co-Investigator.

Cook Biotech Inc. Immune responses to extracellular matrix biomaterials. \$52,777. 2004-2005. PI (100%).

Cook Biotech Inc. Role of innate immunity in SIS-directed tissue repair. \$23,568. 2003-2004. PI (100%).

PHS-NIH National Cancer Institute. Cancer center transgenic mouse facility, pathology support. \$9,666. 2003-2004. Co-PI.



PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Exxon Valdez Oil Spill Trustee Council. Analysis of CYP1A of sea otters. \$9,573. 2003-2004. PI (100%).

Exxon Valdez Oil Spill Trustee Council. Analysis of CYP1A of sea otters. \$20,850. 2002-2003. PI (100%).

USGS. Analysis of p450 in the blood and liver of sea otters captured in Washington. \$1875. 2001-2002. PI (100%).

Pfizer Inc. Identification of biomarkers of spontaneous and compound induced vasculitis in the Beagle dog. \$50,000. 2001-2003. PI (100%).

Exxon Valdez Oil Spill Trustee Council. Comparison of CYP 1A induction in blood and liver cells of sea otters. \$19,900. 2001-2001. PI (100%).

Pharmacia Fine Chemicals. Anti-tumor activity of celecoxib and celecoxib/cisplatin in invasive urinary bladder cancer. \$42,277. 2000-2001. Co-Investigator.

Oiled Wildlife Care Network/Evaluation of CYP 1A in Monterey Bay sea otters. \$12,000. 2000-2001. PI (100%).

PHS-NIH National Cancer Institute. EphA2: A marker of breast cancer progression. \$112,000. 2000-2001. Co-Investigator.

NeuColl Inc. Effect of multiple intraarticular injections of a novel visco supplemental device in the adult canine stifle. \$90,000. 1999-2001. Co-PI (15%).

IAMS Company. Aging and chemoprevention research initiative. \$1,077,930. 1999-2003. Co-PI (10% FTE).

National Cancer Institute. Cancer center support grant, pathology support. \$4,794,416. 1999-2004. Co-PI (10% FTE).

US Fish and Wildlife Service. CYP 1A measurement in Mallard ducks. \$1500. 1998-2000. PI (100%).

Morris Animal Foundation. Mechanism of synergistic anti-tumor activity of piroxicam and cisplatin in canine cancer. \$59,000. 1998-2000. Co-PI (5%).

Morris Animal Foundation. Phase I/II clinical trial of cisplatin/piroxicam in canine oral cancer. \$105,408. 1998-2000. Co-PI (10%).

Exxon Valdez Oil Spill Trustee Council. Response of river otters to oil contamination. \$270,000. 1998-1999. Co-PI (20%).

Howmedica Inc. An investigation of the fate and effect of particulate PVA injected into the intervertebral space of canines. \$65,156. 1997-1998. C-PI (15%).

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Hayward Genetic Foundation. Response of the canine immune system and endocrine system to repeated challenge with vaccine antigens. \$286,862. 1996-1998. Co-Investigator.

Exxon Valdez Oil Spill Trustees Council. Biomarkers of damage to sea otters in Prince William Sound Alaska. \$90,000. 1995-1999. Co-PI (100%).

USDA-ARS. The immunologic effects of chronic locoweed intoxication. \$23,000. 1995-1999. PI (100%).

National Institutes of Health. RFA, ES-94-003/TCDD-dependent regulation of thymus development. \$495,000. 1994-1997. Co-PI (35%).

Hayward Genetic Foundation. Response of the canine immune system and endocrine system to repeated challenge with vaccine antigens. \$76,000. 1995-1996. Co-PI (10%).

Howmedica Inc. Biocompatibility of periimplant particulates. \$4,992. 1995-1996. Co-PI (100%).

University of Mass. Medical Center & American Forest and Paper Association. Influence of TCDD on human mammary tumor invasive activity. \$35,000. 1995-1996. PI (100%).

Indiana Elks. Dioxin-dependent regulation of plasminogen activator inhibitor-2 in human mammary epithelial cells: a possible role in regulation of mammary tumor development and metastasis. \$10,000. 1994-1995. PI (100%).

American Forest and Paper Association. Development of a biological basis for dioxin risk assessment in humans. \$461,000. 1993-1994. Co-PI (25%).

American Animal Hospital Association. Treatment of Immune mediated hemolytic anemia in dogs with human intravenous immune globulin. \$10,000. 1993-1994. Co-PI (20%).

