

CURRICULUM VITAE

Philip James Johnson BVSc (Hons), MS,
Diplomate ACVIM, Diplomate ECEIM, MRCVS

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Telephone: 870-680-8911
Place of Birth: United Kingdom of Great Britain (Citizen of the USA)
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EDUCATION:

1981 Bachelor of Veterinary Science with First Class Honors, University of Bristol School of Veterinary Science, United Kingdom of Great Britain (1976-1981)
1991 Master of Science in Veterinary Clinical Medicine, College of Veterinary Medicine, University of Illinois at Urbana-Champaign, Urbana-Champaign, Illinois, USA (1984-1987)

PROFESSIONAL EXPERIENCE AND ACADEMIC APPOINTMENTS:

Associate Staff Clinician, Geering and Marlow, Veterinary Surgeons, Pockeredge Farm, Corsham, Wiltshire, UK (1981-1983)

Resident, Equine Medicine and Surgery, Department of Veterinary Clinical Medicine, College of Veterinary Medicine, University of Illinois at Urbana-Champaign, Urbana, IL 61801, USA (1984-1987)

Assistant Professor, Equine Medicine and Surgery, College of Veterinary Medicine, Mississippi State University, Mississippi State, MS 39762 (1987-1991)

Section Chief, Equine Medicine and Surgery, Assistant Professor, College of Veterinary Medicine, Mississippi State University, Mississippi State, MS 39762 (1991)

Assistant Professor, Equine Internal Medicine, College of Veterinary Medicine, University of Missouri, Columbia, MO 65211 (1991-1998)

Associate Professor, Equine Internal Medicine, College of Veterinary Medicine, University of Missouri, Columbia, MO 65211 (1998-2002)

Professor and Instructional Leader, Equine Internal Medicine, College of Veterinary Medicine, University of Missouri, Columbia, MO 65211 (Prof: 2002-present time) (Instructional Leader: 1998-present time): Responsibilities for organizing and supervising the in-clinic training "equine block" (EM&S 642) in the VMTH and for the didactic lecture series (VMS 6151 & 6152).

Professor Emeritus, College of Veterinary Medicine, University of Missouri, Columbia, MO 65211 (2025-)

CURRENT APPOINTMENT:

Professor and Associate Dean for Professional Education, College of Veterinary Medicine, Arkansas State University (since 2025).

CURRENT PROFESSIONAL LICENSURE:

Passed NBE, CCT, and obtained US state licensure (Missouri), 1993

<u>State</u>	<u>I.D. Number</u>	<u>Dates</u>
United Kingdom (MRCVS)	Not Applicable	1981-present
Missouri	VT 005558	1991-present

SPECIALTY BOARD CERTIFICATION:

Internal Medicine (Large Animal Internal Medicine) American College of Veterinary Internal Medicine (1990)[5/9/1990]

Equine Internal Medicine, European College of Equine Internal Medicine (2005)

AWARDS AND HONORS:

- 1981 Duke of Edinburgh Gold Award, London, UK
Honorary Veterinary Surgeon, Bath Riding Club Annual Horse Show, UK
Honorary Veterinary Surgeon, Bath Riding Club Sponsored long-distance (endurance) ride
- 1982 Honorary Veterinary Surgeon, Bristol Horse Show, UK
Honorary Veterinary Surgeon, Bath Riding Club Sponsored long-distance (endurance) ride, UK
- 1983 Honorary Veterinary Surgeon, Bristol Horse Show, UK
- 1984-1986 Resident Research Award, Solvay Veterinary, Inc, College of Veterinary Medicine, University of Illinois
- 1986-1987 Elected (graduate student) representative to vote at faculty meetings on behalf of the teaching and research associates in the College of Veterinary Medicine, University of Illinois at Urbana-Champaign
- 1987-1991 Faculty advisor to Mississippi State Student Chapter of the AAEP
- 1991 Honorary veterinarian in attendance at the St. Louis National Charity Horse Show (on behalf of the University of Missouri College of Veterinary Medicine)
- 2000 Invited Participant at the “World Equine Leaders” EPM 2000 Symposium in Fort Dodge, Iowa (April 24-25)
- 2002 Grayson-Jockey Club Research Foundation’s **Dubai Millennium Memorial Equine Research Award**.
- 2005 **Awarded: JVDI outstanding short communication award for 2004** for paper entitled: Kleiboeker SB, Turnquist SE, **Johnson PJ**, Kreeger JM. Detection and nucleotide sequencing of a DNA-packaging protein gene of equine gammaherpesviruses. *J Vet Diagn Invest* 16, 67-74, 2004.
- 2008 **Golden Aescapulus** Award for Teaching. College of Veterinary Medicine, University of Missouri.
- 2012 **Journal of Veterinary Internal Medicine Certificate of Recognition: Top 5 article** (based on downloads during 2010 and 2012): presented to authors at AVVIM Annual Forum in New Orleans, 2012. (Frank N, Geor RJ, Bailey SR, Durham AE, **Johnson PJ**. (2010) Equine Metabolic Syndrome. *J. Vet. Internal Med.* 24(3))
- 2013 **ADVANCING MISSOURI** University of Missouri Leadership Development Program (President’s Academic Leadership Institute)
- 2014 **International Equine Veterinarian Hall of Fame**, inductee, 2014
- 2014 **MU CVM Top Faculty Achiever** recognition by MU Chancellor, 2014
- 2015 **AVMA Spotlight on Biomedical Research** AVMA Members Working to Advance Animal and Human Health through Research. Featured member, July 2015
- 2017 Excellence in **Electron Microscopy** award winner (2017), College of Veterinary Medicine, University of Missouri.
- 2018 **Jeff Shikles Distinguished Service Award** – awarded to our team by the Missouri Horse Shows Association (MHSA) on January 27th, 2018
- 2019 **Dadd Award**. Recognition of Teaching Excellence by faculty peers, College of Veterinary Medicine, University of Missouri.
- 2022 **ACVIM Lifetime Achievement Award** (first for a large animal diplomate), June 2022 (Austin, Texas) “*In recognition of significant contributions and prominent leadership to the large animal internal medicine specialty*”

TEACHING:

1991 – 2025: Contributed to the education of Doctor of Veterinary Medicine (DVM) students through both leadership and participation in didactic (lecture-based), practical (clinical training laboratories), and hospital (clinical rotations) activities. Contributed to the post-doctoral training of equine medicine and surgery interns, equine and livestock residents, graduate students (MS, PhD), and post-doctoral fellows. Presented classes for students in the College of Veterinary Medicine and in the College of Agriculture (Animal Science Department). Broader specific information available upon request.

EDITORSHIPS:

Assistant Editor, Equine Veterinary Education Journal (British Equine Veterinary Association)

BIBLIOGRAPHY:

Publications in Refereed Journals:

Holland CJ, Ristic M, Cole AI, **Johnson PJ**, Baker GJ and Goetz TE. Isolation, experimental transmission and characterization of the causative agent of Potomac Horse Fever. *Science* 227:522-524, 1985.

Johnson PJ, Goetz TE, Baker GJ and Foreman JH. Treatment of two mares with obstructive (vaginal) urinary outflow incontinence. *J Am Vet Med Ass* 191:973-975, 1987.

Johnson PJ, Allhands RV, Baker GJ, Boero MJ, Foreman JH, Hyyppa T and Huhn JC. Incomplete linear tibial fractures in two horses. *J Am Vet Med Ass* 192:522-524, 1988.

Moustafa MAI, Baker GJ, Boero MJ and **Johnson PJ**. Atypical osteochondrosis in a four-month-old foal. *Equine Vet J* 20:66-68, 1988.

Goetz TE, Holland CJ, Dawson JE, Ristic M, Skibbe K, Keegan KG, **Johnson PJ**, Schaeffer DJ and Baker GJ. Monthly prevalence (in 1986) of antibody titers against equine monocytic ehrlichiosis in apparently healthy horses in Illinois. *Am J Vet Res* 50:1936-1939, 1989.

Goetz TE, Ogilvie GK, Keegan KG and **Johnson PJ**. Treatment of equine melanomas with cimetidine. *J Am Vet Med Ass* 196:449-452, 1990.

Johnson PJ and Crenshaw KL. The treatment of cystic and urethral calculi in a gelding. *Veterinary Medicine* 85:891-900, 1990.

Publications in Refereed Journals (continued):

Johnson PJ, Goetz TE, Foreman JH, Vogel RS, Hoffman WE and Baker GJ. Effect of whole-body potassium depletion on plasma, erythrocyte and middle gluteal muscle potassium concentration of healthy, adult horses. Am J Vet Res 52:1676-1683, 1991.

Johnson PJ, Goetz TE. Granulomatous enteritis and *Campylobacter* bacteremia in a horse. J Am Vet Med Assoc 203:1039-1042, 1993.

Johnson PJ, Lin TL, Jennings DP. Diffuse cerebral encephalopathy due to acquired hydrocephalus and cholesterinic granulomas in a horse. J Am Vet Med Assoc 203:694-697, 1993.

Campbell-Beggs CL, **Johnson PJ**, Messer NT, Lattimer JC, Johnson GC, Casteel SW. Osteochondritis dissecans in an Appaloosa foal associated with zinc toxicity. J Equine Vet Sci 14:546-550, 1994.

