

Curriculum Vitae

Randy Louis Stanko

OFFICE ADDRESS

Department of Animal Science
And Veterinary Technology
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EDUCATION

<u>Institution</u>	<u>Dates</u>	<u>Degree</u>	<u>Major</u>	<u>Minor</u>
Colo. State Univ.	1980 - 1985	B.S.	ANSC	
Texas A&M Univ.	1986 – 1988	M.S.	Phy. of Reproduction	
N. C. State Univ.	1988 - 1993	Ph.D.	Physiology	ANSC

PROFESSIONAL EXPERIENCE

2010-present, Professor of Animal Science, ASVT Dept., TAMUK

1999-2009, Associate Professor of Animal Science

Dept. of Animal & Wildlife Sci., TAMU-Kingsville (75%, 9-month)

TAES-Beeville and Physiology of Reproduction and Growth Section (25%, 12-month),

Dept. of Animal Science, Texas A&M University

1994-1999, Assistant Professor of Animal Science

Dept. of Animal & Wildlife Sci., TAMU-Kingsville (75%, 9-month)

TAES-Beeville and Physiology of Reproduction and Growth Section (25%, 12-month),

Dept. of Animal Science, Texas A&M University

Honors and Awards:

1999 Search for Excellence in Teen Programming Award Team,
Texas Association of Extension 4-H Agents

1997 Honorary Chapter FFA, FFA Degree

2000 Agriculture Professor of the Year, TAMUK College of Agriculture Student Orgs.

2001 Nominee USDA Agriculture Teaching Award

2003 Nominee USDA Agriculture Teaching Award

2003 Excellence in Teaching Award, College Ag. & Human Sciences, TAMUK

2004 Distinguished Teaching Award, Javelina Alumni Association

2006 Service Excellence Award, College Ag., Natural Resources, & Human Sciences

- 2008** Sr. Teaching Award, The Dick & Mary Lewis Kleberg College of Ag., Natural Res/H.S.
2022 Sr. Teaching Award, The Dick & Mary Lewis Kleberg College of Ag. & Natural Resources

TEACHING EXPERIENCE

Sept. 1994 to Present

Texas A&M University-Kingsville, Kingsville TX

Graduate Courses Taught

ANSC 5307 Physiology of Mammalian Reproduction (even years)

ANSC 5333 Mammalian Endocrinology (odd years)

ANSC 5390-002 Special Topics ('17)

Additional Graduate Course Team Taught

ANSC 5336 Environmental Physiology of Animals

Sept. 1994 to Present

Texas A&M University-Kingsville, Kingsville TX

Undergraduate Courses Taught

ANSC 1419 Introduction to Animal Science (summer 2019, only)

ANSC 2307 Feeds & Feeding

ANSC 2310 Livestock Management Techniques

ANSC 3304 Beef Management ('10, 2012 to present)

ANSC 3305 Market Classes and Grades of Livestock

ANSC 3308 Sheep and Meat Goat Management

ANSC 3313 Reproductive Physiology of Domestic Animals

ANSC 3336 Artificial Breeding of Livestock

ANSC 3390 Applied Reproductive Management of Livestock

ADVISING EXPERIENCE

TAMU-Kingsville Undergraduate Student Advisement

10-30 students per year

GRADUATE STUDENTS

TAMU-Kingsville Graduate Students

Current Graduate Students:

3 M.S.

Allison Watts

Jessica Rogers

Austin Manars

Graduated Students:

7.5 M.S.

Melissa Mahan *08/09

T.C. Rocha* 12/18

Zachary Lopez-**Co-Chair** *8/12

Jeana Barrow *5/13

Eric Taylor *5/15

Kyle McManus *8/15

Daisy Trevino *5/17

Victor Flores *8/18

Graduate Advisory Committee Member:**[18]**

Elizabeth Aguirre *8/10	Luis Ayala *5/15	Makenzie Lowke *8/22
Robin Katchko *8/10	Adrian Arellano*8/16	Islyn Gilmore 5/23
Fang Xie *8/11	Alexandra Calderon*5/16	
Martha Ramirez *8/12	Ph.D. J. L. Grace *2016	
Jake Salvagno *8/12	Gustavo Faz*12/18	
Kathrine Korzeniewski *5/12	John Olsen 5/19	
Janine Szafranski *5/12	Maria Cantu 12/19	
Rita Flores *5/15	Xiomara Cortez 5/21	

***Indicates a thesis student, all other are non-thesis research project or courses only program**

COMMITTEE ASSIGNMENTS**CURRENT**

Chair, TAMU-K Institutional Animal Care and Use Committee (IACUC), **2012-present**

Member, TAMU-K Teaching Farm Advisory Committee, **2011-present**

Member, College of Agriculture & Human Sciences Tenure/Promotion, **2020-2024**

Member, ASVT Promotion, and Promotion/Tenure Committee, **2002-present**

Member, ANSC Student Excellence Award Committee, **annually**

COMPLETED

Chair, College of Agriculture & Human Sciences Tenure/Promotion, **2018-2019, 2022**

Chair, College of Agriculture & Human Sciences, Curriculum Committee, **2015-2021**

Member, TAMUK Javelina Alum. Assoc. Distinguished Teaching/Research Award Committee, **2012-2021**