From Internal Sources:

WR Reagan (PI) PW Snyder and C Scott-Moncrieff. "Mechanisms of action of intravenous immunoglobulin and corticosteroids in the treatment of canine immune mediated hemolytic anemia." SVM, canine disease subdivision, \$44,800.

PW Snyder (Co-PI) and R Kreisle. "Detection of antibody-endothelial cell interactions in juvenile polyarteritis syndrome of dogs." SVM, canine disease subdivision, July 1993 through June 1995, \$14,200.

H HogenEsch (PI) JL Morrow-Tesch, PW Snyder, TL Bowersock. "Effect of the environment on behavior and the systemic and mucosal immune response in calves. SVM Internal Competitive Grant, Hatch Funds. July 1995-June 1996, \$4,400.

H HogenEsch (PI), J Turek, D Knapp, PW Snyder. Packard TopCount Scintillation counter. Internal Equipment Grant, \$46,320, 1996.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

C Scott-Moncrieff, H HogenEsch, LT Glickman, PW Snyder. Vaccine induced autoimmunity in dogs: Possible clinical applications. SVM, canine disease subdivision, July 1996 through June 1997, \$14,200.

M Saeed, PW Snyder, J Christian. Research program area: clinical pathology, immunopathology, microbiology. Centrifuge, \$19,800 form SVM Internal Competitive Research Funds for Equipment.

McClure S, Breur G, Glickman LT and Snyder PW. "Use of markers of bone metabolism to detect race horses at increased risk of fatal musculoskeletal injuries". SVM Competitive Equine Research Program. 1999 – 2001, \$12,795.

Breur G and Snyder PW. "Targeting of imaging and therapeutic agents to activated macrophages-osteoarthritis". Agriculture Animal and Small Animal Disease Research Funds. 2009-2010, \$10,500.

Companies of Consultation and Collaboration:

Pfizer, Groton, CT. Pathology consultation.

Parke-Davis, Mississauga, Ontario. Pathology consultation.

Marshall Farms, North Rose, NY. Pathology and immunology consultation.

Howmedica, Rutherford, NJ. Pathology and immunology consultation.

Roche Biosciences, Palo Alto, CA. Pathology consultation.

Consultants in Veterinary Pathology, West Lafayette, IN. Pathology services.

Eli Lilly, Greenfield, IN. Pathology consultation.

Teva Pharmaceutical, Netanya, Israel, Pathology and Immunology consultation.

Active Biotech Research AB, Scheelevagen, Lund, Sweden, Pathology and Immunology consultation.

Serono International S.A., Geneva, Switzerland, Pathology and Immunology consultation.

Ourboros Inc, San Diego, CA, Pathology consultation.

DuPont, Newark, DE, Immunology and Pathology consultation.

Amgen, Thousand Oak, CA. Immunology and Pathology consultation.

Metabasis, LaJolla, CA, Pathology consultation.

Cytochroma, Markham, Ontario, Canada, Pathology consultation.

Pioneer Surgical, Marquette, MI, pathology consultation.

Merck, Geneva, Switzerland, pathology and immunology consultation.

Cook Medical, West Lafayette, IN, pathology and immunology consultation.

Therapure, Mississauga, ON, Canada, pathology and immunology consultation.

SOLX, Boston MA, pathology consultation.

Other Evidence of National Recognition:

Associate Editor, Toxicologic Pathology Journal, 2012 – Present.

Member of HESI panel "Toxicity Testing in the 21st Century, Raleigh, NC, May 10-11, 2011.

Chair of continuing education course, 2011 ACT meeting. Stress effects. November 15, 2011.

Member of Society of Toxicology, Scientific Liaison Advisor Group/Scientific Liaison Coalition. 2010 - Present.

Chair of Stress Effects on Immune System session of 2011 STP annual meeting, Denver, CO.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Member of Society of Toxicology Human Health and Disease Prevention Summit, committee, 2010 – Present.

Co-Chair of Innate Immunity session of 2011 STP annual meeting, Denver, Colorado.

Member of STP 2011 Symposium committee (Susan Elmore and Jerry Ward co-chairs).

Member of INHAND cardiovascular nomenclature committee, 2007 – Present.

Member of the Society of Toxicologic Pathology, Joint Regulatory Advisory Committee, 2007 - Present.

Member of Society of Toxicologic Pathology executive committee, 2008 - 2012.

Member of numerous pathology working groups, 2000 - Present.