Johnson PJ, Wilson DA, Turk JR, Pace LW, Campbell-Beggs CL. Disseminated peritoneal leiomyomatosis in a horse. J Am Vet Med Assoc 205:725-728, 1994.

Messer NT, **Johnson PJ**. Idiopathic acute hepatic disease in horses: 12 cases (1982-1992). J Am Vet Med Assoc 204:1934-1937, 1994.

Messer NT, **Johnson PJ**. Serum hepatitis in two broodmares. J Am Vet Med Assoc 204:1790-1792, 1994.

Purcell KL, **Johnson PJ**, Kreeger JM, Wilson DA. Jejunal obstruction caused by a *Pythium insidiosum* granuloma in a mare. J Am Vet Med Assoc 205:337-339, 1994.

Frankeny RL, **Johnson PJ**, Messer NT, Keegan KG, Corwin LA. Bilateral tibial metaphyseal stress fractures associated with physitis in a foal. J Am Vet Med Assoc 205:76-78, 1994.

Pugh CR, **Johnson PJ**, Crawley G, Finn ST. Ultrasonography of the equine bicipital tendon region. A case report and review of anatomy. Vet Radiol. & Ultrasound 35:183-188, 1994.

Collins BK, **Johnson PJ**, Moore CP, Collier LL, Shaw MS. Immune-mediated keratoconjunctivitis sicca in a horse. Prog in Vet and Comp Ophthalmol 4:51-65, 1994.

Campbell-Beggs CL, **Johnson PJ**, Wilson DA, Miller MA. Chyloabdomen in a neonatal foal. Vet Record 137:96-98, 1995.

Johnson PJ, Goetz TE, Foreman JH, Zachary JF. Pheochromocytoma in horses: 2 cases (1985-1986). J Am Vet Med Assoc 1995;206: 837-841

Messer NT, **Johnson PJ**, Refsal KR, Nachreiner RF, Ganjam VK, Krause GF. Effect of food deprivation on baseline iodothyronine and cortisol concentrations in healthy, adult horses. Am J Vet Res 56:116-121, 1995.

Johnson PJ. Equine Dysautonomia. Equine Practice 17(2):25-32, 1995.

Cogswell AM, **Johnson PJ**, Adams HR. Evidence for endothelium-derived relaxing factor/nitric oxide in equine digital artery. Am J Vet Res 1995;56:1637-1641

Johnson PJ. Electrolyte and acid-base disturbances in the horse. Vet Clin N Am: Equine Pract 11(3):491-514, 1995

Allen GK, Campbell-Beggs CL, Robinson JA, **Johnson PJ**, Green EM. Induction of early-phase endotoxin tolerance in horses. Equine Vet J 1996;28:269-274

Johnson PJ, Moore LA, Reed AL. What is your diagnosis? J Am Vet Med Assoc 1996;209:901-902

Aronoff NA, Keegan KG, **Johnson PJ**, Wilson DA, Reed AL. Management of pyloric obstruction in a foal. J Am Vet Med Assoc 1996;210:902-907

Johnson PJ. Sepsis of the *ulnaris lateralis* bursa and elbow joint in a horse. J Am Vet Med Assoc 1996;208:1238-1240

Moore LA, **Johnson PJ**, Messer NT, Kline KL, Crump LM, Knibb JR. Successful management of headshaking following treatment for equine protozoal myeloencephalitis in three horses. Veterinary Record 1997;141:264-267

Pace LW, Turnquist SE, Casteel SW, **Johnson PJ**, Frankeny RL. Acute arsenic toxicosis in five horses. Veterinary Pathology 1997;34:160-164

Sedrish SS, **Johnson PJ**. Theriogenology Question of the Month. Ovarian hematoma associated with hemoperitoneum and exsanguination in a Miniature Horse. J Am Vet Med Assoc 1997;210:179-180

Johnson PJ, Johnson GC, and Pace LW. Thoracic vertebral malformation in two horses. Equine Veterinary Journal 1997;29:493-496

Johnson PJ, Casteel SW, Messer NT. Effect of feeding deoxynivalenol (vomitoxin)-contaminated barley to horses. J Vet Diagnostic Invest 1997;9:219-221

Publications in Refereed Journals (continued):

Thayer JF, Hahn AW, Sollers JJ, van Doornen L, **Johnson PJ**. Heart rate variability in the horse by ambulatory monitoring. Journal of Biomedical Sciences and Instrumentation 1997;33:482-485.

Publications in Refereed Journals (cont.):

Johnson PJ, Pace LW, Mrad DR, Turnquist SE, Moore LA, Ganjam VK. Small intestinal fibrosis in two horses J Am Vet Med Assoc 1997;211(6):1013-1017

Johnson PJ. Pemphigus foliaceus in a horse. Journal of Veterinary Allergy and Clinical Immunology 1997;5(4):131-134

Johnson PJ. Physiology of body fluids in the horse. Vet Clin N Am: Equine Pract 1998;14:1-22.

Moore LA, **Johnson PJ**, Bailey KL. Aorto-iliac thrombosis in a foal. Veterinary Record 1998;142:459-462.

Johnson PJ, Tyagi SC, Katwa LC, Ganjam VK, Moore LA, Kreeger JM. Activation of extracellular matrix metalloproteinases in equine laminitis. Veterinary Record 1998;142:392-396

Johnson PJ. Dermatologic tumors (excluding sarcoids). Vet Clin N Am: Equine Pract 14 (3): 625-658, 1998

Thayer JF, Hahn AW, Pearson MA, Sollers JJ, **Johnson PJ**, Lock WE. Heart rate variability during exercise in the horse. Biomedical Sciences Instrumentation 1998, 34:246-251

Johnson, PJ. Laminitis, "hypothyroidism", and obesity: A peripheral Cushingoid Syndrome in horses? J Am Quarter Horse Assoc, March 1999: 70-73

Johnson PJ, Wilson DA, Keegan KG, Purcell KL, Moore LA, Kreeger JM, Frankeny RL, Lattimer JC. Retrospective study of cecocolic intussusception (cecal inversion) in 9 horses (1982-1998). Journal of Equine Veterinary Science 1999;19(3): 190-195

Katwa LC, **Johnson PJ**, Ganjam VK, Kreeger JM, Messer NT. Expression of endothelin in equine laminitis. Equine Vet J 1999;31(3):243-247

Johnson PJ, Mrad DR, Schwartz AJ. Presumed moxidectin toxicosis in three foals. J Am Vet Med Assoc 1999; 214 (5): 678-680

Johnson PJ, Moore LA, Mrad DR, Turk JR, Wilson DA. Sudden and unexpected death associated with pulmonary aspergillosis in two horses. Veterinary Record 1999; 145(3)

Johnson PJ, Constantinescu GM. Collection of cerebrospinal fluid in horses. Equine Veterinary Education Journal 2000;12(1): 7-12.

Johnson PJ, Constantinescu GM. Analysis of cerebrospinal fluid in horses. Equine Veterinary Education Journal 2000;12(1): 13-17.

Johnson PJ, Kreeger JM, Keeler M, Ganjam VK, Messer NT. Serum markers of lamellar basement membrane degradation and histopathological changes in horses affected with laminitis. Equine Vet J 32(6): 462-468, 2000

Moore LA, **Johnson PJ**. Narcolepsy in horses. Compend Contin Educ Pract Vet 2000;22(1): 86-90.

Kellam LA, **Johnson PJ**, Kramer, J, Keegan, KG. Gastric impaction and obstruction of the small intestine associated with persimmon phytobezoar in a horse. J Am Vet Med Assoc 2000;216 (8): 1279-1281.

Marsh AE, **Johnson PJ**, Ramos-Vara J, Johnson GC. Characterization of a *Sarcocystis neurona* isolate from a Missouri horse with equine protozoal myeloencephalitis. Veterinary Parasitology 95, 143-154, 2001.

Vardeleon D, Marsh AE, Thorne JG, Loch W, Young, R. & **Johnson PJ**. Prevalence of *Neospora hughesi* and *Sarcocystis neurona* antibodies in horses from various geographical locations. Veterinary Parasitology 95, 273-282, 2001.

Johnson PJ, Constantinescu GM. & Frappier BL. The vestibular system. Part I: Anatomy, physiology and clinical signs from altered vestibular function. Equine Veterinary Education Journal 13 (2), 105-109 2001.

Johnson PJ, & Kellam L.L. The vestibular system. Part II: Differential diagnosis. Equine Veterinary Education Journal 13 (3), 141-150 2001.

Nappert G, **Johnson PJ**. Determination of the acid-base status in 50 horses admitted with colic between December 1998 and May 1999. Canadian Vet. J. 42 (9), 73-707, 2001.

Scott MA, Stockham SL, **Johnson PJ**, & Curtis KS. The effect of EDTA on cerebrospinal fluid protein concentrations as measured by the Vitros-500. Am J Vet Res in preparation, 2002.

Publications in Refereed Journals (continued):

Kleiboeker SB, Schommer SK, **Johnson PJ**, Ehlers B, Turnquist SE, Boucher M, & Kreeger JM. Association of two newly recognized herpesviruses with interstitial pneumonia in donkeys (*Equus asinus*). *Journal of Veterinary Diagnostic Investigation* 14(4):273-280, 2002.

Kreeger JM, Templer A, Turnquist SE, Bailey KL, **Johnson PJ** & Wilson DA. Paranasal meningioma in a horse. *Journal of Veterinary Diagnostic Investigation* 14(4):322-325, 2002.