TAMUK Strategic Planning Committee, Provost appointed **member, 2020-2021**

Member, ARWS Curriculum Committee, **1998-2019**

Member, ASAS Southern Section, Physiology Committee, **2013-2016, Chair 2017**

Chair, TAMU-K Curriculum Committee, **2000-2011**

Chair, ARWS Director of Veterinary Technology Search Committee, **2012**

Chair, ANSC Faculty Search Committee, **2009**

Member, ASAS Southern Section Outstanding Young Animal Scientist – Education Award Committee, **2012-2016, Chair 2016**

Member, ARWS VETT Lg. Animal Pavilion Project, **2016**

Member, College Annual Evaluation Criteria Committee, **2014-2015**

Member, TAMU-K Student Service Fee Committee, **2013-2015**

Member, College Teaching Farm Manager Search Committee, **2015**

Member, TAMU-K Undergraduate Program Review Committee, **2014-2015**

Member, KRIRM Endowed Chair Search Committee, **2015**

Member, TAMU-K Teaching Farm Long-Term Animal Facilities Planning Committee, **2014**

Member, ARWS Animal Nutritionist Position Search Committee, **2014**

Member, TAMU-K University Appeals Committee, **2011-2013**

Member, TAMU-K Curriculum Committee, **1997-2000**

Member, TAMUK Calendar Committee, **2008-2012**

Member, TAMU-K Institutional Animal Care and Use Committee (IACUC), **2011-2012**

Member, TAMU-K Teaching Farm Improvement Committee, **1994-2010**

Member, College Teaching Farm Manager Search Committee, **2010**

PUBLICATIONS

Refereed Journal Articles

- J.K. Taylor, **R.L. Stanko**, R. Rhoades, K.C. McCuiston, C. Mathis, R. Machen, B.L. Turner. 2022. Can early weaning calves of first-calf heifers improve long-term herd and financial performance in a vertically-integrated beef production system? A case-study application using system dynamics. *Applied Anim. Sci.*, 38:183-199.
- G.L. Williams and **R.L. Stanko**. 2020. Pregnancy rates to fixed-time AI in *Bos indicus*-influenced beef cows using PGF2 α with (Bee Synch I) or without (Bee Synch II) GnRH at the onset of the 5-day CO-Synch + CIDR Protocol. *Theriogenology* 142, pp. 1-7.
- Grace, J., Sandra Rideout-Hanzak, **Randy Stanko**, Veronica Acosta-Martinez, Alfonso Ortega-S and David Wester. 2019. Soil seed bank characteristics in rangelands with increasing invasion of *Heteropogon contortus* or *Eragrotis Lehmanniana*. *J. of Arid Environments* 170, 104009.
- Grace, J., Veronica Acosta-Martinez, Sandra Rideout-Hanzak, **Randy Stanko**, Alfonso Ortega-S, and David Wester. 2019. Soil microbial community size and composition changes along a tanglehead (*Heteropogon contortus*) gradient in a semiarid region. *Applied Soil Ecology*, 138, pp. 37-46.
- Scarpa, J.O., M.M. O'Neil, R.C. Cardoso, **R.L. Stanko**, and G.L. Williams 2019. Ovarian follicular and luteal characteristics in *Bos indicus*-influenced beef cows using prostaglandin F_{2 α} with or without GnRH at the onset of the 5-day CO-Synch + Controlled Internal Drug Release (CIDR) protocol. *Animal Reproduction Science*, 204, pp. 1-9.
- Katchko, R.A., J.R. Wise, E.A. Benavides, M.A. Ramirez, L. Ayala, F. Xie, C.W. O'Gorman, D.H. Keisler, **R.L. Stanko**, M.R. Garcia. 2017. The effect of leptin on luteal angiogenic factors in the developing porcine corpus luteum. *JSM In Vitro Fertil.* 2(3):1020-1026.
- Book Chapter:
Ramirez, M.A. A.A. Arellano, F. Xie, E.A. Benavides, R.A. Katchko, L. Ayala, A. Calderon, R.A. Flores, J.M. Escudero, D.H. Keisler, **R.L. Stanko**, M.R. Garcia. 2017. Role of Leptin in the Development of the Corpus Luteum, In: *Leptin: Production, Regulation and Functions*, Nova Science Publishers, pg 74-105.
- Wiles, J. R., R.A. Katchko, E.A. Benavides, C.W. O'Gorman, J.M. Escudero, D.H. Keisler, **R.L. Stanko**, and M.R. Garcia. 2014. The effect of leptin on luteal angiogenic factors during the luteal phase of the estrous cycle. *Anim. Reprod. Sci.* Vol. 148, Issues 3-4, pp. 121-129.
- Rosales-Nieto, C.A., H.G. Gamez-Vazquez, J. Gudino-Reyes, E.A. Reyes-Ramirez, M. Eaton, **R.L. Stanko**, C.A. Meza-Herrera, A. Gozalez-Bulnes. 2011. Nutritional and Metabolic modulation of the male effect on the resumption of ovulatory activity in goats. *Animal Reproduction Sci.* 51:115-122.
- O'Gorman, C. W., Y. Matsumoto, **R.L. Stanko**, D.H. Keisler, M.R. Garcia. 2010. Effects of acute fasting and age on leptin and peroxisome proliferator-activated receptor gamma (PPAR γ) production relative to fat depot in pigs. *J. Anim. Phys. Anim. Nutr.* 94:e266-276.
- Bullock, S.L., Hewitt, D.G., **Stanko, R.L.** Dowd, M.K., Rutledge, J., and Draeger, D.A. 2010. Plasma gossypol dynamics in white-tailed deer: Implications for whole cottonseed as a supplemental feed. *Small Ruminant Research* 93:165-170.
- Teliz-Triujeque, R., R.H. Williams, J.A. Ortega-S., C.W. Hanselka, E.A. Gonzalez-Valenzuela, J.A. Hinojosa, and **R. Stanko**. 2009. Evaluation of a total ranch management workshop as an educational tool to transfer technology in Mexico. *TX J. Ag. & Natural Resources*, 22:43-54.

