**CURRICULUM VITAE**



**Name Liz Simon**

**Current Title:** Assistant Professor, Physiology

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**Education:**

**Undergraduate:** 1991-1997: Bachelor of Veterinary Sciences and Animal Husbandry (**BVSc&A.H),** Kerala Agricultural University, India.

**Graduate/Medical** 1997-1999: Master of Veterinary Sciences (**MVSc),** Endocrine Physiology. Kerala Agricultural University, India.

2001-2005: **Ph.D.,** Endocrine Physiology. Tamilnadu Veterinary and Animal Sciences University, Chennai, India.

**Post-Doctoral Fellowships** 2006-2010: Reproductive Physiology/Stem Cell biology.College of Veterinary Medicine, University of Illinois at Urbana Champaign

**Academic, Professional, and Research Appointments:**

2010-2013: **Assistant Professor**, Department of Biomedical Sciences, College of Veterinary Medicine, Nursing and Allied Health (CVMNAH), Tuskegee University, AL.

2012-2013: **Adjunct faculty (Assistant Professor),** Department of Pathology, School of Medicine, University of Alabama at Birmingham, AL.

2013- 2016: **Assistant Professor-Research**, Department of Physiology, School of Medicine, Louisiana State University Health Sciences Center, New Orleans, LA

2016-Present: **Assistant Professor**, Department of Physiology, School of Medicine, Louisiana State University Health Sciences Center, New Orleans, LA

**Membership in Professional Organizations:**

American Physiological Society- Member

Research Society on Alcoholism - Member

Association of Women in Science – Member

**Awards and Honors:**

1991-1997: Merit Scholarship for 5 years of BVSc & AH based on GPA, Kerala Agricultural University.

1997: K. V. Asokan Trust Award for the **best student of the BVSc & AH class of 1997**.

1997-1999: **Junior Research Fellowship,** Kerala Agricultural University for Master’s Program.

1999: Ranked **first in the Master’s Program** of the College of Veterinary and Animal Sciences, Kerala, India.

2001-2005: **Senior Research Fellowship,** Ph.D., Indian Council of Agricultural Research (ICAR), Government of India.

2007-2008: **Billie A. Field Postdoctoral Fellowship**, University of Illinois at Urbana-Champaign, IL.

2007: **Constance Campbell Award** for oral presentation at the 29th Annual Mini symposium in Reproductive Biology conducted by Center for Reproductive Sciences, Northwestern University, Evanston, IL, October, 2007.

2008: **Phi Zeta Research/Literary Award (First place).** Program of the Phi Zeta Research Day, College of Veterinary Medicine, University of Illinois at Urbana-Champaign, IL, March, 2008.

2009: **NIH travel Award** to the Annual Conference of the American Society of Andrology

2009: **NIH travel Award** to the Annual Conference of the Endocrine Society

2009: **IGB Fellows Symposium Award (First place for poster).** Program of the 2009 Institute for Genomic Biology Fellows Symposium, University of Illinois at Urbana-Champaign, April, 2009.

2011-2012: **Health Disparity Research Training Program (HDRTP) Scholar** coordinated by the Minority Health & Health Disparities Research Center, University of Alabama at Birmingham.

2012: **Outstanding Faculty Performance Award for Research,** College of Veterinary Medicine and Allied Health, Tuskegee University, Alabama.

2015: **Judy A. Spitzer, PhD, Excellence in Research and Mentoring award**, Department of Physiology, LSUHSC New Orleans.

2018: **Faculty Assembly Outstanding Accomplishments by a Junior Faculty Member**, School of Medicine, LSUHSC New Orleans

**TEACHING EXPERIENCE AND RESPONSIBILITIES**

**Curriculum Development/Implementation**

**Member -** Curriculum development committee of the DVM program at the College of Veterinary Medicine, University of Illinois at Urbana Champaign. The committee was responsible for redesigning the basic sciences curriculum for the 1st year DVM program.

**Member** – Committee for initiation of a graduate program “One Medicine” at Tuskegee University, 2011-2013. The program was to offer opportunities for underserved minorities to obtain a Ph.D. degree. The program blends the “one-medicine-one-health” concept and the ethical principles and approaches that are required to protect underserved communities

**Formal Course Responsibilities**

1999-2000: **Instructor** Didactic lectures in reproductive physiology to 4th year veterinary students, College of Veterinary Animal Sciences, Kerala, India. 8/yr, 2 yrs.

2006-2010: **Instructor** VM 602 and VM 603 (Structure and function I- Physiology and Anatomy) to 1st year DVM students at University of Illinois at Urbana Champaign. These courses include Veterinary Physiology, Anatomy and Histology. Didactic lectures in general physiology and cell signaling 4/yr 2 yrs and gross anatomy laboratory 6h/wk 1 year.

