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Education:

1995: D.V.M., Veterinary Sciences, National Veterinary School of Alfort, France

1996-1999: D.V.M., Resident Equine Medicine, Ohio State University, Columbus, OH

2000: Diplomate ACVIM, Large Animal Internal Medicine, American College of Veterinary Internal Medicine (ACVIM), USA

2003: Ph.D., Comparative Exercise Physiology, Ohio State University, Columbus, OH

2003-2005: Post Doctoral Fellowship, Ohio State University, Columbus, OH

2006: Diplomate, European College of Equine Internal Medicine

Academic Appointments:

1996-1999: Resident in Equine Medicine. College of Veterinary Medicine. The Ohio State University

1999-2000: Clinical Instructor. Equine Medicine. OSU College of Veterinary Medicine, Columbus.

2000-2002: Graduate Research Associate. Equine Exercise Physiology. Department of Veterinary Clinical Sciences. College of Veterinary Medicine. The Ohio State University.

2003-2005: Post Doctoral Research Fellow. College of Pharmacy. The Ohio State University.

2005-2007: Senior Research Associate. College of Pharmacy. The Ohio State University.

2007-2012: Research Assistant Professor. Graduate Faculty. College of Pharmacy. The Ohio State University.

2007-2012: Investigator, Davis Heart & Lung Research Institute, The Ohio State University.

2007-2012: Adjunct Assistant Professor, Department of Veterinary Clinical Sciences, College of Veterinary Medicine, Ohio State University

2012-present: Associate Professor, Department of Physiological Sciences, Center for Veterinary Health Sciences, Oklahoma State University, Stillwater, OK. Graduate Faculty.

Research Interests:

Metabolism, Diabetes, Insulin resistance, Striated muscle, Comparative medicine

Awards and Honors

1995: Laureate of the National Veterinary School of Alfort, and Laureate of the University of Medicine, Creteil, France.

1995: Doctoral Veterinary Thesis Award: Silver Medal, France.

2000: Second Place Award at the 14th Annual Edward Hayes Graduate Research Competition. The Ohio State University (OSU), USA.

2000: National Society of Phi Kappa Phi (Honor Society, Graduate School).

2000: Distinguished Research Award for an outstanding presentation at the National ACVIM Veterinary Medical Forum, Seattle, USA.

2002: First Place Award at the 16th Annual Edward Hayes Graduate Research Competition. The Ohio State University.

2002: Graduate Resident Award for Excellence in Clinical Research. OSU Department of Veterinary Clinical Sciences.

2003: First Place Award in Poster Competition at Research Day. OSU College of Veterinary Medicine.

2004: American Heart Association, Ohio Valley Affiliate, Post-Doctoral Fellowship Award.

2006: National Scientific Development Grant Award, American Heart Association.

2007: Scientific Research Career Development Award (K01), National Institute of Health.

2007: First Place Award for outstanding achievement in the Research Poster Competition, OSU Heart & Lung Research Institute Research Retreat.

2007: Second Place Award for outstanding achievement in the Research Oral Competition, OSU Heart & Lung Research Institute Research Retreat.

2011: Outstanding Research Mentor Award of the Year, The Ohio State University.

Other Professional Experiences and Memberships:

Editorial board member

2012-present: Conference Papers in Veterinary Science

2011-present: Journal of Drug Metabolism & Toxicology.

Ad-Hoc Reviewer:

2012-present: Cardiovascular Diabetology

2010-present: American Journal of Physiology

2012-present: The Veterinary Journal

2007-present: The annals of Pharmacotherapy

2005-present: American Journal of Veterinary Research

2002-present: Equine Veterinary Journal

2007-present: Equine Veterinary Science

2009-present: Experimental Physiology

External Research Support:

Current:

2012-2014: Animal Health Foundation, "Investigation of glucose regulation and insulin signaling pathways in endocrinopathic laminitis.", Role: P.I.,

Past:

2007-2013: NIH/NCRR, "Impaired myocardial glucose transport during diabetes: the novel role of calcium.", Role: P.I.,

2010-2012: United States Equestrian Federation, "Investigation of glucose transport pathways in horses with insulin resistance". Role: P.I.

2008-2011: Grant-in-aid; American Heart Association, “Novel mechanisms of diastolic dysfunction in the diabetic myocardium”. Role: P.I.,

2006-2011: National Scientific Development grant; AHA, “Common mechanisms of arrhythmia and diastolic dysfunction during diabetes”.