- Jackson, R.H., S.D. Lukefahr, **R.L. Stanko**, and D.O. Flores. 2008. Testosterone and dihydrotestosterone production in genetically furless and furred male rabbits and effects on growth. WRSa - 9th world Rabbit Congress, July 10-13, 2008-Verona - Italy. pp 137-141.
- Saldarriaga, J.P., D.A. Cooper, J.A. Cartmill, J.F. Zuluaga, **R.L. Stanko**, and G.L. Williams. 2007. Ovarian, hormonal, and reproductive events associated with synchronization of ovulation and timed appointment breeding of *Bos indicus*-influenced cattle using intravaginal progesterone, gonadotropin-releasing hormone and prostaglandin F_{2α}. J. Anim. Sci. 85:151-162.
- Kanani, J., S.D. Lukefahr and **R.L. Stanko**. 2006. Evaluation of tropical forage legumes (*Medicago sativa*, *Dolichos lablab*, *Leucaena leucocephala*, and *Desmanthus bicornutus*) for growing goats. Small Ruminant Research 65: 1-7.
- Y. Matsumoto, C. W. O’Gorman, E. Gonzales, D. H. Keisler, **R. L. Stanko**, M. R. Garcia. Effects of Development, Estrous Cycle, and 17b-Estradiol on Adipocyte Leptin, ERa, and ERb Gene Expression in Gilts. J. Anim. Veterin. Advan. 2006 5:762-770.
- Amstalden, M., D. A. Zieba, M. R. Garcia, **R. L. Stanko**, T. H. Welsh Jr. W. H. Hansel. 2004. Evidence that lamprey GnRH-III does not release FSH selectively in cattle. Reproduction. 127:35-43.
- Amstalden, M, D.A. Zieba, J.F. Edwards, P.G. Harms, T.H. Welsh, Jr., **R.L. Stanko**, and G.L. Williams. 2003. Leptin acts at the bovine adenohypophysis to enhance basal and Gonadotropin-Releasing Hormone-mediated release of LH: differential effects are dependent upon nutritional history. Biology Reprod. 69:1539-1544.
- Amstalden M., M. R. Garcia, **R. L. Stanko**, S. E. Nizielski, C. D. Morrison, D. H. Keisler, and G. L. Williams. 2002. Central infusion recombinant ovine leptin normalizes plasma insulin and stimulates a novel hypersecretion luteinizing hormone release after short-term fasting in mature beef cows. Biol. Reprod., 66:1555-1561.
- Amstalden, M., M. R. Garcia, S. W. Williams, **R. L. Stanko**, S. E. Nizielski, D. H. Keisler, and G. L. Williams. 2000. Leptin gene expression, circulating leptin, and luteinizing hormone pulsatility are acutely responsive to short-term fasting in prepubertal heifers: Relationship to circulating insulin and insulin-like growth factor -I. Biol. Reprod. 63:127-133.
- Garcia M.R., M. Almstalden, S.W. Williams, **R.L. Stanko**, C.D. Morrison, D.H. Keisler, S.E. Nizielski, and G.L.Williams. 2002. Serum leptin and its adipose gene expression during pubertal development, the estrous cycle, and different seasons in cattle. J. Anim. Sci. 80:2158-2167
- Williams, S. W., **R. L. Stanko**, M. Amstalden, C. D. McKown, and G. L. Williams. 2002. Comparison of three approaches for synchronization of ovulation for timed artificial insemination in Brahman-influenced cattle managed on the Texas gulf coast. J. Anim.Sci. 80:1173-1178.
- Williams GL. Amstalden M. Garcia MR. **Stanko RL**. Nizielski SE. Morrison CD. Keisler DH. 2002. Leptin and its role in the central regulation of reproduction in cattle. Domest. Anim. Endocrinol. 23(1-2):339-49.
- Rasor, C. C., M. G. Thomas, R. M. Enns, H. C. Salazar, H. M. Zhang, G. L.Williams, **R. L. Stanko**, R. D. Randel, and J. Rios. 2002. Allelic and genotypic frequencies of the leptin gene Sau3AI restriction fragment length polymorphism and evaluation of its association to age of puberty in cattle in the southwestern United States and Northern Mexico. Prof. Anim. Scientist 18:141-146.
- Williams, G. L. and **R. L. Stanko**. 1999. Dietary fats as reproductive nutraceuticals in cattle. Proc. Amer Soc Anim. Sci., www.org.
- P. Fajersson, **R. L. Stanko** and G. L. Williams. 1999. Distribution and repeatability of anterior pituitary responses to GnRH and relationship of response classification to the postpartum anovulatory interval of beef cows. J. Anim. Sci. 77:3043-3049.

Gazal, O.S., L.S. Leshin, **R.L. Stanko**, L. L. Anderson, and G.L. Williams. 1998. Pulsatile release of gonadotropin-releasing hormone into third ventricle cerebrospinal fluid of cattle: Correspondence with the tonic and surge release of luteinizing hormone and its tonic inhibition by suckling and neuropeptide Y. *Biol Reprod.* 59: 676-683

Proceedings

Williams, G.L., **R.L. Stanko**, and M. Amstalden. 2015. Evolving concepts in the development and application of synchronization protocols for fixed-time AI in *Bos indicus*-influenced cattle BEE SYNCH I and II. Proceedings, 61st Annual TAMU Beef Cattle Short Course, pp. E-18 – E25.