2008 **Instructor** in Advanced Endocrinology Seminar Series for graduate students, University of Illinois at Urbana-Champaign. 1/yr, 1 year

2010-2013: **Course Director**, Veterinary Physiology PHSI 0340, 0341G, PHSI 0441 PHSI 0441G to DVM and graduate students at the College of Veterinary Medicine, Tuskegee University. Didactic lectures in General Physiology, cardiovascular, GI and Neurophysiology 59/yr, 3yrs, Animal labs for cardiovascular physiology and simulation labs for respiratory physiology 4labs/yr, 3yrs

Didactic lectures in Gastrointestinal Microanatomy (ANAT0310), Spring 2012. 2/yr 2 yrs

2013-2014: **Instructor** INTER 132, PHTH 7122 (Graduate students, Physician Assistants and Physical therapists)- Endocrine physiology (10 h lecture/yr) HLSC 3410 (Nursing) – Disorders of the vascular system (1 h lecture/yr) DHY3202 (Dental hygiene) – Cardiovascular physiology (4 h lecture/yr)

2014-2015: **Instructor** INTER 132, PHTH 7122 (Graduate students, Physician Assistants and Physical therapists)- Endocrine physiology (10 h/yr lecture) HLSC 3410 (Nursing) – Disorders of the vascular system and musculoskeletal disorders (3 h lecture/yr) DHY3202 (Dental hygiene) – Muscle physiology (1 h lecture/yr) PHYSIO 216 Endocrine physiology (Graduate students) (8 lectures/yr)

2015-2016: **Instructor** INTER 132, PHTH 7122 (Graduate students, Physician Assistants and Physical therapists)- Endocrine physiology (10 h/yr lecture) HLSC 3410 (Nursing) – Disorders of the vascular system and musculoskeletal disorders (3 h lecture/yr) DHY3202 (Dental hygiene) – Muscle physiology (1 h lecture/yr) PHYSIO 216 Endocrine physiology (Graduate students) (8 lectures/yr), INTER121 Cell Biology Adhesion, Intracellular Junctions, and ECM (Graduate students, 2 lectures/yr), Cardiovascular physiology (Graduate students, 2 lectures/yr)

2016-2017: **Instructor** INTER 132, PHTH 7122 (Graduate students, Physician Assistants and Physical therapists)- Endocrine physiology (10 h/yr lecture), INTER121 Cell Biology Adhesion, Intracellular Junctions, and ECM (Graduate students, 2 lectures/yr), Dental physiology (2lectures/yr). **Course director** Journal club (graduate students, 1h/ week).

2017-2018: **Instructor** INTER 132, PHTH 7122 (Graduate students, Physician Assistants and Physical therapists)- Endocrine physiology (10 h/yr lecture), INTER121 Cell Biology Adhesion, Intracellular Junctions, and ECM (Graduate students, 2 lectures/yr), Dental physiology- Endocrine physiology (10 lectures/yr). **Course director** Journal club (graduate students, 1h/ week), Interprofessional Education facilitator (6 hours/yr)

**Undergraduate, Medical, or Graduate Students Trained:**

**MENTORED STUDENTS**

1. **Delilah Hudson**, MS Mentor, Veterinary Sciences, Tuskegee University (TU). Graduated in Summer 2013.
2. **Stephen Ford**, MD/PhD Co-Mentor, Department of Physiology, LSUHSC, NO. 2014 to 2017.
3. **Katherine Adler,** MS, Mentor,Department of Physiology, LSUHSC, NO. 2017- Present.

**Undergraduate research mentoring**

1. Integrative Biosciences Research Experience for Undergraduates mentor– IBS REU Summer internship, (TU), 1 student each in 2011 and 2012.
2. Mentor –MARC (Mentoring for Academic-Research Careers) Scholar, Tuskegee University (TU), 2011.
3. Merial Scholar mentor, (TU) – Summer 2012
4. Summer research program for DVM students, (TU) - 2 students in 2011 and 2 students in 2012 and 1 student in 2013.
5. Summer Training program, LSUHSC-1 undergraduate and 2 high school students in 2014

K-12 teacher – APS teacher Fellow, Summer 2014 and 2016, 1 undergraduate and 1 high school student in 2015, 1 undergraduate and 1 high school student (1st place for high school poster competition) in 2016, 3 high school students (2nd place in high school poster competition).