Templer AS, Garcia-Seco E, **Johnson PJ**, Keegan KG & Lattimer JC. Ultrasonographic findings in a mare with strangulating jejunal obstruction associated with pedunculated lipomas. *Equine Veterinary Education Journal* 15(1):52-55, 2002.

Johnson PJ: Equine Metabolic Syndrome ("Peripheral Cushing's Syndrome"). *Veterinary Clinics of North America: Equine Practice* 18, 271-293, 2002.

Johnson PJ, Slight SH, Ganjam VK & Kreeger JM: Glucocorticoids and laminitis in the horse. *Veterinary Clinics of North America: Equine Practice* 18, 219-236, 2002.

Harvey JW, Stockham SL, Scott MA, **Johnson PJ**, Donald JJ, & Chandler C Methemoglobinemia and Eccentrocytosis in Equine Erythrocyte Flavin Adenine Dinucleotide (FAD) Deficiency. *Veterinary Pathology* 40(6):632-642, 2003

Kleiboeker SB, Turnquist SE, **Johnson PJ**, Kreeger JM. Detection and nucleotide sequencing of a DNA-packaging protein gene of equine gammaherpesviruses. *J Vet Diagn Invest* 16, 67-74, 2004. [awarded: JVDI outstanding short communication award for 2004]

Johnson PJ, Messer NT, Ganjam VK, Thompson DL, Refsal KR, Loch WE & Ellersieck MR. Effects of propylthiouracil and bromocryptine on serum concentrations of thyrotrophin and thyroid hormones in normal female horses. *Equine Veterinary Journal*. 2003;35(3):296-301.

Baker SJ, **Johnson PJ**, David A, Cook CR. Idiopathic gastroesophageal reflux disease in an adult horse. *Journal of American Veterinary Medical Association* 224(12), 1967-70, 2004.

Marsh AE, Lakritz J, **Johnson PJ**, Miller MA, Chiang YW, Chu H-J. Evaluation of immune responses in horses immunized using a killed *Sarcocystis neurona* vaccine. *Veterinary Therapeutics: Research in Applied Veterinary Medicine* 5(1):34-42, 2004

Harvey JW, Stockham SL, Scott MA, **Johnson PJ**, Donald JJ, Chandler CJ. (2003) Methemoglobinemia and eccentrocytosis in equine erythrocyte flavin adenine dinucleotide deficiency. *Veterinary Pathology* 40, 632-642.

Scotty NC, Ford M, Williams F, Loiacono C, **Johnson PJ**, Messer NT, Turnquist SE, Essman S. (2004) Exophthalmia associated with paranasal sinus osteoma in a Quarter Horse mare. *J Vet Diagn Invest* 16, 155-160.

Johnson PJ, Ganjam VK, Slight SH, Kreeger JM, Messer NT. (2004) Tissue specific dysregulation of cortisol metabolism in equine laminitis. *Equine Vet J* 36, 41-45

Johnson PJ, Messer NT, Kellon E. (2004) Treatment of Equine Metabolic Syndrome. *Compendium of Continuing Education for the Practicing Veterinarian* 26(2), 122-130.

Wiedmeyer CE, **Johnson PJ**, Cohn LA, Meadows RL. (2003) Evaluation of a continuous glucose monitoring system for use in dogs, cats, and horses. *J Am Vet Med Assoc*. 223, 987-92

Miller MA, Kottler SJ, Ramos-Vara JA, **Johnson PJ**, Ganjam VK, Evans TJ. (2003) 3-methylindole induces transient olfactory mucosal injury in ponies. *Vet Pathol* 40, 363-70

Johnson PJ, Messer NT, Ganjam VK. Cushing's syndromes, insulin resistance and endocrinopathic laminitis. *Equine Veterinary Journal* 2004;36(3):194-198.

Johnson PJ, Scotty NC, Wiedmeyer C, Messer NT, Kreeger JM. Diabetes mellitus in a domesticated Spanish Mustang mare. *J Am Vet Med Assoc* 2004; 226(4): 584-588.

Johnson PJ, Messer NT, Bowles DK, Slight SH, Ganjam VK, Kreeger JM. (2004) Glucocorticoids and laminitis in horses. *Compend Contin Educ Pract Vet* 26(7), 547-558.

Johnson PJ, Messer NT, Slight SH, Wiedmeyer C, Buff P, Ganjam VK, Endocrinopathic laminitis in the horse. *Clinical Techniques in Equine Practice*. 3(1):45-56, 2004.

Keegan KG, Arafat S, Skubic M, Wilson DA, Kramer J, Messer NM, **Johnson PJ**, O'Brien DP, Johnson G. (2004) Detection of spinal ataxia in horses using fuzzy clustering of body position uncertainty. *Equine Veterinary Journal* (supplement) 36(8), 712-717.

Publications in Refereed Journals (continued):

- Schott II HC, Graves EA, Refsal KR, Nachreiner RJ, Eberhart SW, **Johnson PJ**, Slight SH, Messer NT, Ganjam VK. Treatment of pituitary *pars intermedia* dysfunction (classic Cushing's disease) and metabolic syndrome (peripheral Cushing's syndrome) in horses. *Advances in Veterinary Dermatology* 5. Proceedings of the 5th World Congress of Veterinary Dermatology (editors: Andrew Hillier, Aiden P. Foster & Kenneth W. Kwochka). Hofburg Conference Center, Vienna, Austria, Blackwell Publishing, Peer-reviewed, 2004, pp 159-169.
- Garcia-Seco E, Wilson DA, Kramer J, Keegan KG, Branson KR, **Johnson PJ**, Tyler JW. Prevalence and risk factors associated with outcome of surgical removal of pedunculated lipomas in horses: 102 cases (1987-2002). *J Am Vet Med Assoc* 2005;226:1529-1537.
- Scotty NC, Evans TJ, Giuliano E, **Johnson PJ**, Rottinghaus GE, Fothergill AW, Cutler TJ. Lufenuron: In vitro efficacy against filamentous fungi and inadequate blood levels following oral administration to horses. *J. Vet. Internal. Med.* 2005;19(6):878-882.
- Buff PR, Keisler DH, **Johnson PJ**, Messer NT, and Ganjam VK. Restrictive grazing activity in obese pony mares during nocturnal or diurnal periods suppresses peripheral leptin: implications of altering leptin resistance. *Journal of Endocrinology* 2005, submitted.
- Wiedmeyer CE, **Johnson PJ**, Cohn LA, Meadows RL, Kerl ME, Tessman RK, Perlis J, Declue AE. Evaluation of a Continuous Glucose Monitoring System for Use in Veterinary Medicine. *Diabetes Technology and Therapeutics* 7(6), 885-895, 2005.
- LaCarrubba AM, **Johnson PJ**, Whitney, MS, Miller MA, Lattimer, JC. Hypoglycemia and acute tumor lysis syndrome associated with peritoneal mesothelioma in a horse. *J. Vet. Internal. Med.* 2006;20(4):1018-1022.
- Buff PR, **Johnson PJ**, Wiedmeyer CE, Ganjam VK, Messer IV NT, Keisler DH. Modulation of leptin, insulin and growth hormone in obese pony mares under chronic nutritional restriction and supplementation with ractopamine hydrochloride. *Veterinary Therapeutics*, 7(1):64-72, 2006
- Buff PR, Keisler DH, **Johnson PJ**, Messer NT, Ganjam VK. A novel restrictive grazing approach to enhance leptin sensitivity in obese pony mares. In: *Nutrition and feeding of the broodmare*, Wageningen Academic Publishers, Wageningen, The Netherlands 2006 120:155-162.
- Johnson PJ**, Ganjam VK, Messer NT, Turk JR, Keisler DH, Buff PR, Wiedmeyer CE. The obesity paradigm: An introduction to the emerging discipline of adipobiology. *Proceedings of the 52nd Annual Convention of the American Association of Equine Practitioners*, San Antonio, TX, December 2-6, 2006 pp 41-50
- McInnis CL, Giuliano EA., **Johnson PJ**, Turk JR. Immunohistochemical evaluation of cyclo-oxygenase expression in corneal squamous cell carcinoma in horses. *Am J Vet Res* 2007;68(2):165-170
- Eades SC, Stokes AM, **Johnson PJ**, LeBlanc CJ, Ganjam VK, Buff PR, Moore RM. Serial alterations in digital hemodynamics and endothelin-1 immunoreactivity, platelet-neutrophil aggregation, and concentrations of nitric oxide, insulin, and glucose in blood obtained from horses following carbohydrate overload. *Am J Vet Res* 2007;68(1):87-94.
- Buff PR, Messer NT, Cogswell AM, Wilson DA, **Johnson PJ**, Keisler DH, Ganjam VK. Induction of pulsatile secretion of leptin in horses following thyroidectomy. *J. Endocrinol.* 2007 192(2): 353-359.
- Thieman KM, Clark J, **Johnson PJ**, Essman S, Giuliano EA, Mitchell J. What is your diagnosis? Ultrasonographic characterization of abdominal abscesses in a foal infected with *Rhodococcus equi*. *JAVMA* 2007;230(4):509-510.
- Messer NT & **Johnson PJ**. Evidence-based literature pertaining to thyroid dysfunction and Cushing's syndrome in the horse. *Veterinary Clinics of North America: Equine Practice*. 2007;23:329-364
- Buff PR, Messer IV NT, Cogswell AM, **Johnson PJ**, Keisler DH, Ganjam VK. Seasonal and pulsatile dynamics of thyrotropin and leptin in mares maintained under a constant energy balance, *Domestic Animal Endocrinol*, 2007;33(4):430-436.
- Johnson PJ**, Kellam LL. Risk of colic associated with persimmon fruit ingestion, *Equine Vet Educ* 2007;19(11):576-8.
- Johnson PJ**: Diagnosis of endocrinological conditions of the horse. In: Taylor, Brazil & Hillyer (eds). *Diagnostic techniques in equine medicine*, 2nd edn. Saunders Ltd, Elsevier Ltd, Oxford, UK, pending (2009)
- Giuliano EA, MacDonald I, McCaw DL, Dougherty TJ, Klauss G, Ota J, Pearce JW, **Johnson PJ**. Photodynamic therapy for the treatment of periocular squamous cell carcinoma in horses: a pilot study. *Veterinary Ophthalmology* 2008;11(1):27-34.
- Messer NT, **Johnson PJ**, Ganjam VK. Diagnosis of pituitary pars intermedia dysfunction: A review of 1999 versus 2008. *AAEP proceedings*. 2008;54:200-203.
- Johnson PJ**, Messer NT, Ganjam VK, Wiedmeyer CE. Pregnancy-associated laminitis in mares. *J Equine Vet Sci* 2009;29(1):42-46
- Coyne MJ, Cousin H, Loftus JP, **Johnson PJ**, Belknap JK, Gradil CM, Black SJ, Alfandari D. Cloning and expression of ADAM related metalloproteinases in equine laminitis. *Vet Immunol Immunopathol* 2009;129(3-4):231-241.