Abstracts

S.D. Nelson, **R.L. Stanko**, C. Donato-Molina, T. Machado, S. Chumbley, D. Sotomayor, K. Jayachandran, and M. Bhat. Getting occupational student training in agricultural research through novel workshops. Panel: *Investing in Equity & Agriculture: USDA-funded Collaborations at Hispanic-Serving Institutions*. A Community on Ecosystem Services (ACES) Conference. Austin, TX. Dec. 9-12, 2024 (Invited).

V.V. Flores, J.A. Martinez, M. R. Garcia, and **R.L. Stanko**. 2019. *Reproductive performance of Dorper ewes with varying days postpartum to ram introduction in the non-breeding season*, (Abstract PSX-38, e-poster: 2019 Annual ASAS-CSAS. Austin, TX, July 8-11, 2019).

Stanko, R.L., V.V. Flores, J.A. Martinez, and E.C. Taylor. 2018. *Utilization of Hair Sheep as an alternative small ruminant in South Texas*, (Invited Conference Abstract, oral: 72th Annual Subtropical Agriculture and Environments Society. Monte Alto, TX, Feb. 9, 2018).

Rocha, T.C., J. Ramirez, B.B. Carpenter, C. Howell, J. King, T.J. Machado, and **R.L. Stanko**. 2017. *Prostaglandin at Initiation of 7-d CO-Synch + CIDR Protocol Improves Estrus Response but not Pregnancy Rate*. (Abstract 73: Southern Section, American Society of Animal Science. Franklin, TN. Feb. 4, 2017).

Scarpa, J.O, M.M. O'Neil, R.C. Cardoso, **R.L. Stanko**, and G.L. Williams. 2017. Follicle dynamics and fertility at fixed-time AI of *Bos indicus*-influenced beef cows synchronized with 5-Day Bee Synch + CIDR protocol with or without GnRH on day 0. (Abstract 480: 2017 ASAS-CSAS Annual Meeting, Baltimore, MD; July 8-12, 2017).

Preston, R., R.A. Katchko, E.A. Benavides, C.W. O'Gorman, D.H. Keisler, K.C. McCuiston, **R.L. Stanko**, M.R. Garcia. 2017. Spatial and temporal identification of leptin and OB-Rb in the developing porcine corpus luteum. Fall 2017. 14th Annual Pathway Student Research Symposium. 3rd Place Masters Poster Presentation. Tarleton State University.

Preston, R., R.A. Katchko, E.A. Benavides, C.W. O'Gorman, D.H. Keisler, K.C. McCuiston, **R.L. Stanko**, M.R. Garcia. 2017. Spatial and temporal identification of leptin and OB-Rb in the developing porcine corpus luteum. Fall 2017. Javelina Research Symposium.

J.A. Martinez, S.R. Joseph, H.C. Nelthrop, S.A. Lakos, H.G. Kattesh, S.A. Lockwood, B.E. Gillespie, **R.L. Stanko**, and R.W. Godfrey. 2017. Cortisol Dynamics in young Senepol Cattle. (Abstract 39: Annual USDA, National Institute of Food and Agriculture (NIFA), Hispanic Serving Institutions (HSI) National Principle Investigators meeting, Albuquerque, NM; Feb. 16-18)

Taylor, E.C., J. A. Reyes, M.R. Garcia, and **R. Stanko**. 2016. Reproductive parameters of Dorper ewes in south Texas. *J. Anim. Sci.* Vol. 94, Suppl. 5. **Abstract 1689**, p.823.

North American Colleges and Teachers of Agriculture (NACTA) Conference

62nd Annual, June 21-24, 2016, Univ. of Hawaii, Manoa.

Stanko, R.L., S.D. Nelson, T.J. Machado, G. L. Schuster, C. Donato-Molina and Steven Lukefahr. 2016. STEP UP to USDA Career Success Program Participation Increased Graduation Rates and Final GPA of Undergraduate Agriculture Students from South Texas. Absrt. 2016-0137. NACTA Journal, Vol. 60, Suppl. 1, p. 105.

Nelson, S.D., **Randy Stanko**, Tanner Machado, Greta Schuster and Consuelo Donato-Molina. 2016 Finding balance in undergraduate research for graduate school and career preparation in agriculture sciences. Absrt. 2016-079. NACTA Journal Vo. 60, Suppl. 1, p. 16.

McCustion, K., R. Stanko, and C. Loest. 2016. The LEADERS Program: Encouraging Hispanic Students to Pursue Advanced Degrees in Animal Science. Absrt. 2016-172. NACTA Journal Vo. 60, Suppl. 1, p. 114.

North American Colleges and Teachers of Agriculture (NACTA) Conference

61st Annual, June 16-20, 2015, Athens, GA.

Stanko, R.L., S.D. Nelson, T.J. Machado, and G. L. Schuster, and C. Donato-Molina. 2015. Challenges and Opportunities for Underrepresented Agriculture Students in obtaining USDA Job Training in the STEP UP to USDA Career Success Program. Absrt. 2015-0143. NACTA Journal, Vol. 59, Suppl. 1, p. 77.