**Thesis and Dissertation Committees:**

1. **Samuel Rodriguez**, MS thesis committee member: 2010-2011, MS Veterinary Sciences, TU.
2. **Martha C Graham**, MS thesis committee member: 2010-2012, MS Veterinary Sciences, TU.
3. **Shaniece Theodore**, PhD thesis committee member, 2011-2013 Integrated Biosciences PhD program, TU. Graduated, Summer 2013
4. **John Maxi,** PhD thesis committee member, LSUHSC, 2014-2017
5. **Alan Mouton**, PhD thesis committee member, LSUHSC, 2014-2017
6. **Adrienne McGinn,** PhD thesis committee member, LSUHSC, 2015- Present
7. **Van Ninh,** PhD thesis committee member, LSUHSC, 2015- Present
8. **Vincent Maffei,** MD PhD thesis committee member, LSUHSC, 2016- Present
9. **Elia Hajj,** PhD thesis committee member, LSUHSC, 2016- Present

**RESEARCH AND SCHOLARSHIP**

**Grants and Contracts:**

**Funded**

1K01AA024494-01A1 **(PI- Liz Simon)** 07/05/2016 – 06/30/2021 9 mo DC $778820

NIH/NIAAA **Role: PI**

Alcohol-induced myomiR dysregulation: mechanisms of impaired skeletal muscle regeneration in SIV/HIV

P602P60AA009803-22 (**Director- Molina PE**) 12/01/14-11/30/19 1.8 mo DC $1,500,000

NIH/NIAAA **Role: Co-Investigator**

“Alcohol & Metabolic Dysregulation in SIV/HIV; Muscle & Adipose Mechanisms”

The studies explore the impact of alcohol on metabolic dysregulation in the muscle and adipose tissue in SIV/HIV infection

P60 2P60AA009803-22 (**Director- Molina PE**) 12/01/2014-11/30/2019 1.8 mo DC $1,500,000

NIH/NIAAA **Role: Co-Director**

Resource Core 1: Experimental Core. The Non-human Primate Research Unit of the Experimental Core will coordinate and execute all experimental procedures described in RC-1 and RC-2 using our established CBA/SIV NHP model.

UH2/UH3 1UH2AA026198-01 **(PI Molina PE)** 06/01/2017- 05/31/2022 0.6 mo DC 1,446,260

NIH/NIAAA **Role: Co-Investigator**

Alcohol & Metabolic Comorbidities in PLWHA; Evidence-Driven Interventions

The studies explore whether a higher proportion of HIV patients with Alcohol use disorders with subclinical fasting dysglycemia will present with impaired oral glucose tolerance and potential skeletal muscle induced mechanisms. Studies will explore whether aerobic exercise will improve glycemic control.