Member of the STP Working Group: Effects of Stress/Moribundity on Pathologic Endpoints, 2007 - Present.

Member of the cardiovascular nomenclature committee, Society of Toxicologic Pathology, 2006-Present.

Co-chair of 2006 Society of Toxicologic Pathology session on assessment of immunotoxicity, 25th Annual Symposium, Vancouver British Columbia, Canada.

Member of the Society of Toxicologic Pathology, Scientific and Regulatory Policy Committee, 2005 - Present.

Member of the Environmental Protection Agency, Federal Insecticide, Fungicide and Rodenticide Act, Scientific Advisory Panel, 2005.

Member of Society of Toxicologic Pathology Working Group on Immunotoxicology, May 2004 – 2005.

Member of Vasculitis Summit, Washington DC, December 1-3, 2004.

Editorial board of Toxicologic Pathology, 2004 – 2006.

Member of STP Immunotoxicology Committee, May 2004 - Present.

Member of FDA Non-clinical Studies Section Vasculitis Expert Working Group, May 2001-2004.

Member of the Cosmetics Ingredients Review Expert Panel. 2000- Present.

Member of the American College of Veterinary Pathologists Examination Committee. Proctor 1999 and committee member 2000 - 2004.

Member of the program committee for the 1997 Annual Meeting of the American College of Veterinary Pathologists. Albuquerque, NM, 1997.

Member of the organizing committee for the plenary session of the 48th Annual Meeting of the American College of Veterinary Pathologists, Albuquerque, NM, 1997 (Chair: Dr. Nancy Gillete). Topic: Environmental Toxicology.

Chair of the 1995 CL Davis symposium on “The Pathology of Avian and Swine Diseases and Clinical Pathology.” 5 day (36 hour) course with 14 discussants. June 25-29, West Lafayette, IN.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Ad-hoc reviewer: American Journal of Veterinary Research, Journal of American Veterinary Medical Association, Science, Toxicology and Applied Pharmacology, Toxicologic Pathology, and Veterinary Pathology.

TEACHING ACTIVITIES**Courses Taught:**

Pathology of the hematopoietic and lymphoid systems. 2012 - Present. Visiting Professor, St George's University, Grenada, 10 lectures and two laboratories.

Ultrastructure Pathology (CPB 61000). 2012 - Present. Course coordinator. 3 credit course for pathology residents.

Principles of Human Immunology (VPB 535) 1998-2003. Course coordinator. An overview of the fundamental concepts of human immunology. 1 credit course for first year medical students. 24 hours of lecture.

Careers in Veterinary Medicine (VM 102). 1998 - Present. Dr. John Van Vleet course coordinator. Careers in Wildlife Medicine and Environmental Medicine. 1 hour.

Applications and Integration (VM 540). 1997 - Present. One module each semester for approximately 18- 24 contact hours/semester.

Toxicology (MCMP/HSCI 560). 1997 - Present. Dr. Gary Carlson course coordinator, 2 hours of lecture on immunotoxicology.

Advanced Veterinary Anatomic Pathology (VPB 602) 1996-1997. Team taught course for graduate students in veterinary pathology.

Introduction to Medical Immunology (Biol 535) 1996-1997. Course coordinator, introductory course on medical immunology for first year medical students, 16 hours of lecture.

Carcinogenesis, Cancer Risk, and Chemoprevention (VCS 602) 1997. Two one hour lectures on carcinogen metabolism.

Pathology of Laboratory Animals (VPB 607) 1995-2004. Course coordinator, 4 credit course covering diseases of primates, rats, mice, guinea pigs, hamsters, mink, rabbits, gerbils.

Topics in Advanced Medicine (VCS 621) 1995. One lecture in immunology.

Molecular Parasitology (VPB 680) 1993. Parasite immunology. 4 hours of lecture.

Histopathology Seminar (VPB 691). 1992 - Present.

Principles of Veterinary Immunology (VPB 85300) 1992 - Present. Complement, T cell effector mechanisms, hypersensitivity reactions, and autoimmune and immune deficiency diseases. 16 hours of lecture.