Fall 2015. 12th Annual Pathways Student Research Symposium

A Calderon, RA Flores, AA Arellano, L Ayala, V. Garza, **RL Stanko**, MR Garcia. *Regulation of Luteal Leptin and Vessel Formation in the Early Caprine Corpus Luteum.*

AA Arellano, MA Ramirez, A Calderon, L Ayala, RA Flores, **RL Stanko**, MR Garcia. *Leptin rescues corpora luteal development in leptin deficient conditions.*

NIFA –Beltsville Area, Hispanic-Serving Institutions Grants Program, New Project Director’s Training and Semi-Annual Conference, Jan. 8-11, 2014. Beltsville, MD

Nelson, S.D., T. Machado, and **R. Stanko**. 2014 STEP UP to USDA Career Success. USDA/NIFA HIS Award #2011-38422-30826. (poster)

American Society of Animal Sci., Southern Section Meetings, February 2-4, 2014. Dallas, TX

Ayala, L. A., A. Arellano, A. Calderon, R.A. Flores, E.C. Taylor, **R.L. Stanko**, and M.R. Garcia. 2014. Age influences the expression of estrogen receptor isoforms alpha and beta in the choroid plexus of developing gilts. ASAS Southern Section (SAAS Meeting, Dallas, TX) 46:abstract, p. 17-8.

North American Colleges and Teachers of Agriculture (NACTA) Conference

60th Annual, June 25-28, 2013, Bozeman, MT.

Donato, C., S.D. Nelson, G. Schuster, **R.L. Stanko**, and T. Machado. 2014. Preparing Hispanic Students to be Leaders in their Communities. Absrt. 2014-0074. NACTA Journal, Vol. 58, Suppl. 1, p.48-49.

Stanko, R.L., S.D. Nelson, T.J. Machado, and G. L. Schuster, and C. Donato-Molina. 2014. Engaging Underrepresented Agriculture Students through Research and Job Training in the STEP UP to USDA Career Success Program. Absrt. 2014-0175. NACTA Journal, Vol. 58, Suppl. 1, p. 74.

Society for the Study of Reproduction Annual Meeting, July 19-23, 2014. Grand Rapids, MI

Calderon, A., R.A. Flores, A.A. Arellano, L. Ayala, V. Garza, **R.L. Stanko**, and M.R. Garcia. 2014. Regulation of Leptin in Early Corpora Lutea Development. Absrt. #213.

Flores, R.A., A. Calderon, L. Ayala, F. Xie, A. Arellano, M. Ramirez, M.R. Garcia, and **R.L. Stanko**. 2014. Abstr. #214.

Ayala, L., A.A. Arellano, R.A. Flores, A. Calderon, E.C. Taylor, **R. L. Stanko**, and M.R. Garcia. 2014. Age and leptin influence estrogen nuclear receptor isoforms in the choroid plexus of developing gilts. Absrt. #214.

National Agri-Science Education Conference. Nov. 19-22, 2014. Miami, FL.

Pena, Patricia, Gregory Sample, **Randy L. Stanko**, and Shad D. Nelson. 2014. STEP UP Summer Internship with USDA-ARS Veterinary Animal Research Service. USDA-HSI Grantee Conference (poster).

Donato-Molina, C., **R. Stanko**, S. Nelson, T. Machado, and G. Schuster. Engaging Underrepresented Students through Ag-Related Career and Research Training in the ‘STEP UP to USDA Career Success’ Program (poster).

Javelina Research Symposia Fall 2013.

Arellano, A.A., M.A. Ramirez, A. Calderon, L. Ayala, R.A. Flores, D.H. Keisler, **R.L. Stanko**, and M.R. Garcia. 2013. Leptin may play a role in development of the goat corpus luteum. Javelina Research Symposium, October 16, 2013.

Ayala, L. A.A. Arellano, A. Calderon, R.A. Flores, E.C. Taylor, **R.L. Stanko**, M.R. Garcia. 2013 Estrogen receptor alpha and beta expression in the choroid plexus changes as puberty approaches. Javelina Research Symposium, October 16, 2013. 2nd Place in the Poster Presentation Competition.

Flores, R.A., A Calderon, L. Ayala, F. Xie, A.A. Arellano, M. Ramirez, E.C. Taylor, **R.L. Stanko**, and M.R. Garcia. 2013. Characterizing proangiogenic factors in early corpus luteum development in the porcine. Javelina Research Symposium, October 16, 2013.

Center for Education and Training in Agricultural and Related Sciences {CETARS}-2nd Symposium: August 12-13, 2013. University of Puerto Rico Mayaguez.

Nelson, S.D., **R. Stanko**, and T. Machado. 2013. STEP UP to USDA Career Success: A Bridge Model for 2- &4-Yr Institutions: Project Progress Presentation. 11:00 am 8/12/13.

Stanko. R. L. Ayala, M.D. Mahan, M.A. Ramirez, E.A. Aguirre, A. Calderon, A.A. Arellano, F. Xie, and M.R. Garcia. 2013. Influence of weaning age, diet, and season of birth on age at puberty in *Bos indicus*-influenced heifers. Invited; 10:30 am 8/13/13.

Ayala, L. A. Calderon, A.A. Arellano, E.C. Taylor, R.A. Flores, **R.L. Stanko**, M.R. Garcia. 2013. The effect of age on the expression of estrogen receptors alpha and beta in the choroid plexus. Abstract and Poster in USDA-HSI student session. 2 pm to 4pm, 8/12/13.

Donato, C., S.D. Nelson, G. Schuster, **R.L. Stanko**, and T. Machado. 2013. Preparing hispanic students to be leaders in their communities. Abstract and Poster in USDA-HSI student session. 2 pm to 4pm, 8/12/13.