**Journal Publications:**

**Refereed**

1. **Simon L,** Vijayakumaran V (2002). Assessment of bacterial load in frozen buck semen. **Indian Journal of Animal Sciences** 72:783-84.
2. **Simon L**, Vijayakumaran V (2003). Effect of refrigeration temperature on bacterial load and quality of buck semen. **The Indian Journal of Animal Reproduction** 24:71-72.
3. **Simon L**, Veerapandian C, Balasubramanian S, Subramanian A (2006). Somatic cell nuclear transfer in buffalos: effect of the fusion and activation protocols and embryo culture system on pre-implantation embryo development. **Reproduction, Fertility and Development** 18:439-45. **PMID:16737637**
4. Cooke PS, Hess RA, **Simon L**, Schlesser HN, Carnes K, Tyagi G, Hofmann M-C, Murphy KM (2006). The transcription factor Ets-Related Molecule ERM is essential for spermatogonial stem cell maintenance and self-renewal. **Animal Reproduction** 3:98-107
5. Sridharan S, **Simon L**, Meling D, Cyr D, Gutstein DE, Fishman GI, Guillou F, and Cooke PS (2007). Proliferation of adult Sertoli cells following conditional knockout of the gap junctional protein GJA1 (connexin 43). **Biology of Reproduction** 76:804-12. **PMID:17229929**
6. **Simon L**, Ekman GC, Tyagi G, Hess RA, Murphy KM, Cooke PS (2007). Common and distinct factors regulate expression of mRNA for ETV5 and GDNF, Sertoli cell proteins essential for spermatogonial stem cell maintenance. **Experimental Cell Research** 313: 3090-99. **PMID:17574550**
7. Schlesser HN, **Simon L**, Hofmann M-C, Murphy KM, Hess RAand Cooke PS (2008). Effects of Ets variant gene 5 (ERM) on testis and body growth, time course of spermatogonial stem cell loss and fertility in mice. **Biology of Reproduction** 78: 483-9. **PMID:18032421.** PMC2911230
8. **Simon L**, Spiewak KA, Ekman GC, Kim J, Lydon JP, Bagchi M, Bagchi I, DeMayo FJ and Cooke PS (2009). Stromal progesterone receptors mediate induction of IHH in uterine epithelium and its downstream targets in uterine stroma. **Endocrinology** 150:3871-6. **PMID:19372202.** PMC2717869
9. **Simon L**, Ekman GC, Kostereva N, Zhang Z, Hess R, Hofmann MCand Cooke PS (2009). Direct transdifferentiation of stem/progenitor spermatogonia into reproductive and non-reproductive tissues of all germ layers. **Stem Cells** 27:1666-75. **PMID: 19544441.** PMC2904909
10. Morrow C, Tyagi G, **Simon L**, Carnes K, Murphy K, Cooke PS, Hofmann M-C, Hess RA (2009). Claudin 5 expression in mouse seminiferous epithelium is dependent upon the transcription factor Ets-Variant 5 and contributes to blood-testis barrier function. **Biology of Reproduction** 81:871-9. **PMID: 19571261.** PMC2770019
11. Simon L, Hess RA, Cooke PS (2010). Spermatogonial stem cells, in vivo transdifferentiation and human regenerative medicine. Expert Opinion on Biological Therapy 10:519-30. PMID: 20146635
12. Simon L, Ekman GC, Garcia T, Carnes K, Zhang Z, Murphy T, Murphy KM, Hess RA, Cooke PS, Hofmann MC (2010). ETV5 regulates Sertoli cell chemokines involved in mouse stem/progenitor spermatogonia maintenance. Stem Cells 28:1882-92. PMID: 20799334. PMC3109872
13. **Simon L**, Avery L, Braden TD, Williams CS, Okumu L, Williams JW, Goyal HO (2011). Exposure of neonatal rats to anti-androgens induces penile mal-developments and infertility comparable to those induced by estrogens**.** **International Journal of Andrology** 35: 364-76**. PMID: 22150386**
14. Nanjappa MK, **Simon L**, Akingbemi BT (2012). The industrial chemical Bisphenol A (BPA) interferes with proliferative activity and development of steroidogenic capacity in rat Leydig cells. **Biology of Reproduction** 86:1-12. **PMID: 22302688.** PMC3364919
15. Okumu LA, Bruinton SA, Braden TD, **Simon L**, Goyal HO (2012). Estrogen-Induced Maldevelopment of the Penis Involves Down-Regulation of Myosin Heavy Chain 11 (MYH11) Expression, a Biomarker for Smooth Muscle Cell Differentiation. **Biology of Reproduction** 87:109. **PMID: 22976277.** PMC3509779
16. **Simon L**, Cooke PS, Berry SE (2013) Aorta-Derived Mesoangioblasts Can Be Differentiated into Functional Uterine Epithelium, but Not Prostatic Epithelium or Epidermis, by Instructive Mesenchymes. **Cells Tissues Organs** 198(3):169-78. Epub 2013 Oct 26. **PMID: 24192012**
17. Okumu LA, Braden TD, Vail K, **Simon L**, Goyal HO (2013).Low Androgen-Induced Penile Mal-development Involves Altered Gene Expression for Biomarkers for Smooth Muscle Differentiation and a Key Enzyme Regulating Cavernous Smooth Muscle Cell Tone. **Journal of Urology** **PMID: 24316094.**
18. Napier ID, **Simon L**, Perry D, Cooke PS, Stocco DM, Sepehr E, Doerge DR, Kemppainen BW, Morrison EE, Akingbemi BT (2014)Testicular Development in Male Rats Is Sensitive to a Soy-Based Diet in the Neonatal Period. **Biology of Reproduction** Feb 27;90(2):40**. PMID 24451983**

# Simon L, LeCapitaine N, Berner P, Stouwe CV Mussell JC, Allerton TD, Primeaux SD, Dufour J, Nelson S, Bagby GJ, Cefalu W and Molina PE (2014) Chronic binge alcohol consumption alters myogenic gene expression and reduces in vitro myogenic differentiation potential of myoblasts from rhesus macaques. American Journal of Physiology – Regulatory, Comparative and Integrative Physiology, March 26, 2014. PMID 24671243

