

## CURRICULUM VITAE

**Udaya DeSilva**

**Associate Professor**

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Department of Animal Science

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### Education

<b>Ph.D.,</b>	1998	Molecular Genetics, Washington University, St. Louis, MO
<b>M.S.,</b>	1992	Animal Genetics, Kansas State University, Manhattan, KS
<b>B.V.Sc.</b>	1986	Veterinary Medicine, University of Peradeniya, Sri Lanka

### Professional Experience

Associate Professor	2006-	Department of Animal Science, OSU
Adjunct Associate Professor	2009 -	Department of Biochemistry and Molecular Biology, OSU
Visiting Professor	2011 (summer)	China Agricultural University, Beijing, China
Assistant Professor	2001 – 2006,	Department of Animal Science, Oklahoma State University, Stillwater, OK
Visiting Professor	2004 (summer), 2006 (summer),	Facultad de Zootecnia, Universidad Autonoma de Chihuahua, Chihuahua, Mexico
Research Scientist	2000-2001,	Commonwealth Scientific and Industrial Research Organisation (CSIRO), Sydney, Australia
Postdoctoral Fellow	1998-2000,	CSIRO, Sydney, Australia
Graduate Assistant	1993-1998,	National Human genome Research Institute (NHGRI), NIH, Bethesda, MD
	1992-1993,	Washington University, St. Louis, MO
Graduate Student	1990-1992,	Kansas State University, Manhattan, KS
Veterinary Research Officer	1990,	Veterinary Research Institute, Sri Lanka
Assistant Lecturer	1989-1990,	Ruhuna University, Sri Lanka
Veterinarian	1986-1989,	Mahaweli Authority, Sri Lanka

### Awards and Honors

2017	-	University Service Award – Oklahoma State University
2015	-	Alpha Zeta Outstanding Teacher Award
2014	-	Regents' Distinguished Teaching Award
2010	-	Alpha Zeta Outstanding Teacher Award
2009	-	Tyler Award for Outstanding Faculty – Department of Animal Science
2008	-	Outstanding Faculty Award - OSU Interfraternity and Panhellenic Council
2008	-	Honorary Inductee – Golden Key Honor Society
2007	-	Gamma Sigma Delta
2006	-	Sigma Xi Young Investigator Award
1990	-	Fulbright Fellowship

### **Teaching Assignments**

ANSI5010 Special Topics in Eukaryotic Genetics  
ANSI3423 Animal Genetics  
ANSI4900 You and Your Genome  
ANSI4843 Applied Biotechnology in Animal Science  
ANSI3903 Ag Animals of the World  
HONR1000 – Science and the Movies  
Academic Advisor for 59 Animal Science students  
Chair or member of 9 graduate (MS or PhD) committees

### **Departmental, College and University Responsibilities**

Chair, OSU Faculty Council – 2019-present  
Secretary, OSU Faculty Council – 2011-2014  
Faculty Council – 2007-2010, 2010-2014  
Faculty Committee of the Faculty Council 2007-2011, 2015-2018  
Chair-Faculty Committee of the Faculty Council 2008-2011  
Chair – Institutional Biosafety Committee 2010-2012  
Member – Institutional Biosafety Committee 2007 - 2017  
Honors Council 2007-2009  
Departmental Strategic Planning Committee - 2004  
General Faculty Representative – Diversity Advisory Board 2005-2008  
Faculty advisor – Sri Lanka Student Association  
Treasurer – Asian American Faculty and Staff Association 2006-2008  
Library Advisory Committee 2002-2005, 2014-2017  
Chair Library Advisory Committee 2004-2005, 2011-2013  
Member – Agriculture Faculty Council 2004-2006

### **National International Responsibilities**

Member NRSP-8 National Animal Genome Research Program of the US Department of Agriculture and participate in cattle, sheep and swine committees.  
Cattle and Sheep Organizing Committee  
Secretary 2004-2005, Chair 2005-2006  
Panel member NIFA/IFPS Animal Nutrition, Growth and Lactation Panel 2013  
Panel member NIH/USDA PAR Research Using Agriculturally Important Animals Grant Panel 2011, 2012  
Panel member USDA-PRRS grant review panel 2008  
Panel member USDA-CSREES 43.0 Animal Genome grant review panel 2005, 2008  
Panel member USDA-CSREES 43.1 Animal Genome Reagents and Tools grant review panel 2005  
Editorial Board – Journal of Animal Science and Biotechnology, 2011-present  
Ad Hoc reviewer – USDA-CSREES 41.0 Animal Reproduction– 2005  
Ad Hoc reviewer – Animal Genetics, Genetics Selection and Evolution, Journal of General Virology, Gene, Cytogenetics and Genome Research, DNA and Cell Biology and Journal of Animal Science,  
Member Sri Lanka Veterinary Council

**Publications:****Peer-reviewed publications in the last five years**

Lyman, C.C., Holyoak, G.R., Meinkoth, K., Wieneke, X., Chilemi, K.A., **DeSilva U.** 2019. Canine Endometrial and Vaginal Microbiomes Reveal Distinct and Complex Ecosystems. *PloS ONE* 14(1):e0210157

Qi, D., Wieneke, X., Xu, Z., Peipei, X. and **DeSilva, U.** 2018 A case study of soil fungal community succession in the Karst rocky desertification regions in the Wushan County, Chongqing, China. *Frontiers in Microbiology* 9: 01027

Ahlberg CM, Allwardt K, Broocks A, Bruno K, McPhillips L, Taylor A, Krehbiel CR, Calvo-Lorenzo M, Richards CJ, Place SE, **DeSilva U**, VanOverbeke DL, Mateescu RG, Kuehn LA, Weaber RL, Bormann JM, Rolf MM. 2018. Test duration for water intake, ADG, and DMI in beef cattle. *Journal of animal science.* 96(8): 3043-54.