General Pathology (VPB 85100) 1992 - Present. Inflammation, healing and regeneration, and neoplasia. 10 hours of lecture and 12 hours of lab.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued**SVM Committees:**

Member of Mentoring Task Force 2010 - Present.
Member of Curriculum Revision Task Force 2010 – Present.
Member, Teaching Evaluation Committee 2008 – Present.
Member, Curriculum Committee 2010 – Present.
Chair, Academic Standards and Student Awards committee 2009 – Present.
Member of the CPB Department Head Search Committee, 2009.
Member of Academic Standards and Student Awards committee, 2007 – Present.
Member of Hayward Endowed Chair search committee, 2007 - 2008.
VPB Department Pathology Section Head, 2003 - Present.
Member of the Pathology Search Committee, 2004.
Member of the Environmental Epidemiologist Search Committee, 2004.
Member of the Experimental Pathologist Search Committee, 2003.
Member of the Immunology Search Committee, 2001.
Member of the Walther Cancer Biology Position Committee, 2000.
Member of the Molecular Biologist Search Committee, 2000.
Member of the Research Advisory Board Committee, 1997-2000
Member of VPB Graduate Studies Committee, 1998-2001
Member of the SVM Dean Search Committee, 1995.
Member of the VPB Department Head Search Committee, 1996-1998.
Member of the VPB Parasitology Search Committee, 1997.
Interviewer for SVM Admissions Committee for the class of 1999, 2000, 2001.
Member of the VCS Cardiologist and Neurologist Search Committee, 1998.
SVM Grievance Committee, 1998-2001
Member of the SVM Wildlife Committee, 1996-2003

University Committees:

Member of University Senate 2012 – Present.
Member of University Grievance Review Committee 2005 – 2008.
Member of the Graduate Council Committee on Graduate Faculty Certification, 2003 - 2004.
Member of the Graduate Council Task Force on Ethics in Graduate Education, 2003 - 2004.
Chairman of Committee E of the University Graduate Council, 2002-2004.
School of Veterinary Medicine representative to the University Graduate Council, 2001 - 2004.
Member of the University Graduate Council Steering Committee, 2002 - 2004.

**Involvement in Graduate Research and Training Program
Committee member of Graduate Masters or PhD students:**

Abby Durkes*, Purdue University, PhD, expected completion, 2015
Grant Burcham, Purdue University, PhD, expected completion 2013.
Robert Johnson*, Purdue University, PhD, completion 2012.
Manish Tandon, Purdue University, PhD, completion 2011.
Justin Xu, Purdue University, PhD, completion 2011.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Kim Maratea*, Purdue University, PhD, completion date 2009.
Julie Harvilchuck, Purdue University, PhD, completion date 2008.
Julia Lucas*, Purdue University, PhD, completion date 2008.
Alok Sharma*, Purdue University, PhD, completion date 2007.
Mandar Kullarni, Purdue University, PhD, completion date 2007.
Jason Hodde*, Purdue University, PhD, withdrew.
Armando Irizarry*, Purdue University, PhD, completion date: 2002.
Lydia Andrews-Jones*, Purdue University, Resident/PhD, completion date: 2001.
Pin Wang, Purdue University, MS Student, completion date: 2000.
Victoria Owiredu-Laast*, Purdue University, MS, completion date: 2000.
Scott Carlson, Purdue University, MS, completion date: 2000.
Scott Storandt, Purdue University, MS, completion date: 2000.
Armando Irizarry*, Purdue University, MS, completion date: 1999.
Jim Raymond, Purdue University, MS, completion date: 1998.
Melissa Popielarczyk, Purdue University, MS, completion date: 1998.
Ron Gillespie, Purdue University, PhD, completion date: 1998.
Kurt Hankenson, Purdue University, MS, completion date: 1997.
Leslie Huska, University MA, PhD, completion date: 1997.
Tamara Kondratyuk*, Purdue University, Post-Doc. 1996-2001.
Anthony Fletcher, Purdue University, MS, completion date: 1997.

*Student's major professor

Veterinary Medicine Honor Society:

President (1998-1999).
Vice President (1997-1998)
Faculty Advisor (1996-1997)
Omicron Chapter of Phi Zeta

Summer Research Fellowships:

David Johnston (Abbott Fellowship) worked in Dr. Snyder's laboratory the summer of 2010.
Topic: Characterization of a mouse model of colon cancer.

Sofia Cerda (MARC/AIM Student) worked in Dr. Snyder's laboratory the summer of 1998.
Topic: CYP 1A1 expression in mallard ducks exposed to crude oil.

Sonja Kos (Class of 1999) worked in Dr. Snyder's laboratory the summer of 1996 and 1997.
Topic: Characterization of monoclonal antibodies against canine lymphocytes.
Amber Ying (Upward Bound Student) worked in Dr. Snyder's laboratory the summer of 1996.
Topic: Metastatic potential of human breast cancer cells.