1. Dodd T, **Simon L**, LeCapitaine NJ, Mussell J, Zabaleta J, Berner P, Ford S, Dufour J, Bagby GJ, Nelson S, Molina PE (2014). Chronic binge alcohol administration accentuates pro-fibrotic and inflammatory gene expression in the skeletal muscle of simian immunodeficiency virus-infected macaques. **Alcohol Clinical Experimental Research** Nov; 38(11):2697-706.**PMID 25421506.**
2. Molina PE, Amedee AM, Winsauer P, Nelson S, Bagby G, **Simon L.** (2015). Behavioral, Metabolic, and Immune Consequences of Chronic Alcohol or Cannabinoids on HIV/AIDs: Studies in the Non-Human Primate SIV Model. **J Neuroimmune Pharmacology**. **10(2):217-232 PMCID: PMC4470723**
3. Cooke PS, **Simon L**, Nanjappa MK, Medrano TI, Berry SE. (2015) Plasticity of spermatogonial stem cells. **Asian J Andrology.** May-Jun;17(3):355-359 **PMCID: PMC4430932**
4. **Simon L**, Song K, Stouwe CV, Hollenbach A, Amedee A, Mohan M, Winsauer P, Molina PE (2015). Δ9-tetrahydrocannabinol (Δ9-THC) promotes neuroimmune-modulatory microRNA profile in striatum of simian immunodeficiency virus (SIV)-infected macaques. **J Neuroimmune Pharmacology** 11(1):192-213 **PMID: 26607731**
5. **Simon L**, Hollenbach AD, Zabaleta Jand Molina PE (2015) Chronic binge alcohol administration dysregulates global regulatory gene networks associated with skeletal muscle wasting in simian immunodeficiency virus-infected macaques. **BMC Genomics** Dec 23;16(1):1097 **PMCID:** [**PMC4690320**](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4690320/)
6. Ford SM Jr, **Simon L**, Stouwe CV, Allerton T, Mercante DE, Byerley LO, Dufour JP, Bagby GJ, Nelson S, Molina PE (2016) Chronic Binge Alcohol Administration Impairs Glucose-Insulin Dynamics and Decreases Adiponectin in Asymptomatic Simian Immunodeficiency Virus-Infected Macaques. **American Journal of Physiology – Regulatory, Comparative and Integrative Physiology** **PMID: 27605560**
7. Duplanty AA, **Simon L**, Molina PE. (2017) Chronic Binge Alcohol-Induced Dysregulation of Mitochondrial-Related Genes in Skeletal Muscle of Simian Immunodeficiency Virus-Infected Rhesus Macaques at End-Stage Disease. **Alcohol Alcohol**. Jan 8. **PMID: 28069597**
8. Souza-Smith FM, Ford SM Jr, **Simon L**, Molina PE (2017). Repeated Binge-Like Alcohol Intoxication: Depot-Specific Adipose Tissue Immuno-Metabolic Dysregulation. Shock. 2017; 48(2):243-250.
9. **Simon L**, Ford SM Jr, Song K, Berner P, Vande Stouwe C, Nelson S, Bagby G. J, Molina P. E (2017). Decreased myoblast differentiation in chronic binge alcohol and antiretroviral therapy administered simian immunodeficiency virus-infected macaques: role of miR-206. **American Journal of Physiology – Regulatory, Comparative and Integrative Physiology PMID:28637658**
10. **Simon L**, Siggins R, Winsauer P, Brashear M, Ferguson T, Mercante D, Song K, Vande Stouwe C, Nelson S, Bagby GJ, Amedee AM, Molina PE (2017). Simian immunodeficiency virus infection increases blood ethanol concentration duration after both acute and chronic administration. **AIDS Res Hum Retroviruses**. **PMID: 29037050**
11. **Simon L**, Jolley SE, Molina PE (2018). Alcoholic myopathy: Pathophysiologic mechanisms and clinical implications. Alcohol Research 38 (2): 207-217. **PMID:29546271**

# Duplanty AA, Siggins RW, Allerton T, Simon L, Molina PE. (2018). Myoblast mitochondrial respiration is decreased in chronic binge alcohol administered simian immunodeficiency virus-infected antiretroviral-treated rhesus macaques. Physiological Reports. PMID:29504290

# Molina PE, Simon L, Amedee AM, Welsh DA, Ferguson TA (2018). Impact of Alcohol on HIV Disease Pathogenesis, Comorbidities and Aging: Integrating Preclinical and Clinical Findings. Alcohol and Alcoholism