Nelson, S.D., **R. Stanko**, T Machado, G. Schuster. 2013. Providing underrepresented agriculture students a STEP UP to USDA career success. 59th Annual NACTA Conference, Blacksburg, VA, Abstr. 2013-0029.

McCuistion, K., D. Kinkel, S. Lukefahr, M. Garcia, S. Henke, T. Machado, **R. Stanko**, Z. Lopez, A. Coronado. 2013. Improving student success through professional development opportunities. 59th Annual NACTA Conference, Blacksburg, VA, Abstr. 2013-0278.

L. Ayala, A. Calderon, F. Xie, M.A. Ramirez, A. Arellano, M.R. Garcia, **R.L. Stanko**. 2013. Effect of early weaning and diet on age at puberty in *Bos indicus* influenced heifers. J. of Anim. Sci., Southern Section. Abstr. 35.

A. Arellano, L. Ayala, M. Ramirez, A. Calderon, R. Flores, D. Keisler, **R. Stanko**, M. Garcia. 2013. Leptin is involved in the vascularization process of the corpus luteum. Undergraduate Student Oral Competition. Journal of Anim. Sci., Southern Section. Abstr. 2.

Javelina Research Symposia Spring 2013.

Arellano, A.A., M.A. Ramirez, A. Calderon, L. Ayala, R.A. Flores, D.H. Keisler, **R.L. Stanko**, and M.R. Garcia. 2013. Leptin is involved in the vascularization of the corpus luteum. Poster Presentation, 1st Place.

AA Arellano, MA Ramirez, A Calderon, L Ayala, RA Flores, **RL Stanko**, MR Garcia. Leptin plays a role in the vascularization of the corpus luteum. 2012 Ronal E. McNair Scholars 17th Annual Summer Research Presentation Luncheon (Abstract).

AA Arellano, MA Ramirez, A Calderon, L Ayala, RA Flores, **RL Stanko**, MR Garcia. Leptin is involved in vascularisation of developing luteal tissue. 2012 Biol. Reprod. 81:180 (Abstract).

MA Ramirez, F Xie, EA Benavides, RA Katchko, L Ayala, DH Keisler, **RL Stanko**, MR Garcia. Leptin is involved in normal luteal development. 2012. Biol. Reprod. (Abstract).

Silguero, R., E. Biediger, M. Clayton, R. Lyons, E. Montemayor, H.Martinez, **R. Stanko**, and S. Nelson. 2012. Invasive tanglehead management using broadcast herbicide applications. 2012 Texas Section Society for Range Management Meeting, Oct. 10-12, 2012, Fredericksburg, TX.

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Research Proposals Submitted and Funded

1995

Houston Livestock Show & Rodeo. *Effect of feeding commercial calf creep on growth, IGF-I, and age at puberty in beef heifers*, **\$6,200**. Principal Investigator

1998

Houston Livestock Show & Rodeo. *Characterization of breeding season(s) of Spanish, and Spanish x Boer, meat goats in South Texas*, \$3,500. Principal Investigator (**\$1,667**)

1999

Houston Livestock Show & Rodeo. *Disruption of uterine development: A potential method to prevent unwanted pregnancy in beef heifers* , **\$2,636**. **R.L. Stanko** Principal Investigator.

2002

King Ranch Inc., Kingsville, TX. *Funding for Kevin Porter graduate assistantship*, **\$20,925.00**. Co-PI's **R.L. Stanko**, S. Lukefahr, J.A. Ortega.

USDA-HSI. *Meeting the experiential needs of South Texas students for careers in agricultural science*, **\$299,974**. Co-PIs: S. Nelson and **R.L. Stanko**.

2003

Texas Beef Initiative. *Application of a Modern Appointment Breeding Scheme to Achieve Improved Beef Quality and Increase Net Returns in South Texas Commercial Beef Herds*, **\$56,067**. PI: G.L Williams, Co-PIs: L.L. Falconer and **R.L. Stanko**

2004

USDA/CREES-HSI Education grant #2004-38422-14608, Title: ***Teaching and mentoring south Texas Students for Careers in Agricultural Science and Research***. Overall goals: to provide experiential knowledge and skills of agricultural laboratory procedures, agricultural research methodologies, and professional development to the underserved students at TAMUK. Responsibilities of Co-PI (8% effort): experimental design, supervision of undergraduate students and their experiments, ordering of supplies, writing progress reports. PIs Shad Nelson and Jamie Laurenz, **Co-PI Randy L. Stanko, \$300,000.**

2005

TAMUK Student Service Fee Committee; Livestock Judging Team Award = **\$7,450.00**

NIFA USDA/CREES-HIS Education grant #2005-38422-15945, Ongoing. Title: ***Enhancing Professional Development of south Texas Graduate Students***. Overall goals: to provide experiential knowledge of laboratory procedures, research methodologies, and professional development to the underserved graduate students at TAMUK. Responsibilities of Co-PI (8% effort): experimental design, supervision of graduate students and their experiments, ordering of supplies, writing progress reports. Co-PIs M.R. Garcia, **J.C. Laurenz & Randy L. Stanko. \$120,000.**

2006

TAMUK Student Service Fee Committee; Livestock Judging Team Award = **\$7,600.00**

NIFA USDA-HSI. ***Increasing student learning and career development through agricultural and natural resources based research***, **\$296,000.** Co-PIs. S. Nelson J.C. Laurenz, T.L. McGehee and **R.L. Stanko.** Funding period 7/1/06 to 6/30/08, TX AgriLife component **\$90,000.**

2007

TAMUK Student Service Fee Committee reviewed; Livestock Judging Team Award = **\$7,450.00**

MBRS-SCORE NIH. ***Endocrine relationships preceding precocious puberty***. **\$200,000.** PI. **R.L. Stanko,** Funding period 2/1/07 to 1/31/11.