Amy Byse (Class of 1996) worked in Dr. Snyder's laboratory the summer of 1994. Topic:
Autoantibodies in canine juvenile polyarteritis syndrome.

PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued**Student Extra Curricular Research Project – Supervisor:**

Lindsay Borchering (Class of 2006) Dr. Snyder provided an opportunity for Lindsay to work on a research project on the chronic effects of the *Exxon Valdez* oil spill on Alaskan sea otters in Prince William Sound. Dr. Snyder supervised Lindsay's work and study.

Pete Bratis (Class of 2004) Dr. Snyder provided an opportunity for Pete to work on a research project on the chronic effects of the *Exxon Valdez* oil spill on Alaskan sea otters in Prince William Sound. Dr. Snyder supervised Pete's work and study.

Tracy Sudlow (Class of 2001). Dr. Snyder provided an opportunity for Tracy to work at the Alaska SeaLife Center in Seward Alaska. Tracy assisted the staff veterinarian in care and treatment of rehabilitation animals and provided assistance to research investigators.

Leslie Shockley-Walters (Class of 1999). Dr. Snyder provided an opportunity for Leslie to work on a research project on the chronic effects of the *Exxon Valdez* oil spill on Alaskan sea otters in Prince William Sound. Dr. Snyder supervised Leslie's work and study.

Kathy Stoeffel (Class of 1998). Dr. Snyder provided an opportunity for Kathy to work on a research project on the chronic effects of the *Exxon Valdez* oil spill on Alaskan sea otters in Prince William Sound. Dr. Snyder supervised Kathy's work and study.

Nathan Janovitz. High School Science Fair Project. Influence of dioxin on human mammary tumor cells in the nude mouse. 1997.

Bryan Baetsle (Class of 1996). Dr. Snyder provided an opportunity for Bryan to work on a research project on the chronic effects of the *Exxon Valdez* oil spill on Harlequin ducks in the Prince William Sound. Dr. Snyder supervised Bryan's work and study.

Veterinary Students**Academic Faculty Advisor:**

Bret Moore (Class of 2015)
Emily Scavuzzo (Class of 2015)
Jessica Spake (Class of 2015)
Tyler Peat (Class of 2014)
Mario Sola (Class of 2014)
Briah Tannler (Class of 2013)
Ron Chew (Class of 2013)
Krystle King (Class of 2012)
Bethanne Eddy (Class of 2012)
Kelly Castano (Class of 2011)
Janet Behm (Class of 2011)
Lauren Michelsen (Class of 2010)
Marigold Bethany (Class of 2010)
Stacy Haak (Class of 2009)
Heidi Greger (Class of 2009)
Jennifer Maratea (Class of 2008)
Brittany Kureth (Class of 2008)



PAUL WILLIAM SNYDER, D.V.M., Ph.D., DIPLOMATE, A.C.V.P., FELLOW I.A.T.P. - continued

Megan Potter (Class of 2007)
Dennis Trafny (Class of 2007)
Lindsay Borcharding (Class of 2006)
Jamie Hamilton (Class of 2006)
Andrew Fipp (Class of 2005)
Sarah Kanagy (Class of 2005)
Kelly Smith (Class of 2004)
Peter Bratis (Class of 2004)
Brent Gust (Class of 2003)
Kim Maratea (Class of 2003)
Brian Mehringer (Class of 2002)
Brian Koesters (Class of 2002)
Ali McGirr (Class of 2001)
Sasha Burczewski (Class of 2001)
Eric Renshaw (Class of 2000)
Rex Miller (Class of 2000)
Matt Renninger (Class of 1999)
Sonja Kos (Class of 1999)
Jamie Vazquez (Class of 1998)
Janet Foley (Class of 1998)

Faculty Advisor for the Student Chapter of the American Veterinary Medical Association, 1996-2005.

Journal Clubs:

Immunology Journal Club (1992-2000).
Molecular Biology Journal Club (1992-1999).

Pathology Residency Training:

Pathology residency training program through one on one case review and participation in the advanced pathology seminar program (VPB 602 and VPB 691). These courses are taught every semester and have 30-40 contact hours/semester.

Applications and Integrations (A&I) Course:

Tutor for the 1997/1998 academic year serving as a mentor in two modules. 18-24 hours/module.