**Book Chapters:**

1. Cooke PS, Gore AC, Crews D, **Simon L**, Cimafranca MA (2010). Environmental endocrine disruptors and male reproductive toxicology. ***Comprehensive Toxicology, 2nd edition.*** *Hoyer P and Richburg J (eds.), Elsevier Press, Oxford, England.*
2. **Simon L**, Hofmann MC, Cooke PS (2012). Spermatogonial stem cells – an alternate source of pluripotent stem cells for regenerative medicine. ***Tissue Regeneration: From Basic Biology to Clinical Application***, *Davies J (eds), Intech, Rijeka, Croatia.*
3. Cooke PS, **Simon L**, Roberts SM,Denslow ND (2013). Environmental endocrine disruptors. ***Handbook of Toxicological Pathology, 3rd edition***. *Haschek-Hock WM, Rousseaux CG, and Wallig MA (eds)*, *Academic Press Inc.,.San Diego, CA*

**Published Abstracts: past 5 years**

**International**

1. McGill J, Reddy G, **Simon L**, Wirtu G. Effect of acetyl-CoA carboxylase (ACC) inhibitor on the lipid content and nuclear maturation of canine oocytes. *Program of the 40th Annual IETS Conference,* January, 2014
2. Goyal HO, Okumu L, Braden T, **Simon L**. Mechanism of estrogen- or anti-androgen-induced penile maldevelopment. *Program of the 8th European Congress on Andrology, Barcelona*, October 15-17, 2014.

# Simon L, Molina P. E. Skeletal muscle and adipose mechanisms contributing to metabolic dysfunction in chronic alcohol administered simian immunodeficiency virus-infected male macaques. *Physiology 2016, Program of The Physiological Society and The American Physiological Society, Dublin,* July, 2016

### Molina PE, **Simon L**, Welsh D, Amedee A, Siggins R, Ferguson T, Brashear M, Primeaux S. Alcohol-SIV/HIV-ART interactions & resulting comorbidities*. International Society for Biomedical Research on Alcoholism, Kyoto, Japan, 2018*

**National**

1. Ford S, Dodd T, **Simon L,** and Molina PE. Chronic binge alcohol accentuates simian immunodeficiency virus (SIV)-induced alterations in the skeletal muscle milieu contributing to impaired satellite cell myogenic differentiation. *Program of 20th Research Conference of the Society for Neuroimmune Pharmacology*, March 2014
2. **Simon L**, Cefalu W, Molina PE. Alcohol accentuates simian immunodeficiency virus (SIV)-induced alterations in the skeletal muscle milieu contributing to impaired myogenic differentiation of myoblasts from rhesus macaques. *Program of Experimental Biology*, April 2014
3. **Simon L**, Thaker P, Molina PE. Chronic binge alcohol (CBA) alters expression of miR-133 and -206 in the skeletal muscle of SIV-infected macaques. *Program of the 32nd annual symposium on nonhuman primate models for aids,* November 10-14, 2014.
4. **Simon L**, Zabaleta J, Song K, Stouwe CV, Bagby GJ, Nelson S, Molina PE. Chronic alcohol-induced microRNA changes contribute to impaired skeletal muscle regeneration. *Program of the 38th Annual Meeting of the Research Society on Alcoholism,* June 2015*.*
5. Allerton T, Berner P, **Simon L**, Molina PE. Chronic Binge Alcohol (CBA) Decreases Skeletal Muscle Oxidative Capacity in Simian Immunodeficiency Virus (SIV)-Infected Macaques. *Program of Experimental Biology,* 2015.
6. **Simon L**, Pizzalato C, Molina PE. Chronic binge alcohol (CBA) decreases miR-206 expression in the skeletal muscle of Simian Immunodeficiency Virus (SIV)-infected macaques. *Program of Experimental Biology,* 2015.
7. **Simon L**, Mercante D, Winsauer P, Amedee A, Molina PE. Simian immunodeficiency virus infection prolongs the time of increased blood alcohol concentration after acute binge alcohol administration. *Program of the 39th Annual Meeting of the Research Society on Alcoholism*, June 2016.
