Scott S. Kemp, PhD, MBA
9353 Wellington Park Cir
Tampa, FL 33647, USA
Phone: (913) 302-6026
scottskemp@gmail.com

EDUCATION

Ph.D. **University of South Florida**, Tampa, FL 2017-2022
Biomedical Sciences, Concentration in Cardiovascular Biology

M.S. **University of Missouri**, Columbia, MO 2015-2017
Medical Pharmacology and Physiology

M.B.A. **Baker University**, Baldwin, KS 2013-2015
Business Administration

B.A. **University of Kansas**, Lawrence KS 2005-2009
Biology

SCIENTIFIC TRAINING

2017-2022 **Graduate Student**, University of South Florida, Tampa, FL
Mentor: George E. Davis, M.D., Ph.D. Department of Molecular Pharmacology and Physiology

2015-2017 **Graduate Student**, University of Missouri, Columbia, MO
Mentor: Virginia Huxley, Ph.D., Department of Medical Pharmacology and Physiology

2009-2010 **Undergraduate Research Technician - Entomology**, University of Kansas, Lawrence, KS
Mentor: Deborah Smith, Ph.D., Department of Ecology and Evolutionary Biology

EMPLOYMENT

2022-Present Innovation Associate, Office of Innovation (Technology Transfer Office), Moffitt Cancer Center, Tampa, FL

2017-2022 Graduate Student: Graduate Research Assistant, University of Florida South, Tampa, FL

2015-2017 Graduate Student: Graduate Research and Graduate Teaching Assistant, University of Missouri, Columbia, MO

2014-2015 Support Analyst, Cerner Corp., Kansas City, KS

2010-2014 Confirmation Chemist, Clinical Reference Laboratory, Inc., Lenexa, KS

2010 Legal Assistant, Wagstaff & Cartmell, LLP, Kansas City, MO

AWARDS, HONORS, NAMED LECTURES & FELLOWSHIPS

2017 Invited Speaker – *North American Vascular Biology Organization (NAVBO)*, Monterey, CA
2009 KU Book Award
2009 Gould Undergraduate Research Award

TEACHING

2015-2018 Undergraduate Physiology Lab

PUBLICATIONS – Peer reviewed (reverse chronological)

1. **Kemp, S. S.**, Penn, M. R., Koller, G. M., Griffin, C.T., Davis, G. E. (2022) Proinflammatory mediators, TNFα, IFNγ, and thrombin, directly induce lymphatic capillary tube regression. In Press.

2. Davis, G. E., **Kemp, S. S.** (2022). Extracellular Matrix Regulation of Vascular Morphogenesis, Maturation, and Stabilization. *Cold Spring Harbor Laboratory Press.* In press.

3. Sun, Z., **Kemp, S. S.**, Lin, P. K., Aguera, K. N., & Davis, G. E. (2021). Endothelial k-RasV12 Expression Induces Capillary Deficiency Attributable to Marked Tube Network Expansion Coupled to Reduced Pericytes and Basement Membranes. *Arteriosclerosis, thrombosis, and vascular biology*, ATVBAHA-121.

4. Lin, P. K., Salvador, J., Xie, J., Aguera, K. N., Koller, G. M., **Kemp, S. S**., ... & Davis, G. E. (2021). Selective and marked blockade of endothelial sprouting behavior using paclitaxel and related pharmacologic agents. *The American Journal of Pathology*.

5. Bowers, S. L., **Kemp, S. S**., Aguera, K. N., Koller, G. M., Forgy, J. C., & Davis, G. E. (2020). Defining an upstream VEGF (vascular endothelial growth factor) priming signature for downstream factor-induced endothelial cell-pericyte tube network coassembly. *Arteriosclerosis, Thrombosis, and Vascular Biology*, *40*(12), 2891-2909.

6. **Kemp, S. S.**, Aguera, K. N., Cha, B., & Davis, G. E. (2020). Defining endothelial cell-derived factors that promote pericyte recruitment and capillary network assembly. *Arteriosclerosis, Thrombosis, and Vascular Biology*, *40*(11), 2632-2648.

7. Koller, G. M., Schafer, C., **Kemp, S. S**., Aguera, K. N., Lin, P. K., Forgy, J. C., ... & Davis, G. E. (2020). Proinflammatory mediators, IL (Interleukin)-1β, TNF (tumor necrosis factor) α, and thrombin directly induce capillary tube regression. *Arteriosclerosis, thrombosis, and vascular biology*, *40*(2), 365-377.

8. Huxley, V. H., **Kemp, S. S.**, Schramm, C., Sieveking, S., Bingaman, S., Yu, Y., ... & Wang, J. (2018). Sex differences influencing micro-and macrovascular endothelial phenotype in vitro. *The Journal of physiology*, *596*(17), 3929-3949.

9. Huxley, V. H., & **Kemp, S. S.** (2018). Sex-specific characteristics of the microcirculation. *Sex-specific analysis of cardiovascular function*, 307-328.