Publications in Refereed Journals (continued):

Loftus JP, **Johnson PJ**, Belknap JK, Pettigrew A, Black SJ. Leukocyte derived and endogenous matrix metalloproteinases in the lamellae of horses with naturally-acquired and experimentally-induced laminitis. *Vet Immunol Immunopathol* 2009;129(3-4):221-230.

Johnson PJ, Wiedmeyer CE, Messer NT, Ganjam VK. Medical Implications of Obesity in Horses – Lessons for Human Obesity. *J Diabetes Science & Technol* 2009;3(1):1-12.

Johnson PJ, Wiedmeyer CE, Messer NT. Conditions of the equine pancreas. *Equine Veterinary Education J* 2009;21(1):26-29.

Johnson PJ, Wiedmeyer CE, LaCarrubba A, Ganjam VK, Messer NT. (2010) Laminitis and the equine metabolic syndrome. *Veterinary Clinics of North America: Equine Practice*. **26**(2), 239-255.

Frank N, Geor RJ, Bailey SR, Durham AE, **Johnson PJ**. (2010) ACVIM Consensus Statement: Equine metabolic syndrome. *J Vet Intern Med* **24**(3), 467-475.

Leise BS, Faleiros RR, Watts M, **Johnson PJ**, Black SJ, Belknap JK. (2011) Laminar inflammatory gene expression in the carbohydrate overload model of equine laminitis. *Equine Vet J* **43**(1), 54-61.

Wang L, Pawlak E, Alfandari D, **Johnson PJ**, Belknap JK, Black SJ. Gene and protein expression of polysulfated proteoglycan ECM components in the equine digital laminae. *J Equine Vet Sci* 2010;30(2):98-99.

Johnson PJ, Messer NT, Ganjam VK. (2011) Pituitary pars intermedia dysfunction (equine Cushing's syndrome) (Chapter 294). In: McKinnon AO, Squires EL, Vaala WE and Varner DD (eds). *Equine Reproduction*, 2nd edn. Wiley-Blackwell, pp 2790-2795.

Johnson PJ, Wiedmeyer CE, LaCarrubba A, Messer NT, Dingfelder H, Cogswell AM, Amorim JRR, Ganjam VK. (2011) Clinical assessment of blood glucose homeostasis in horses: comparison of a continuous glucose monitoring system with a combined intravenous glucose and insulin test protocol. *J Vet Intern Med* **25**(1), 162-5.

Leise BS, Faleiros RR, Watts M, **Johnson PJ**, Black SJ, Belknap JK. (2011) Laminar inflammatory gene expression in the carbohydrate overload model of equine laminitis. *Equine Vet J* **43**(1), 54-61.

Faleiros RR, **Johnson, PJ**, Nuovo G, Messer NT, Black SJ, Belknap JK. (2011) Laminar leukocyte accumulation in horses with carbohydrate overload-induced laminitis: relationship to pathologic changes at the laminar dermal/epidermal interface. *J Vet Intern Med* **25**(1), 107-115.

Canola PA, Perotta JH, Laskoski LM, Escobar A, Melo e Silva CA, Canola JC, **Johnson PJ**, Valadão CAA. (2011) Use of gastric balloon manometry for estimation of intra-abdominal pressure in horses. *Equine Veterinary Journal* **43**(6), 714-720.

Canola PA, Perotta JH, Laskoski LM, Escobar A, Melo e Silva CA, Canola JC, **Johnson PJ**, Valadão CAA. (2011) Effect of passive pneumoperitoneum on oesophageal pressure, cardiovascular parameters and blood gas analysis in horses. *Equine Veterinary Journal* **43**(4), 446-450.

Kim DY, **Johnson, PJ**, Senter D. (2011) Severe bilaterally symmetrical alopecia in a horse. *Veterinary Pathology* **48**(6), 1216-20.

Banse HE, Gilliam LL, House AM, McKenzie HC, **Johnson PJ**, Lopes MA, Carmichael RJ, Groover ES, LaCarrubba AM, Breshears MA, Brosnahan MM, Funk R, Holbrook TC. (2011) Gastric and enteric phytobezoars caused by ingestion of persimmon in equids. *J Am Vet Med Assoc* **239**(8), 1110-6.

Faleiros RR, Leise BS, Watts M, **Johnson PJ**, Black SJ, Belknap JK. (2011) Laminar chemokine mRNA concentrations in horses with carbohydrate overload-induced laminitis. *Vet Immunol Immunopathol*. **144**(1-2), 45-51.

Leise BS, Faleiros RR, Watts M, Johnson PJ, Black SJ, Belknap JK. (2011) Laminar inflammatory gene expression in the carbohydrate overload model of equine laminitis. *Equine Vet J*. **43**(1), 54-61.

Leise BS, Faleiros RR, Watts M, **Johnson PJ**, Black SJ, Belknap JK. (2012) Hindlimb laminar inflammatory response is similar to that present in forelimbs after carbohydrate overload in horses. *Equine Vet J*. 2012 Nov;44(6):633-9.

DeClue AE, **Johnson PJ**, Day JL, Amorim JR, Honaker AR. (2012) Pathogen associated molecular pattern motifs from Gram-positive and Gram-negative bacteria induce different inflammatory mediator profiles in equine blood. *Vet J*. 2012 Jun;192(3):455-60.

Johnson PJ, Wiedmeyer CE, Lacarrubba A, Ganjam VK, Messer NT 4th. (2012) Diabetes, insulin resistance and metabolic syndrome in horses. *J Diabetes Science and Technology* **6**(3),534-40.

Tobler N, Fine DM, Messer NT, **Johnson PJ**. Effusive fibrinous pericarditis due to *Actinobacillus equuli* infection in a foal. *J Am Vet Med Assoc*. 2012 Aug 1;241(3):315-7.

Axiak S, **Johnson PJ**. Paraneoplastic manifestations of cancer in horses. (2012) *Equine Veterinary Education J* **24**(7), 367-376.

Publications in Refereed Journals (continued):

Johnson PJ, LaCarrubba AM, Messer NT, DeClue AE. (2012) Neonatal respiratory distress and sepsis in the premature foal: Challenges with diagnosis and management. Equine Veterinary Education **24**(9), 453-458

Johnson PJ Kramer J. Acute Laminitis. (2012) In: Wilson DA (ed). Clinical Veterinary Advisor: The Horse. Elsevier Inc, Saunders, St Louis, MO pp 318-321.

Johnson PJ Kramer J. Chronic Laminitis. (2012) In: Wilson DA (ed). Clinical Veterinary Advisor: The Horse. Elsevier Inc, Saunders, St Louis, MO pp 321-324.

Johnson PJ, LaCarrubba AM, Messer NT, Turnquist SE. (2012) Ulcerative glossitis and gingivitis associated with foxtail grass awn irritation in two horses. Equine Veterinary Education Journal **24**(4), 182-186.

Leise BS, Watts M, Tanhoff E, **Johnson PJ**, Black SJ, Belknap JK. Laminar Regulation of STAT1 and STAT3 in Black Walnut Extract and Carbohydrate Overload Induced Models of Laminitis. J Vet Intern Med. 2012 Jul;26(4):996-1004.

Canola PA, Perotta JH, Dias DPM, Canola JC, **Johnson PJ**, Valadao CAA. (2012) Alternative intrabladder manometry technique for the indirect measurement of intra-abdominal pressure in horses. J Equine Veterinary Science **32**(3), 183-189.

Wang L, Pawlak E, **Johnson PJ**, Belknap JK, Alfandari D, Black SJ. Effects of cleavage by a disintegrin and metalloproteinase with thrombospondin motifs-4 on gene expression and protein content of versican and aggrecan in the digital laminae of horses with starch gruel-induced laminitis. American Journal of Veterinary Research. 2012 Jul;73(7):1047-56.