Selected Publications (from a total of 38 manuscripts; *senior/corresponding author):

1. de Laat MA, Clement CK, McGowan CM, Sillence MN, Pollitt CC, **Lacombe VA***. Toll-like receptor and pro-inflammatory cytokine expression during prolonged hyperinsulinaemia in horses: Implications for laminitis. *Vet Immunol Immunopathol.* 157(1-2):78-86, 2014.
2. **Lacombe VA**. Expression and Regulation of Facilitative Glucose Transporters in Equine Insulin-Sensitive Tissue: From Physiology to Pathology. *ISRN Veterinary Science.* 2014:1-15, 2014.
3. Waller A.P, George M., Kalyanasundaram A, Kang C, Periasamy M, Hu K, **Lacombe VA***. GLUT12 functions as a basal and insulin-independent glucose transporter in the heart. *Biochimica & Biophysica Acta- Molecular basis of diseases.* 1832(1):121-7, 2013.
4. Kalyanasundaram A, **Lacombe VA**, Belevych AE, Brunello L, Carnes CA, Janssen PM, Knollmann BC, Periasamy M, Gyorke S. Up-regulation of sarcoplasmic reticulum Ca²⁺ uptake leads to cardiac hypertrophy, contractile dysfunction and early mortality in mice deficient in CASQ2. *Cardiovasc Res.* 98(2):297-306, 2013.
5. Kranstuber AL, del Rio C., Biesiadecki BJ, Hamlin RL, Ottobre J, Gyorke S, **Lacombe V.A.*** Advanced glycation end product cross-link breaker attenuates diabetes-induced cardiac dysfunction by improving sarcoplasmic reticulum calcium handling. *Frontiers-Integrative Physiology.* 3 (292): 1-10, 2012. Epub July 2012.
6. Waller AP, Huettner L, Kohler K, and **Lacombe VA***. Novel link between inflammation and impaired glucose transport during equine insulin resistance. *Veterinary Immunology and Immunopathology.* 149(3-4):208-15, 2012.
7. Kong MC, Nahata M, MS, **Lacombe VA**, Seiber EE, Balkrishnan R. Racial Differences in perinatal depression among HIV-infected women. *Health Outcomes Research in Medicine,* 27(9):1159-64, 2012.
8. **Lacombe VA***, Mayes M, Mosseri S, Reed SM, Fenner W. Epilepsy in horses: etiologic classification and predictive factors. *Equine Veterinary J,* 44(6):646-51, 2012 .
9. Kong MC, Nahata M, MS, **Lacombe VA**, Seiber EE, Balkrishnan R. Association Between Race, Depression, and Antiretroviral Therapy Adherence in a Low-Income Population with HIV Infection. *Journal of General Internal Medicine,* 2012 Apr 17 [Epub ahead of print].
10. **Lacombe VA***. Glucose Metabolism in Insulin-Sensitive Tissue: from Health to Disease. *Journal of Equine Veterinary Sciences.* 31: 578-581, 2011. –
11. Ware B, Bevier M, Nishijima Y, Rogers S, Carnes CA, **Lacombe VA***. Chronic heart failure selectively induces regional heterogeneity of insulin-responsive glucose transporters. *American Journal of Physiology-Regul. Integrat. Comp. Phys.* 301(5):R1300-6, 2011. –
12. Kalyanasundaram, A; Viatchenko-Karpinski, S; Belevych A, **Lacombe VA**; Seok Hwang H; Knollman BC, Gyorke S, Periasamy M. Functional consequences of stably expressing a mutant

calsequestrin (CASQ2D307H) in the casq2 null background. American Journal of Physiology - Heart and Circulatory Physiology. 301(5):R1300-6, 2011.

13. Waller AP, Kohler K, Burns TA, Mudge MC, Belknap JK, **Lacombe VA***. Naturally-occurring compensated insulin resistance selectively alters glucose transporters in visceral and subcutaneous adipose tissue without change in AS160 activation. Biochimica & Biophysica Acta-Molecular basis of diseases. 1812(9):1098-103, 2011.
14. Waller AP, Burns TA, Mudge M, Belknap J. and **Lacombe VA***. Insulin resistance selectively alters cell surface glucose transporters, but not their total protein expression, in equine skeletal muscle. Journal of Veterinary Internal Medicine, 25: 315–321, 2011.
15. Wu J, Seiber E, **Lacombe VA**, Nahata MC, Balkrishnan R. Medical Utilization and Costs Associated with Statin Adherence in Medicaid Enrollees with Type 2 Diabetes (March). The Annals of Pharmacotherapy. 45(3):342-9, 2011.
16. Wu J, Seiber E, **Lacombe VA**, Nahata MC, Balkrishnan R. Predictors of Statin Adherence in Medicaid Patients with Type 2 Diabetes and Comorbid Hyperlipidemia. Obesity and Metabolism, 6(4): 111-116, 2011.
17. **Lacombe VA***, Robinson C, Reed S. Diagnostic utility of computed tomography of the head in horses with intracranial diseases. Equine Vet J, 42 (5) 393-399, 2010.