PROFESSIONAL SOCIETY MEMBERSHIP

2017-2021 North American Vascular Biology Organization (NAVBO)

ABSTRACTS

A1. Kemp S.S, Schramm C., Sieveking S., Huxley V.. “Genomic sex influences basal endothelial phenotype.” *23rd Annual Cardiovascular Day, 2016.*

A2. Kemp S.S, Schramm C., Sieveking S., Huxley V.. “Genomic sex influences basal vascular cell phenotype as inferred from protein expression.” *Research Trainee Forum, 2016.*

A3. Kemp S.S, Schramm C., Sieveking S., Huxley V.. “Endothelial Cell Barrier Protein Expression Differs by Organ and Sex.” *Experimental Biology, 2017.*

A4. Kemp S.S, Schramm C., Sieveking S., Huxley V.. “Endothelial cell heterogeneity by organ and sex: focus on barrier constituents and hormone receptors.” *24th Annual Cardiovascular Day, 2017.*

A5. Kemp S.S, Schramm C., Sieveking S., Huxley V.. “Endothelial phenotype differs by both sex and vessel function (conduit vs. exchange).” *Master’s Thesis, 2017.*

A6. Kemp S.S, Davis G.E.. “Endothelial cell-derived factors controlling pericyte invasion and endothelial-pericyte tube co-assembly.” *Research Trainee Day, 2017.*

A7. Kemp S.S, Davis G.E.. “Endothelial cell-derived factors controlling pericyte invasion and endothelial-pericyte tube co-assembly.” *NAVBO, 2017*

A8. Kemp S.S, Davis G.E.. Endothelial cell-derived factors stimulating pericyte invasion and endothelial-pericyte tube co-assembly.” *25th Annual Cardiovascular Day, 2018.*

A9. Kemp S.S, Davis G.E.. Defining EC-derived factors that promote pericyte recruitment and tube maturation during capillary tube network formation.” *NAVBO, 2019.*

POSTER PRESENTATIONS

Scott S. Kemp, Christine Schramm, Steve, Sieveking, Virginia Huxley. “Genomic sex influences basal endothelial phenotype.” *23rd Annual Cardiovascular Day, 2016.*

Scott S. Kemp, Christine Schramm, Steve, Sieveking, Virginia Huxley. “Endothelial cell heterogeneity by organ and sex: focus on barrier constituents and hormone receptors.” *24th Annual Cardiovascular Day, 2017.*

Scott S. Kemp, Christine Schramm, Steve, Sieveking, Virginia Huxley. “Endothelial Cell Barrier Protein Expression Differs by Organ and Sex (in that order).” *Experimental Biology, 2017.*

Scott S. Kemp, George E Davis. “Endothelial cell-derived factors stimulating pericyte invasion and endothelial-pericyte tube co-assembly.” *25th Annual Cardiovascular Day, 2018.*

Scott S. Kemp, George E Davis. “Defining EC-derived factors that promote pericyte recruitment and tube maturation during capillary tube network formation.” *NAVBO, 2019.*

Scott S. Kemp, George E Davis. “Defining EC-derived factors that promote pericyte recruitment and tube maturation during capillary tube network assembly.” *Research Day, 2020.*

ORAL PRESENTATIONS

Kemp S.S, Schramm C., Sieveking S., Huxley V.. “Genomic sex influences basal vascular cell phenotype as inferred from protein expression.” *Research Trainee Forum, 2017.*

Kemp S.S, Schramm C., Sieveking S., Huxley V.. “Endothelial phenotype differs by both sex and vessel function (conduit vs. exchange).” *Master’s Thesis, 2017.*

Kemp S.S, Davis G.E.. “Endothelial cell-derived factors controlling pericyte invasion and endothelial-pericyte tube co-assembly.” *Research Trainee Day, 2017.*

Kemp S.S, Davis G.E.. “Endothelial cell-derived factors controlling pericyte invasion and endothelial-pericyte tube co-assembly.” *NAVBO, 2017.*

Kemp S.S, Davis G.E.. “Defining endothelial factors that stimulate pericyte recruitment during capillary assembly.” *Work In Progress, 2017.*

Kemp S.S, Davis G.E.. “Regulation of endothelial cell-pericyte interaction during capillary assembly and pro-fibrotic consequences of pericyte dysfunction following pro-inflammatory mediator-induced capillary regression.” *Comprehensive Qualifying Examination, 2020.*

Kemp S.S, Davis G.E.. “Defining proinflammatory mediators that induce lymphatic capillary regression.” *MPP Research Forum, 2021.*

Kemp S.S, Davis G.E.. “Defining and Modeling Pericyte-Induced Capillary Network Assembly, Capillary Regression Preceding Pericyte-Stimulated Fibrosis, and Lymphatic Capillary Regression.” *Dissertation Defense, 2022.*