8. Middleton J, **Simon L**, Maxi J, Schumacher J, Edwards S, Birke L, Molina PE. Physiological synaptic changes in the caudate nucleus of acute-alcohol administered SIV-infected macaques. *Program of the 39th Annual Meeting of the Research Society on Alcoholism*, June 2016.
9. **Simon L**,Ray I, Song K,Molina PE. Expression of neuromuscular junction genes in simian immunodeficiency virus infection: impact of chronic binge alcohol and antiretroviral therapy.*Program of Experimental Biology*, April 20-22, 2017.
10. Duplanty AA, **Simon L**, Molina PE. Chronic Binge Alcohol-Induced Dysregulation of Mitochondrial-Related Genes in Skeletal Muscle of Simian Immunodeficiency Virus-Infected Rhesus Macaques at End-Stage Disease. *Program of Experimental Biology*, April 20-22, 2017.
11. Ford Jr SM, Nelson S, Bagby GJ, **Simon L**, Molina PE. Anti-retroviral therapy increases hepatic gluconeogenic and lipogenic enzyme expression but does not alter expression of insulin signaling cascade proteins in **chronic binge alcohol administered SIV-infected rhesus macaques.** *Program of Experimental Biology*, April 20-22, 2017.
12. **Simon L**. Alcohol-induced impaired skeletal muscle regeneration: role of myomiRs. *Program of the 40th Annual Meeting of the Research Society on Alcoholism*, June 2017.
13. Ferguson T, **Simon L**, Brashear M, Mercante D, Parsons C, T**heall K,** Welsh D, Molina P.E. Chronic hazardous alcohol use; role in HIV-associated metabolic comorbidities. *Program of the 40th Annual Meeting of the Research Society on Alcoholism*, June 2017.
14. Jolley SE, Lammi MR, Stender SR, Okpechi SC, Boulares AH, DeBoisblanc BP, Molina PE, **Simon L.** Exercise-induced changes in muscle-specific microRNA expression in COPD patients. *Program of the Annual Meeting of the American Thoracic Society*, May 19-24, 2017.
15. Jolley SE, DeBoisblanc BP, **Simon L**, Molina PE, Hough CL. Relationship between pre-hospital alcohol use and presence of ICU-acquired neuromuscular dysfunction. *Program of the annual meeting of the Association for Clinical and Translational Science*, April 19-21, 2017.
16. Edwards S, Yeh AY, Molina PE, **Simon L**. Animal model of combined alcoholic neuropathy and complex regional pain syndrome: additive effects on hyperalgesia in female rats. *Program of the 41st Annual Meeting of the Research Society on Alcoholism, June 2018.*
17. **Simon L**, Yeh AY, Molina PE. Chronic alcohol induced increase in TGF-β1 impairs skeletal muscle recovery after disuse atrophy in rodents. *Program of the 41st Annual Meeting of the Research Society on Alcoholism, June 2018.*
18. Wills TA, Middleton JW, Carzoli, KL, **Simon L**, Molina PE, Edwards S. Impaired novel object recognition and altered neuronal excitability in chronic binge alcohol-administered, SIV-infected female rhesus macaques. *Program of the 41st Annual Meeting of the Research Society on Alcoholism, June 2018.*
19. Ferguson TF, Carr R, Ronis MJ, **Simon L**, Brashear MM, Siggins RW, Welsh DA, Molina PE. Increased burden of liver disease in people living with hiv: hazardous alcohol use. *Program of the 41st Annual Meeting of the Research Society on Alcoholism, June 2018.*
20. **Simon L**, Ferguson TF, Brashear MM, Primeaux S, Mercante D, Welsh DA, Molina PE. Chronic hazardous alcohol use in people living with hiv: increased prevalence of insulin resistance. *Program of the 41st Annual Meeting of the Research Society on Alcoholism, June 2018.*