Pawlak E, Wang L, **Johnson PJ**, Nuovoc G, Taye A, Belknap JK, Alfandaria D, Black SJ. Distribution and processing of ADAMTS-4, Aggrecan, Versican 1 and Hyaluronan in the equine digital laminae. American Journal of Veterinary Research. 2012 Jul;73(7):1035-46.

Canola PA, **Johnson PJ**. (2013) Intra-abdominal hypertension in horses. Equine Veterinary Education **25**(4), 189-195.

Moses ME, **Johnson PJ**, Messer NT, Wilson DA. (2013) Antidiuretic response of a horse affected with pituitary pars intermedia dysfunction to desmopressin acetate. Equine Veterinary Education. **25**(3), 111-115.

Wang L, Pawlak EA, **Johnson PJ**, Belknap JK, Eades S, Stack S, Cousin H, Black SJ. (2013) Impact of Laminitis on the Canonical Wnt Signaling Pathway in Basal Epithelial Cells of the Equine Digital Laminae” PLOS ONE 2013;8(2):1-12. [available online at <http://dx.plos.org/10.1371/journal.pone.0056025>]

Giuliano EA, **Johnson PJ**, Delgado C, Pearce, JW, Moore, CP. (2013) Local photodynamic therapy delays recurrence of equine periocular squamous cell carcinoma compared to cryotherapy. Vet Ophthalmology 1-9.

Leise, B.S., Faleiros, R.R., Burns, T.A., Gardner, A.K., Watts, M.A., Black, S.J., Geor, R., McCutcheon, L.J., Pollitt, C.C., Eades, S., **Johnson, P.J.**, Belknap, J.K. Inflammation in laminitis: the “itis” in laminitis may not pertain to all. Journal of Equine Veterinary Science 2013;33(10),860-860.

Galantino-Homer, H.L., **Johnson, P.J.**, Engiles, J.B., Pollitt, C.C., Linardi, R.K., Megee, S., Modelski, M. Loss of lamellar epidermal cytolinker and desmosomal proteins: Does it contribute to the failure of the suspensory apparatus of the distal phalanx in equine laminitis? Journal of Equine Veterinary Science 2013;33(10),849-851.

Wang L, Pawlak EA, **Johnson PJ**, Belknap JK, Alfandari D, Black SJ. (2013) Expression and Activity of Collagenases in the Digital Laminae of Horses with Carbohydrate Overload-Induced Acute Laminitis. J. Vet. Internal Med. 2014;28(1):215-22.

Pawlak EA, Geor RJ, Watts MR, Black SJ, **Johnson PJ**, Belknap JK. Regulation of hypoxia-inducible factor-1 α and related genes in equine digital lamellae and in cultured keratinocytes. Equine Vet J. 2014;46(2):203-9.

Sojka-Kritchevsky, J. E., **Johnson P. J.** Current status and future directions: Equine pituitary pars intermedia dysfunction and equine metabolic syndrome. Equine Veterinary Journal 2014;46(1):99-102.

Steelman, S.M., **Johnson, P.J.**, Jackson, A., Schulze, J., Chowdhary, BP. Serum metabolomics identifies citrulline as a predictor of adverse outcomes in an equine model of gut-derived sepsis. Physiological genomics 2014;46(10),339-347.

Hart ML, Meyer A, **Johnson PJ**, Ericsson AC. (2015) Comparative Evaluation of DNA Extraction Methods from Feces of Multiple Host Species for Downstream Next Generation Sequencing. PLoS One 10(11): e0143334, 2015. [Your article is among the top 25% most cited PLOS ONE articles.]

Whelchel D, Bradley V, Clay S, **Johnson PJ**, Leach S. (2017) Treatment of sustained monomorphic narrow-complex ventricular tachycardia in a 16-year-old Arab mare with a constant rate of infusion of lidocaine and oral propranolol. Equine Veterinary Education J **29**(12), 664-69.

Ericsson AC, **Johnson PJ**, Lopes MA, Perry SC, Lanter HR. (2016) A microbiological map of the healthy equine gastrointestinal tract. PLoS One Nov 15;11(11):e0166523

Publications in Refereed Journals (continued):

Johnson PJ, Hargreaves LL, Zobrist CN, Ericsson AC. (2018) Utility of a rapid desiccant system for preservation of fecal samples for downstream next-generation sequencing. *Journal of Microbiological Methods* 146, 1–6.

Martin LM, **Johnson PJ**, Amorim JR, Honaker AR, Donaldson RS, DeClue AE. (2016) Investigation of the potential immunomodulatory effects of resveratrol on equine whole blood: An in vitro investigation. *Research in Veterinary Science* 106, 97–99.

Johnson, R.A., **Johnson, P.J.**, Megarani, D.V., Patel, S.D., Yaglom, H.D., Osterlind, S, Grindler, K., Vogelweid, C.M., Parker, T.M., Pascua, C.K., Crowder, S.M. (2017) Horses working in therapeutic riding programs: Cortisol, adrenocorticotropic hormone, glucose, and behavior stress indicators. *Journal of Equine Veterinary Science*. 57, 77-85.

Martin LM, Bukoski AD, Whelchel DD, Evans TJ, Wiedmeyer CE, Black SJ, **Johnson PJ**. Pharmacokinetics of intravenous lithium chloride and assessment of agreement between two methods of lithium concentration measurement in the horse. *Equine Vet J*. 2018 Jul;50(4):537-543.

Martin LM, Jochems BC, Lattimer JC, **Johnson PJ**, Whelchel D. Idiopathic renal haematuria in an Egyptian Arabian stallion. *Equine Vet Education* 2019;31(5):260-263.

Tomlinson J, Kapoor A, Kumar A, Tennant B, Laverack M, Beard L, Delph K, Davis E, Schott II H, Lascola K, Holbrook T, **Johnson PJ**, Taylor S, McKenzie E, Carter-Arnold J, Setlakwe E, Fultz L, Brakenhoff J, Ruby R, Trivedi S, Van de Walle G, Renshaw R, Dubovi E, Divers T. Viral testing of 18 consecutive cases of equine serum hepatitis - a prospective study (2014-2018). *Journal of Veterinary Internal Medicine* 2019;33(1):251-257.

Tomlinson J, Tennant B, Struzyna A, Mrad D, Browne N, Whelchel D, **Johnson PJ**, Jamieson C, Löhr C, Bildfell R, McKenzie E, Laverack M, Renshaw R, Dubovi E, Kapoor A, Meirs R, Belgrave R, Engiles J, Van de Walle G, Divers T. Viral testing of 10 cases of Theiler's disease and 37 in-contact horses in the absence of equine biologic product administration – a prospective study (2014-2018). *Journal of Veterinary Internal Medicine* 2019;33(1):258-265.

Johnson PJ. (2018) Hypoglycaemia, hypoglycorrhachia, neuroglycopenia, and glycaemic thresholds. *Equine Vet Education* 32(5), DOI: 10.1111/eve.13003.

Martin LM, Jeyabalan N, Tripathi R, Panigrahi T, **Johnson PJ**, Ghosh A, Mohan RR. Autophagy in corneal health and disease: A concise review. *The Ocular Surface* 2019 Apr;17(2):186-197.

Duncan NB, **Johnson PJ**, Crosby MJ, Meyer AM (2020). Serum chemistry and hematology changes in neonatal stock-type foals during the first 72 hours of life. *J. Equine Veterinary Science* 84:102855. doi: 10.1016/j.jevs.2019.102855.

Hobbs KJ, **Johnson PJ**, Scharf ME, Cross DT, Wallace LL. (2021) Use of a Jugular Vein Model for the Instruction of Equine Intravenous Catheter Placement by Third- and Fourth-Year Veterinary Students. *Equine Veterinary Education J*.33(5), 249-254. <https://doi.org/10.1111/eve.13260>

McCarthy M, Townsend K, **Johnson PJ**, LaCarrubba A, Voelkl D, Volkmann D. (2020) Occurrence of a vaginal septum in a foal diagnosed with pyometra. *J. Equine Vet. Educ.* <https://doi.org/10.1111/eve.13272>

Massat MJ, **Johnson PJ**, Wiedmeyer CE. (2019) Performance of two tests for measurement of serum and plasma fructosamine in dogs. *Intern J Appl Res Vet Med* 17(2), 11-21.

Martin LM, **Johnson PJ**, Amorim JR, DeClue AE. (2020) Effects of orally administered resveratrol on TNF, IL-1 β , leukocyte phagocytic activity and oxidative burst function in horses: A prospective, randomized, double-blinded, placebo-controlled study. *International Journal of Molecular Sciences*, 21(4):1453. doi: 10.3390/ijms21041453.

Townsend KS, **Johnson PJ**, LaCarrubba A, Leach SB, Zinn M, Kim DY, Johnson GC. (2022) Pathology in Practice: Vegetative Endocarditis affecting the Tricuspid Valve of a Quarter Horse Mare. *J. Am. Vet. Med. Assoc.* 259(S2), 1-4. DOI: <https://doi.org/10.2460/javma.19.07.0319>

Neto ACP, Alves GES, Leme FOP, de Carvalho AM, Leise BS, **Johnson PJ**, Faleiros RR. (2021) Apoptosis in epithelial cells and its correlation with leukocyte accumulation in lamellar tissue from horses subjected to experimental sepsis-associated laminitis. *Res Vet Sci*, 136, 318-323.