Comanche Maverick Ranch. Effects of Prolonged Cottonseed Consumption on White-tailed Deer, **\$13,413.00.** Co-PIs. D. Hewitt and **R.L. Stanko.** Funding period Jan. 1, 2007 through December 31, 2007.

2008

TAMUK Student Service Fee Committee reviewed; Livestock Judging Team Award = **\$7,800.00**

Comanche Maverick Ranch. Effects of Prolonged Cottonseed Consumption on White-tailed Deer, Increased award by **\$24,300.** Co-PIs. D. Hewitt and **R.L. Stanko.** Funding period Jan. 1, 2006 through August 31, 2009. Total Award \$56,927.00.

2009

NIFA USDA-HSI. *Experiential learning and career development in agricultural and natural resources*, **\$295,000**. Co-PIs. S. D. Nelson, K.C. McCuiston and **R.L. Stanko**. Funding period 7/1/09 to 6/30/11, TAES component **\$90,000**.

TAMUK Student Service Fee Committee reviewed; Livestock Judging Team Award = **\$7,800.00**

2010

FAZD Center FY'10-FY'11 Project Funding. (FAZD@ag.tamu.edu). Increasing Public Awareness of Emerging Vector-Borne Diseases. P.I. T. Hairgrove, D.V.M. Collaborators. P. Teal D.V.M. and **R.L. Stanko**. \$37,000.00 [**TAMUK portion \$8,500**].

USDA-HSI. *Improving student success through professional development opportunities*, **\$290,000**. Project Director: K. McCuiston, Co-PIs. D. Kinkel, S. Lukefahr, M.R. Garcia, S. Henke, T. Machado, and **R.L. Stanko**. **Funding period 7/1/10 to 6/30/13**.

NIH, SC3.(1 SC3 GM096941-01). *Role of Endocrine and Nutritional Regulation of Precocious Puberty*. P.I. **RL. Stanko**. \$300,000. **(Not funded)**.

TAMUK University Research Awards (URA). *Endocrine and Nutritional Regulation of Puberty*. P.I. **R.L. Stanko**. **\$10,000**.

TAMUK Student Service Fee Committee reviewed; Livestock Judging Team Award = **\$7,800.00**.

2011

\$4,400,000. NIFA USDA-NIFA HSI Collaborative Grants. ***STEP UP to USDA Career Success: Science, Technology and Environmental Programs for Undergraduate Preparation to USDA Career Success***. PD: S.D. Nelson (TAMUK Lead), CoPDs: **R. Stanko**, Louzada, Ruppert, Machado, Schuster, Setamou, Melgar; (DelMar College) J. Halcomb; (STC) Debbie Villalon; (TSTC) A. Duarte; (UTPA) M. Persans. \$1,760,000 TAMUK. 2011-2015. **Funded at \$3,315,000; YEAR 1 ('11-'12) to TAMUK = \$396K**.

NIH, SC3.(1 SC3 GM096941-01). *Role of Endocrine and Nutritional Regulation of Precocious Puberty*. P.I. **RL. Stanko**. \$300,000. **(re-submitted, not funded)**.

TAMUK Student Service Fee Committee reviewed; Livestock Judging Team Award = **\$7,800.00**.

2012

TAMUK Student Service Fee Committee reviewed; Livestock Judging Team Award = **\$7,600.00**.

USDA-NIFA HSI Collaborative Grants. ***STEP UP to USDA Career Success: Science, Technology and Environmental Programs for Undergraduate Preparation to USDA Career Success***. PD: S.D. Nelson (TAMUK Lead), CoPDs: **R. Stanko**, Louzada, Ruppert, Machado, Schuster, Setamou, Melgar; (DelMar College) J. Halcomb; (STC) Debbie Villalon; (TSTC) A.

Duarte; (UTPA) M. Persans. \$1,760,000 TAMUK. 2011-2015. *Funded at \$3,315,000; YEAR 2 ('12-'13) to TAMUK \$446K. Re-submit annually.*

2013

USDA-NIFA HSI Collaborative Grants. *STEP UP to USDA Career*

Success: Science, Technology and Environmental Programs for Undergraduate Preparation to USDA Career Success. PD: S.D. Nelson(TAMUK Lead), CoPDs: **R. Stanko**, Louzada, Ruppert, Machado, Schuster, Setamou, Melgar; (DelMar College) J. Halcomb; (STC) Debbie Villalon; (TSTC) A. Duarte; (UTPA) M. Persans. \$1,760,000 TAMUK. 2011-2015. **Funded Year 3 ('13-'14). TAMUK portion \$421,000.** 9/1/2011 to 8/31/2015. **Re-submit annually.**

TAMUK Student Service Fee Committee reviewed; Livestock Judging Team Award = **\$7,800.00.**

TAMUK Council for Undergraduate Research (TCUR) “*Comparison of 5-Day CO-Synch + CIDR vs. PG+5-Day CO-Synch +CIDR to effectively synchronize estrus in Santa Gertrudis beef heifers*”. P.I. RL. Stanko. **\$2,000.00 Funded.**

TAMUK University Research Award. *Evaluating the Ecological Benefits of Management-Intensive Grazing.* P.I. D.E. Ruppert. **\$15K. Funded.** Co-PIs: S. Lukefahr, J.A. Ortega, **R. Stanko**, D. Wester, S. Rideout-Hanzak.