**Local**

1. Fitchett V and **Simon L**. Role of the Angiogenic Chemokine, CXCL5, on VEGF Expression in Prostate Cancer Cell Lines *Program of the IBS-REU summer program symposium for undergraduates, Tuskegee University* July, 2012.
2. Fitchett V, Okumu LA, Samuel T, Wang H, Turner T, Grizzle WE and **Simon L.** Expression of the angiogenic chemokine CXCL5 in prostate cancer cell lines.*Program of the**Morehouse School of Medicine/Tuskegee University/UAB Comprehensive Cancer Center Partnership Summer Institute,* 2012*.*
3. Weatherspoon S and **Simon L.** Dihydrotestosterone increases proliferation and expression of vascular endothelial growth factor in prostate cancer cells. *Program of the 2nd Phi Zeta Research Day, Tuskegee University, Tuskegee, AL* September 2013 (Oral presentation).
4. **Simon L**, LeCapitaine N, Berner P, Dodd T, Stouwe CV and Molina PE. Chronic binge alcohol (CBA) consumption increases cell death and alters myogenic gene expression in skeletal muscle satellite cells *Program of the Alcohol and Immunology Research Group Meeting*, November 2013
5. Dodd T, **Simon L**, Zabaleta, J, Dufour J, Bagby GJ, Nelson S, Molina PE. Gene Expression Signature in Skeletal Muscle of Chronic Alcohol Administered SIV Infected-Macaques. *Program of the 3rd Alcohol and Drug Abuse Center* Mini-Retreat May 23, 2014
6. Ford S, Dufour J, Bagby GJ, Nelson S, Molina PE, **Simon L**. Alcohol accentuates transforming growth factor-1 (TGF-b1) expression in the skeletal muscle of simian immunodeficiency virus (SIV)-infected rhesus macaques promoting a pro-fibrotic phenotype. *Program of the 3rd Alcohol and Drug Abuse Center Mini-Retreat* May 23, 2014
7. Mitchell G, **Simon L**, Molina PE. Chronic Binge Alcohol Administration Dysregulates Skeletal Muscle microRNAs in SIV-infected Macaques. *Summer Research Day, LSUHSC NO*, 2015
8. Ricks J, Berner P, Stouwe CV, **Simon L**, Molina PE. Chronic alcohol dysregulates mesenteric adipose tissue phenotype in Simian Immunodeficiency Virus infected macaques. *Summer Research Day, LSUHSC NO*, 2015
9. Stender SR**,** Jolley SE, Lammi MR, Okpechi SC, Boulares AH, deBoisblanc B, Molina PE, **Simon L**. Expression of Circulating Myomirs in COPD Patients Post-Exercise. *Medical Student Research Day*, 2016
10. Duhon K, Molina PE, **Simon L**. Myostatin decreases differentiation potential of myoblasts. *Summer Research Day, LSUHSC NO*, 2016
11. Ray I, Song K, Molina PE, **Simon L.** Chronic binge alcohol and simian immunodeficiency virus infection in Rhesus macaques: Impact on expression of neuromuscular junction genes. *Summer Research Day, LSUHSC NO*, 2016
12. Cook G Jr, Ford S Jr, Molina PE, **Simon L.** Chronic Binge Alcohol (CBA) may impair insulin signaling in skeletal muscle of SIV infected female rhesus macaques. *Summer Research Day, LSUHSC NO*, 2016
13. Adler k, SongK, Molina PE, **Simon L***.* Chronic binge alcohol and simian immunodeficiency virus infection dysregulates histone deacetylase expression in myoblasts and skeletal muscle of rhesus macaques. Graduate student Research Day, LSUHSC NO, 2017.
14. Yeh A, Molina PE, **Simon L**. Chronic alcohol impairs skeletal muscle recovery after disuse atrophy. Delta Omega Research Day, School of Public Health, LSUHSC-NO, 2018

**Research Review Committee:**

SOM Internal Grant Review, 2016 – Adhoc reviewer

Alcohol and Drug Abuse Center of Excellence, LSUHSC, pilot grant reviewer, 2014

**Scientific Presentations:**

**National**

1. **Simon L**, Spiewak KA, Ekman GC, Kim J, Lydon JP, Bagchi M, Bagchi I, DeMayo FJ Cooke PS. Stromal progesterone receptors mediate induction of IHH in uterine epithelium and its downstream targets in uterine stroma. *Program of the 90th Annual Meeting of the Endocrine Society, San Francisco, CA, June, 2008.*
2. **Simon L**, Murphy KM, Murphy T, Hess RA, Cooke PS, Hofmann MC. The transcription factor ETV5 regulates Sertoli cell chemokines that maintain spermatogonial stem cells in the stem cell niche. *Program of the 33rd Annual Meeting of the American Society of Andrology, Albuquerque, NM, April, 2008.*
3. **Simon L.**Mechanisms underlying decreased regeneration potential - Alcohol as an accelerator of chronological age. *Program of Experimental Biology 2016*, Presidential symposium.
4. **Simon L.** Metabolic Comorbidities of Alcohol and SIV/HIV. *Program of Experimental Biology 2018*, AFMR symposium on Bench to Bedside Approaches to Human Disease.
5. **Simon L.** Impact of impaired stem cell differentiation on alcohol-induced muscle wasting. *Program of Experimental Biology 2018*. Symposium on “Mechanisms underlying skeletal muscle adaptation in health and disease”
6. **Simon L. Chair of symposium,** S**ex-dependent alcohol associated comorbidities. *Program of the 41st Research Society on Alcoholism 2018.***

**Editorial Posts and Activities:**

**Associate editor-** Biomedicine & Pharmacotherapy

**Reviewer-** Alcohol, Alcohol Clinical Experimental Research, Alcohol and alcoholism, Life Sciences, Biology of Reproduction, Animal Reproduction Science,

**SERVICE ACTIVITIES**

**University/Institutional Service:**

**Professional society committees:** Animal Care and Experimentation (ACE) Committee, American Physiological Society. Address issues impacting research and teaching involving animals.

* **Institutional service:** 
  + Committee on Women’s Affairs (2014-Present)
  + Multicultural and diversity Committee (2015-Present)

**Administrative Responsibilities:**

**LSUHSC:** 2015, 2016 Graduate school research day- judge

**Community Service Activities:** New Orleans Science Fair, Judge