Middleton JM, Hess WJ, **Johnson PJ**, Getchell R, Scarfe AD, Starling DE. (2021) Appropriate use of molecular diagnostic tools in veterinary clinical and regulatory practice. *J. Am. Vet. Med. Assoc.* 2021 Sep 15;259(6):590-595. doi: 10.2460/javma.259.6.590.

Johnson PJ, Townsend KS, Martin LM. (2021) Beyond conidiobolomycosis – the other ‘zygomycoses’. *Equine Vet. Educ. J.* 33(12), 629-33. doi: 10.1111/eve.13392.

Ericsson AC, **Johnson PJ**, Gieche L, Zobrist C, Bucy K, Townsend KS, Martin LM, LaCarrubba A. The influence of diet change and oral metformin on blood glucose regulation and the fecal microbiota of healthy horses. *Animals* 2021, 11(4), 976; <https://doi.org/10.3390/ani11040976>

Means, K., Townsend KS, **Johnson PJ**. (2021) Multicavitary septic effusions associated with Actinobacillosis in an adult Tennessee Walking Horse with weight loss. *Equine Veterinary Education J*, 2021. 34(1), 60-66.

Publications in Refereed Journals (continued):

Townsend KS, **Johnson PJ**, LaCarrubba AM, Martin LM, Ericsson AC. (2021) Exodontia-associated bacteremia in horses characterized by next generation sequencing. *Sci Rep* **11**, 6314. <https://doi.org/10.1038/s41598-021-85484-z>

Hobbs KJ, **Johnson PJ**, Wiedmeyer CE, Schultz L, Foote CA. (2022) Plasma syndecan-1 concentration as a biomarker for endothelial glycocalyx degradation in septic adult horses. *Equine Veterinary Journal* doi: 10.1111/evj.13862. Online ahead of print

Hayden LR, Stoker AM, **Johnson PJ**, McCracken MJ. (2022) The use of a hyperosmolar irrigation solution is safe in an equine stifle joint model but does not reduce joint swelling. *Am J Vet Res* **83**(10): doi: 10.2460/ajvr.22.04.0074.

Carlson A, **Johnson PJ**, Lei A, Keegan KG. (2022) Anti-nociceptive efficacy of the soluble epoxide hydrolase inhibitor t-TUCB in horses with mechanically induced lameness. *Res Vet Sci* 152:504-509. doi: 10.1016/j.rvsc.2022.09.017.

Townsend KS, Klopper A, Hamad A, Bunyak F, **Johnson P**, Lever T. (2022) Developing a tool to detect and track laryngeal dysfunction in horses. *Journal of Veterinary Internal Medicine* **36**(6), 2399. doi:10.1111/jvim.16541.

Nelson SR, **Johnson PJ**, Kim DY, Schultz LG. (2022) Distribution of GLP-1 secreting L cells in the equine gastrointestinal tract. *J Equine Vet Science*. Under review.

Townsend KS, **Johnson PJ**, Kuroki K. (2023) Head and neck squamous cell carcinoma with heterotopic ossification, lymphovascular invasion, and nodal and pulmonary metastases in a 23-year-old Morgan gelding. *Can Vet J*. 2023 Jul;64(7):627-632.

Townsend KS, **Johnson PJ**. (2023) Primary hyperparathyroidism in horses: What can we learn from human medicine? *J Equine Vet Educ* **35**(1), <https://doi.org/10.1111/eve.13768>.

Townsend KS, **Johnson PJ**, Donnelly LL, LaCarrubba AM, Lattimer JC, Havis B, Springer NL, Kim DY. (2023) Concurrent chronic lymphocytic leukemia and primary hyperparathyroidism in a mule. *J Vet Intern Med*. 2023 May-Jun; 37(3): 1250–1255.

Byfield R, Miller M, Xie Y, Crosby M, Schiltz P, **Johnson PJ**, Lin J. An explainable echo state network trained from photoplethysmography signals for equine life stage prediction. *Neural Comput & Applic*. 2024;36(32):20055–20066. doi:10.1007/s00521-024-10285-0

Ford T, McAdams ZL, Townsend KS, Martin LM, **Johnson PJ**, Ericsson AC. (2023) Effect of Sugar Beet Pulp on the Composition and Predicted Function of Equine Fecal Microbiota. *Biology* 12(9), 1254; <https://doi.org/10.3390/biology12091254> [article was highlighted on the front page of that journal].

Guedes JRB, do Prado Vendruscolo C, Tokawa PKA, De Mattos Carvalho A, **Johnson PJ**, Faleiros RR. Detection of thoracolumbar spine injuries in horses with chronic laminitis using a novel clinical assessment protocol and ultrasonographic examination. *Animals* 2024, 14(9), 1364; <https://doi.org/10.3390/ani14091364>

Johnson PJ. Equine metabolic syndrome: part 1. *UK-Vet Equine*. 2024;8(3):121-129. <https://doi.org/10.12968/ukve.2024.8.3.121>

Johnson PJ. Equine metabolic syndrome: part 2. *UK-Vet Equine*. 2024;8(4):170-175. <https://doi.org/10.12968/ukve.2024.8.4.170>

Carpenter AL, Townsend KS, **Johnson PJ**, Kim DY. Disseminated pleomorphic rhabdomyosarcoma in a horse. *J Vet Diagn Invest* 2025;37(1):203-7.

Miller M, Byfield R, Crosby M, Schiltz P, **Johnson PJ**, Lin J. A wearable photoplethysmography sensor for non-invasive equine heart rate monitoring. *Smart Agricultural Technology* 5, 100264 (2023).

Byfield R, Miller M, Xie Y, Crosby M, Schiltz P, **Johnson PJ**, Lin J. Equine life stage classification from photoplethysmography waves by an explainable echo state network. *Neural Computing and Applications*, 36(32), 20055-20066 (2024). [doi.org/10.2139/ssrn.4561261]

Martin LM, Balaa GS, Hamm LR, Dillow TJ, Townsend KS, Meldi PJ, Schultz LG, **Johnson PJ**. Use of FreeStyle Libre in the management of type 2 diabetes mellitus in a Missouri Fox Trotter gelding. *Equine Vet. Educ*. 2024 (EVE-CRR-2024-168), accepted pending revisions.

A novel dataset of 2,362 equine fecal microbiomes from veterinary teaching hospital on three continents reveals effects of geography and disease. *The ISME Journal*. Submitted December 2024. [ISMEJ-D-25-00641]

Smith MZ, York M, Townsend KS, Martin LM, Gull T, Coghill LM, Ericsson AC, **Johnson PJ**. Effects of orally administered clioquinol on the fecal microbiome of horses. *J Vet Intern Med*. 2025;39:e17276. doi.org/10.1111/jvim.17276

Johnson PJ, Townsend KS. Primary hyperparathyroidism in horses. *UK-Vet Equine*, accepted January 2025.

Banse HE, DiGrassie W, **Johnson PJ**, Kelly C, Hooper SE. Outcomes of veterinary student service-learning experiences indicate opportunities for development of student competence across domains in the Competency-based Veterinary Education (CBVE®) Model" *J. Am. Vet. Med. Assoc*. Under review. [tracking number JAVMA-25-10-0675].

Publications in Refereed Journals (continued):

A novel dataset of 2,362 equine fecal microbiomes from veterinary teaching hospitals across three countries reveals effects of geography and disease. *Animal Microbiome* DOI: 10.1101/2024.10.21.619412

Porter MM, Davis DJ, McAdams ZL, Townsend KS, Martin LM, Wilhite C, **Johnson PJ**, Ericsson AC. Alterations in the microbiome of horses affected with fecal water syndrome. *Vet Sci.* 2025;12(8):724. doi: 10.3390/vetsci12080724

Textbook Contributions:

Johnson, PJ. Equine Colic. In: Horse Industry Handbook. A guide to equine care and management. American Youth Horse Council, Lexington, KY. 635(1)-635(5), 1994.

Textbook Contributions (continued):

Johnson, PJ. Peripheral Cushingoid Syndrome ("Equine Metabolic Syndrome"). In: Robinson, NE (ed), Current Therapy in Equine Medicine, 5th edition (2002), WB Saunders, Co, Philadelphia, PA, pp 812-816.

Contributing author: "**Clinical Dissection Guide for Large Animals**" second edition, Editors, Gheorghe M. Constantinescu, Ileana A. Constantinescu, Iowa State Press, 2002

The Veterinary Clinics of North America: Equine Practice. **Endocrinology** Guest Editors: Messer, Nat T. & **Johnson, P.J.** WB Saunders & Co, Philadelphia, PA, August 2002, 18:2

Johnson PJ, Contributing Author, In: Constantinescu GM & Constantinescu IA, Clinical Dissection Guide for Large Animals. Horse and Large Ruminants, 2nd edn. Iowa State Press, Blackwell Publishing, 2003

Johnson PJ. (2014) Dyslipidemias. In: Robinson NE and Sprayberry KA (eds) Robinson's Current Therapy In Equine Medicine, 7th edn. Saunders, Elsevier. pp 578-581.