Ahlberg CM, Allwardt K, Broocks A, Bruno K, McPhillips L, Taylor A, Krehbiel CR, Calvo-Lorenzo MS, Richards CJ, Place SE, **DeSilva U**, VanOverbeke DL, Mateescu RG, Kuehn LA, Weaber RL, Bormann JM, Rolf MM. 2018. Environmental effects on water intake and water intake prediction in growing beef cattle. *Journal of animal science.* 96(10): 4368-84.

Ke YL, Mitacek RM, Abraham A, Mafi GG, VanOverbeke DL, **DeSilva U**, Ramanathan R. 2017. Effects of Muscle-Specific Oxidative Stress on Cytochrome c Release and Oxidation Reduction Potential Properties. *Journal of Agricultural and Food Chemistry* 65: 7749-7755.

Allwardt, K., Ahlberg, C., Broocks, A., Bruno, K., Taylor, A., Place, S., Richards, C., Krehbiel, C., Calvo-Lorenzo, M., **DeSilva, U.**, vanOverbeke, D., Mateescu, R., Goad, C., Rolf, M.M. 2017 Validation of an automated system for monitoring and restricting water intake in group-housed beef steers. *Journal of Animal Science* 95: 4213-4219.

Roberts SL, Lancaster PA, **DeSilva U**, Horn GW, Krehbiel CR. 2015. Coordinated gene expression between skeletal muscle and intramuscular adipose tissue in growing beef cattle. *Journal of Animal Science* 93: 4302-4311.

Chako, C.Z., Step, D.L., Malayer, J.R., Krehbiel, C.R., **DeSilva, U.** and Streeter, R.N. 2015 Subacute ruminal acidosis and ruminal lactic acidosis: a review. *The Bovine Practitioner* 49:2:140-146

Jiang, Y., M. Xie, W. Chen, R. Talbot, J.F. Maddox, T. Faraut, C. Wu, D.M. Muzny, Y. Li, W. Zhang, J.A. Stanton, R. Brauning, W.C. Barris, T. Hourlier, B.L. Aken, S.M. Searle, D.L. Adelson, C. Bian, G.R. Cam, Y. Chen, S. Cheng, **U. DeSilva**, K. Dixen, Y. Dong, G. Fan, I.R. Franklin, S. Fu, P. Fuentes-Utrilla, R. Guan, M.A. Highland, M.E. Holder, G. Huang, A.B. Ingham, S.N. Jhangiani, D. Kalra, C.L. Kovar, S.L. Lee, W. Liu, X. Liu, C. Lu, T. Lv,

T.Mathew, S.McWilliam, M.Menzies, S.Pan, D.Robelin, B.Servin, D.Townley, W.Wang, B.Wei, S.N.White, X.Yang, C.Ye, Y.Yue, P.Zeng, Q.Zhou, J.B.Hansen, K.Kristiansen, R.A.Gibbs, P.Flicek, C.C.Warkup, H.E.Jones, V.Oddy, F.W.Nicholas, J.C.McEwan, J.W.Kijas, J.Wang, K.C.Worley, A.L.Archibald, N.Cockett, X.Xu, W.Wang, and B.P.Dalrymple. 2014. The sheep genome illuminates biology of the rumen and lipid metabolism. *Science* 344: 1168-1173.

**Abstracts (Last five years):**

Bruno K, McPhillips LJ, Calvo-Lorenzo M, **DeSilva U**, Krehbiel CR, Rolf MM, Place SE, Step DL, Mateescu RG, VanOverbeke DL, Husz TC. 2018 Effect of Temperament Measures on Feedlot Cattle Performance. *Journal of Animal Science* 96: 18-19

Ahlberg CM, Krehbiel CR, Richards CJ, Place SE, **Desilva U**, VanOverbeke DL, Mateescu R, Reed JA, Allwardt K, Taylor A et al. 2016. Test duration for feed and water intake in beef cattle using an Insentec system. *Journal of Animal Science* 94: 141-141.

Crockett EK, Graef JL, Ouyang P, Clarke SL, **DeSilva U**, Lucas EA, Smith BJ. 2016. Dietary Supplementation with Montmorency Tart Cherry Prevents the Alterations in Gut Mucosal Immunity that occurs with Ovarian Hormone Deficiency. *Faseb Journal* 30 (1): 916.

English AR, Mafi GG, Vanoverbeke DL, Xiaoping G, **Desilva U**, Ramanathan R. 2016. Effects of extending aging on biochemical properties of dark cutting beef. *Meat Science* 112: 171-171.

Matthews, K.M., Guo, X., Fernando, B.R. and **DeSilva, U**. 2013 Effect of Animal Manure in Development of Antibiotic Resistance in Agricultural Land. Plant and Animal Genome XXI Conference, San Diego, CA

Fernando, B.R., Hermansky, S., Kim, H., Bible, M.R., Carter, S.D., and **DeSilva, U**. 2012. Impact of Diet on Swine fecal microbiome. Plant and Animal Genome XX Conference, San Diego, CA.

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