Equine Endocrinology: recent and future directions

Equine Endocrinology Virtual Issue, Wiley Online Library

Guest Editors: Frank N & **Johnson PJ**

Equine Veterinary Journal [Impact Factor: 2.286

ISI Journal Citation Reports © Ranking: 2012: 8/143 (Veterinary Sciences)]

[[http://onlinelibrary.wiley.com/journal/10.1001/\(ISSN\)2042-3306/homepage/equine_endocrinology_virtual_issue.htm](http://onlinelibrary.wiley.com/journal/10.1001/(ISSN)2042-3306/homepage/equine_endocrinology_virtual_issue.htm)]

Johnson PJ (contributing author). McAuliffe SB (ed). Knottenbelt and Pascoe's Color Atlas of Diseases and Disorders of the Horse. Saunders, Elsevier, 2014.

Johnson PJ. (2016) Endocrine and Metabolic Dysregulation in Laminitis: Role of Corticosteroids. In: Belknap JK and Geor RJ, eds., Equine Laminitis, John Wiley and Sons (Publishers), pp 141-148.

Johnson PJ. (2016) Endocrine and Metabolic Dysregulation in Laminitis: Role of Pituitary Dysfunction. In: Belknap JK and Geor RJ, eds., Equine Laminitis, John Wiley and Sons (Publishers), pp 134-140.

Johnson PJ. (2016) Laminitis in Pituitary Pars Intermedia Dysfunction. In: Belknap JK and Geor RJ, eds., Equine Laminitis, John Wiley and Sons (Publishers), pp 204-209.

Textbook Contributions (continued):

McFarlane D, **Johnson PJ**, Schott HC. (2016) Pituitary Pars Intermedia Dysfunction. In: Belknap JK and Geor RJ, eds., Equine Laminitis, John Wiley and Sons (Publishers), pp 334-340.

Johnson PJ. (2017) Large Bowel Function. In: Blikslager AT, White NA, Moore JN, & Mair TS. The Equine Acute Abdomen, 3rd edition, John Wiley and Sons (Publishers), pp

Johnson PJ. (2017) Effects of Feeding on Gastrointestinal Function. In: Blikslager AT, White NA, Moore JN, & Mair TS. The Equine Acute Abdomen, 3rd edition, John Wiley and Sons (Publishers), pp

Casteel SW, **Johnson PJ.** (2020) Slaframine toxicosis. In: Lavoie JP (ed) Third Edition of Blackwell's Five-Minute Veterinary Consult EQUINE. Wiley Blackwell. p 695.

Casteel SW, **Johnson PJ.** (2020) Aflatoxicosis. In: Lavoie JP (ed) Third Edition of Blackwell's Five-Minute Veterinary Consult EQUINE. Wiley Blackwell. p 35.

Johnson PJ. Collapse and Sudden Death. In: Smith BP, Van Metre DC, Pusterla N. (eds) Large Animal Internal Medicine (6th edn) Elsevier, St. Louis MO, pp 227 – 235.

Chapter entitled: **Anesthesia management of horses with endocrine diseases.** [Equine Anesthesia and C-Existing Disease, edited by Stuart Clark-Price and Khursheed Mama, Wiley](in preparation)

UNIVERSITY SERVICE:

Committee Appointments:

University

International Affairs Council (1993-1995)
Wakonse Residence Academic Advisor, 1996-1998
MS Committee member (Anna C. Dodds), 1999-MS graduated (Department of Animal Science)
PhD Committee member (Preston R. Buff), 2000-present time (Department of Animal Science)
Elected Representative of the Faculty of the College of Veterinary Medicine on University of Missouri Faculty Council, (2000-2006)
Academic Affairs Committee (University of Missouri) 2000-2001
University of Missouri Program for Excellence in Teaching Advisory Board on Scholarly Teaching, Representative of the College of Veterinary Medicine, 2001-2006
Faculty Affairs Committee (University of Missouri) 2001-2006
Faculty Affairs Committee, Chair (University of Missouri) 2003-2004
Faculty Development Advisory Committee (University of Missouri) 2003-6
University Concerts Committee (University of Missouri) 2003-2006
Grievance Hearing committee member (as needed) 2004-2007
MU Conflict of Interest Committee, 2006-2007
MU Faculty Committee on Tenure, 2005-2009
MU Traffic Appeals Committee, 2012-13
CVM Representative on Campus Faculty Committee on Tenure (2013-2014; 2015-2017; 2018-2019)(2020-2021)
MU Traffic Appeals Committee, 2015-2018
MU COACHE 2016-2017
Campus Recreation Committee (2018-2021)
University Faculty Committee on Tenure 2021-2023
University Faculty Committee on Tenure (alternate member)(2023)
MU Tenure Probation Extension Committee.

College of Veterinary Medicine:

Review committee for selection of ECFVG students: 1992-1995
Curriculum Committee (alternate): 1993-1995
Faculty Honor Code Committee: 1993-1994
Search Committee for Veterinary Clinical Pathologist: 1993-1994
Faculty Policy Committee: 1994-present (chair 1995 -1996)
Graduate Committee (MS), Dr. Cynthia Campbell-Beggs: 1991-1994
Graduate Committee (MS) (chair), Dr. Mollyann Holland: 1993-1995
Graduate Committee (PhD), Dr. Stephen Behan: 1994-1996
Graduate Committee (MS) (chair), Dr. Lorie A. Moore - 1994-1997
Graduate Committee (MS), Dr. Dusty Weaver (Nagy) - 1996-1999
Committee to review essential elements and technical standards for entry into the curriculum:1997
Graduate Committee (PhD), Dr. Christy Loiacono: 1997-1999
Search Committee for Endowed Professor of Veterinary Ophthalmology, 1997-1999
Search Committee for Endowed Professor of Equine Lameness, 1997- 2001
Administrators' Evaluation Committee (alternate), 1998-1999
Search Committee for Graduate Student in VMDL, 1998
Administrators' Evaluation (alternate to Dr. Bonagura) 1998-1999
Continuing Education Committee (1999-present time)
Search Committee for Veterinary Clinical Pathologist (1999-2000)
Search Committee for Veterinary Clinical Pathologist (2000-2002)
Search Committee for Veterinary Pathology resident (2000)
Promotion and Tenure Committee (alternate) (2000-2003)
Course Planning Team: Small Animal Medicine (1999-2000)
Course Planning Team: Equine Medicine and Surgery (1999-present time)
College of Veterinary Medicine Library Steering Committee (2002-2004)
COR Clinician Scientist Research Award Grant Review Committee member, 2004-present time
Clinical Guest Lecture Committee (Niemeyer Lecture Series) (2008-present time)
College Research Space Reallocation Committee (2008)
Faculty Honor Code Committee (2008-2009)(chair)
CVM P&T Committee (at large member, alternate for Dr. Hasser)(term expired 9/30/12)
Faculty Research Grant Committee (2009)
Admissions Committee, member (2011-2013)
Vision 2020 Graduate Study and Research Subcommittee (2011)
MU CVM Promotion and Tenure review Committee (2013-2016, chair in 2015)
NTT Promotion Review Committee (2014-2016)(chair, 2014)
Search Committee, MU CVM Associate Dean for Research (2014)

College of Veterinary Medicine Committee Assignments (continued):

MU CVM Visiting Speakers Committee (2013-present)
MU CVM Tenure Track member of the NTT promotion committee (2014-present)
MU CVM USDA AHFF Grant Review Board (Livestock Health Grant Review Committee) (2014-present)
Search Committee Member, MU CVM VMDL Molecular Diagnostic position (2015-6)
Faculty Policy Committee (2015-2018)
MU CVM Animal Health Formula Funds Review Committee (Chair, Dr. Middleton) (2015-2019)
MU CVM Academic Research Advisory Board (2015-17)
MU CVM Clinician Scientist review board member (2014-16)
MU CVM Admissions Committee (2016 – Sept 30, 2019)
MU CVM NTT Promotion Committee (2016 – Sept 30, 2019)
MU CVM Administrator Evaluation Committee, 2015-2018 (chair)
CVM Research Phi Zeta Oversight Committee (and proposal reviewer), 2017-2019
American Royal Scholarship Program Committee Member (2012-ongoing)
MU CVM Continuing Education Committee (2018-)
MU CVM VMDL Advisory/Oversight Committee, 2014-ongoing
MU CVM Faculty Responsibility Committee (until 6/30/2025)
MU CVM Academic Standards Committee (2019 - ongoing)
MU CVM Research Day judging committee member (2019 - 2022)
MU CVM Strategic Planning Committee (Subcommittee on Graduate Study and Research) (2019 - 2022)
MU CVM Continuing Education Committee (2019 – 2021)
MU CVM Technical Standards Committee (2019 – 2022)
MU CVM AAVMC Holistic Admissions Review Committee (2018)
MU CVM ad hoc committee to undertake preliminary review of DVM program applicants (2022)
MU CVM VMDL Guidance Committee member (Equine representative)(2022)
MU CVM Library Committee (until 9/30/24)
MU CVM Clinical Skills Committee (2024-2025)
MU CVM Administrator Evaluation Committee (2024-2025)
MU CVM Curriculum Review Task Force (2024-2025)
MU CVM Combined teaching/Curriculum Committee (2024-2025)

Department of Veterinary Medicine and Surgery:

Research and Graduate Studies Committee: 1992-2000 (**chair**: 1993 - 2000)
Search Committee for Instructor of Clinical Neurology: 1994-1995
Ad hoc Pedagogical Innovations Committee: 1993
Resident (ACVIM) Committee (chair), Dr. Cynthia Campbell-Beggs: 1991-1994
Colleague Evaluation Committee: 1992-1993
Resident (ACVIM) committee (chair), Dr. Lorie A. Moore: 1994-1997
Intern and Resident Committee, 1994-present
Search Committee for Small Animal Internist: 1994
Resident (ACVIM) committee (chair), Dr. Dawn R Mrad: 1995-1998
Search Committee for Cardiologist, 1995 -1996
Search Committee for Ophthalmologist, 1996-7
Search Committee for Food Animal Clinician, 1997- 1999
Instructional Leader, Equine Medicine and Surgery, (Responsibilities for organizing and supervising the in-clinic training “equine block” (EM&S 642) in the VMTH and for the didactic lecture series (VMS 610V). (1998-present time)
Board of **Instructional Leaders** in the Department of Veterinary Medicine and Surgery, 1999-present time
Search Committee for tenure-track position in veterinary neurology, (1998-2003)
Departmental curriculum committee (**chair**), 1999-2005
ECFVG Committee, 2000 – 2003
Resident (ACVIM) committee (chair), Dr. Laura Kellam: 1998-2001
Resident (ACVIM) committee (chair), Dr. Susann Smith: 2001-2002
Search Committee for Equine Ambulatory clinician, (2000-2002)
Search Committee for Ophthalmologist, 1999-2003
Search Committee for Veterinary Cardiologist, 2000 – 2003
American Royal Veterinary Scholarship Program, 2001-2002 (selection committee member)
Search Committee for Internist (Comparative Medicine program), 2001 – 2004
Ad hoc Committee to write policy for non-regular faculty (chair), 2004-2006
Ad hoc Committee to review and implement improvements regarding NAVLE, 2004-2011
Search Committee for Companion Animal Nutritionist, 2004-2006
Search Committee for Equine Ambulatory faculty position, 2005 – 2006
Promotion and Tenure Committee (2003-2005)(committee chair, 2005)
Incentive committee (CE/ECFVG) 2004-2006
Visiting Speaker Committee (Niemeyer Seminars) 2005-2010 (chair, 2008-12)
Graduate Committee (2007-2010)

Department of Veterinary Medicine and Surgery (continued):

Continuing Education (2007-8)
Junior Faculty Mentoring Committee (2008-2013) [see below for list of mentored faculty]
Departmental Curriculum Committee (2009-2011)(Chair, 2011)
Departmental Graduate Committee, (2009-2011)(Chair, 2011)
Consulting/Conflict of Interest/commitment Committee (2009-2012)
Ad hoc committee to Consulting/C.O.I. Request by colleague (AED)(2012)
VMS faculty search committee – Cardiology (2008-2012)
VMS faculty search committee – CIML (2011-2012)
VMS/VMTH Computer Committee (2012-2015)
VMS Adjunct Faculty committee (2012-2013)(Chair)
VMS Resident and Intern Committee (2012-2015)
VMS Faculty search committee – CIML associate director (2013-2014)
VMS Faculty search committee – Equine medicine and ambulatory (2013-2014)
VMS Website Committee (2014-2017)
Equine Intern Program Director (2014-present)
VMS Mentoring Committee (2014-2018)
VMS Research Committee (2015-2016)
VMS Faculty search committee – Equine medicine and ambulatory (2017-2018)
VMS Faculty search committee – Veterinary Neurology (2017-2019)
VMS Promotion and Tenure Committee (TT)(2017-2020)
VMS Faculty Mentoring Committee (2017-2018)
VMS Medical Records Committee (2017-2020)
Resident (ACVIM-LAIM) Committee (chair), Dr. Lynn (Brockway) Martin: 2015-2018
VMS Biosecurity/Biosafety Committee (2018-2021)
Resident (ACVIM-LAIM) Committee (chair), Dr. Kile Townsend: 2018-2021
VMS Faculty search committee – Veterinary Neurology (2017-2020)
VMS Faculty search committee – Equine Internal Medicine (2019-2020)
VMS Resident and Intern Committee (2019-2022)
VMS Research Committee (2019-2020)
VMS Promotion Committee (NTT)(2019-2023)
VMS Medical Records Committee (Chair)(2019-2021)
VMS Equine Student Foal Team Advisor (ongoing)
VMS Equine Colic Team Advisor (ongoing)
VMS VHC Covid19 pandemic Taskforce (2020-2021)
VMS Biosecurity/Safety Committee (2021-2025)
VMS Faculty Search Committee – Equine Internal Medicine (2022)
VMS Mentoring Committee, Chair (until 2026)
VMS P&T Committee (until 2027)
VMS Antibiotic Stewardship Committee (2023-2024)
VMS Faculty Search Committee – Equine Emergency Position (2023-2024)
VMS Faculty Search Committee – Veterinary Neurology (2023-2025)
VMS Resident (MS) Committee (member), Dr. Alexandra Warren, 2022-2025.

Specialty College Service:

ACVIM General Examination Question Rater (2011-2016)
ECEIM North American Liaison (2014-16)
ACVIM Forum Research Abstract Reviewer (2018-2022)
ACVIM-LAIM Specialty Examination Question Rater (2019)
ACVIM Forum Research Abstract Reviewer (2021-2025)
ACVIM General and Specialty Examination Development Volunteer (subject matter expert for the General Examination; item mapping and question writing) 2023-2024

MU CVM Outreach:

Press release and radio interview (via Jeff D. Sossamon/Tracey Berry): Increased prevalence of *Rhodococcus equi* cases in foals possibly related to climate change. July 13th 2018
Press release (via Jeff D. Sossamon/Tracey Berry): Heartbeat Hero: Atrial fibrillation in horses and in humans (MU College of Veterinary Medicine helps athletic horse recover from irregular heartbeat). July 29th, 2019

Mentorship:

Mentor, Pre-veterinary Medical Scholar: Michelle Adams (1997 - 1998)
Mentor, Pre-veterinary Medical Scholar: Traci Temmen (1997 - 1998)
Mentor, Pre-veterinary Medical Scholar: Christine Burke (1998 – 2002)
Mentor, Pre-veterinary Medical Scholar: Erin Jarvis (1999– 2002)

Mentor, Pre-veterinary Medical Scholar: Jennifer Worsey (2000 – 2002)
Mentor, Pre-veterinary Medical Scholar: Liz Furrer (2000 – 2002)
Mentor, Pre-veterinary Medical Scholar: Emily Gladden (2002)
Mentor, Pre-veterinary Medical Scholar: Ruth Feldkamp (2002)
Mentor, Pre-veterinary Medical Scholar: Leslie Rucker (2003-4)
Mentor, Pre-veterinary Medical Scholar: Erin Geary (2009-12)
Mentor, Pre-veterinary Medical Scholar: Sydney R. Stein (2010-2013)
Mentor, Pre-veterinary Medical Scholar: Amanda N. Eshelman (2013-2017)
Mentor, Pre-veterinary Medical Scholar: Chenoa R Schwenn (2013-2017)
Mentor, Pre-veterinary (High School student): Alexis Hohenshell (2018-2019)
Mentor, Pre-veterinary Medical Scholar: Alexis Hohenshell (2019-2022)
Mentor, Pre-veterinary Medical Scholar: Jeremy Duong (2023-2025)

VRSP DVM Student Research Project Mentorship:

Lynn Brockway, VMIV (2010-2014)
Sarah Pierson, VMI (2011)
Katelyn Miller, VMII (2010)
Jennie Cook, VMI (2011-2013)
Michael Fink, VMIII (2011-2013)
Jon Tomkovitch, VM II (2013-2014)
Liz Schroepffer, VM II (2013-2014)
Shanna Nelson, VM2 (2014-2016)
Alexandra Meyer, VM1 (2014-2016)
Sonja Perry, VM1 (2015-2016)
Hannah Lanter, VM1 (2015-2016)
Sarita Patel, VM2 (2015-2017)
Jerrienne Whittmore, VM1/2 (2015-2017)
Chelsea Zobrist, VM1,2 (2017)
Samantha Shaffer VM1,2 (2018)
Miranda Wallace VM1 (2018)
Andrea Lohr VM1 (2019)
Blanca Chen (Veterinary student in Taiwan) (2020)
Tamara Ford VM1 (2021-2024)
Kexin Fang VM1 (2022 - 2025)
Madison Porter VM1 (2022 - 2025)
Jessica Warwick (2023 - 2025)
Mikaïla Smith VM2 (2023 - 2024)
Lindsey Dutko (2023-2024)
Anika Hawes (2025-2026)

Faculty mentorship:

Dr. Jackie Pearce
Dr. Jill Luther
Dr. Isabelle Masseau
Dr. Aaron Stoker
Dr. Fred Winninger
Dr. Shirley Chu
Dr. Lindsay Donnelly
Dr. Kelly Wiggen
Dr. Anna McManamey
Dr. Jessica Thiele

Post-doctoral fellowship mentorship:

Dr. Amanda Trimble (with Dr. Joanne Kramer) (2018 - 2020)
Dr. Lynn Martin (with Dr. Rajiv Mohan) (2018 - 2020)
Dr. Kile S. Townsend (2021-2022)

Peer teaching reviews:

Dr. Leah Cohn (2024)
Dr. Owen Skinner (2024)
Dr. Martha Scharf (2024)
Dr. Lindsey Hayden (2024)

Last update
ed: 5/4/2025