NIFA USDA-HIS. McCuiston, K.C. and C. Loest.2013.***The LEADERS Program: Learning, Enhancing, and Developing Experiential Research Skills.*** USDA Hispanic Serving Institutions grant program. FY 2013-2017. \$800,000 (**\$200,000 per year**). (ANSC faculty are all collaborators). Not included in **R.L. Stanko** Funding total.

2014

TAMUK Student Service Fee Funding;TAMUK Livestock Judging Team Award = **\$7,800.00.**

USDA-NIFA HSI Collaborative Grants. *STEP UP to USDA Career*

Success: Science, Technology and Environmental Programs for Undergraduate Preparation to USDA Career Success. PD: S.D. Nelson(TAMUK Lead), CoPDs: **R. Stanko**, Louzada, Ruppert, Machado, Schuster, Setamou, Melgar; (DelMar College) J. Halcomb; (STC) Debbie Villalon; (TSTC) A. Duarte; (UTPA) M. Persans. \$1,760,000 TAMUK. 2011-2015. **Funded Year 4 ('14-'15). TAMUK portion \$436,000.** Period 9/1/2011 to 8/31/2015. **Final Year.**

TAMUK Council for Undergraduate Research (TCUR) “*Effect of age and season on fertility and fecundity of Dorper ewe lambs*”. P.I. RL. Stanko. **\$3K.**

2015

TAMUK Student Service Fee Funding;TAMUK Livestock Judging Team Award = **\$8,000.00.**

USDA-NIFA HSI Collaborative Grants. ***STEP UP to USDA Career***

Success: Science, Technology and Environmental Programs for Undergraduate Preparation to USDA Career Success. PD: S.D. Nelson(TAMUK Lead), CoPDs: **R. Stanko**, Louzada, Ruppert, Machado, Schuster, Setamou, Melgar; (DelMar College) J. Halcomb; (STC) Debbie Villalon; (TSTC) A. Duarte; (UTPA) M. Persans. TAMUK. 2011-2015. **Funded at \$800,000-\$850,000 per year. TAMUK portion \$436,000** : 9/1/2014 to 8/31/2015.

Breakdown over grant four years:

2011-12 Yr 1 = \$800K (TAMUK \$396K)
2012-13 Yr 2 = \$850K (TAMUK \$446K)
2013-14 Yr 3 = \$825K (TAMUK \$421K)
2014-15 Yr 4 = \$840K (TAMUK \$436K)
Total Yrs 1-4 = \$3,315,000 (TAMUK total = \$1,699,000)

Grant for 2013-14 (and will be resubmitted every year until 2017):

McCustion, K.C. and C. Loest 2013. **Co-PD: R.L. Stanko (as of 2015).** The LEADERS Program: Learning, Enhancing, and Developing Experiential Research Skills. USDA Hispanic Serving Institutions grant program. FY 2013-2017. \$800,000 (**\$200,000 per year**); **9/01/2015 to 8/31/16 = \$250,000.00**

TAMUK Council for Undergraduate Research (TCUR) “*Effect of age and season on fertility and fecundity of Dorper ewe lambs*”. P.I. RL. Stanko. **\$3K.**

USDA-NIFA HSI Collaborative Grants. **STEP 2 to USDA Research**

Success: South Texas Excellence Program to USDA Research Success. PD: R. Gilkerson (UTPA Lead) and **R. Stanko**. Co-PDs: S.D. Nelson, M. Persans (UTPA), T. Machado;

(STC) D. Murray; (TSTC) N. Mendoza. **\$1,000,000** . 2015-2019. TAMUK = **\$361K**

TAMU AgriLife Research Sustainable Solutions for Beef Production Systems (FY’16). ***Improving Sustainability of Livestock and Wildlife Management Using Remote Sensing Technology.*** PI: Jamie L. Foster, *Co-PI’s*: M. Clayton and J. McGuinty TAMU AgriLife Extension, J. Landivar and **R. Stanko** TAMU AgriLife Research. **\$25,000.**

2015 to 2019 USDA-NIFA HSI Collaborative Grants.

Lead-UT El Paso, J. Espiritu (PD); TAMUK-Nelson (PD), **Stanko**, Machado, Schuster. **Wheels of Change:** A Consortium to Develop Leaders in Agriculture in the Areas of Sustainable Energy and Natural Resources. FY 2015-2018, \$2,000,000. **TAMUK portion \$440,000. \$110,000/yr.**

2016

TAMUK Student Service Fee Committee reviewed; Livestock Judging Team Award = **\$5,000.00**

2016-2020 USDA-NIFA HSI Collaborative Grants.

Fox, J. (PD) TAMU-CC; TAMUK-Nelson, S.D. (PD), G. Schuster, **R Stanko**, C. Simpson; UTRGV-Gilkerson, R. (PD); DelMar-Halcomb, J. (PD); Texas A&M University AgriLife-Landivar, J. **USDA Education and Research Experience in Unmanned Aircraft Vehicles for Precision Agriculture.** FY 2016-2019. \$1,000,000; TAMUK portion \$220,000; **\$52,000 1st year**, then \$56,000

2016-2020 USDA-NIFA HSI Collaborative Grants.

Lead-TAMUK Nelson (PD), Ruppert, **Stanko**, Schuster, Machado Co-PIs. **START NOW:** Student Training in Agriculture Research Techniques by Novel Occupational Workshops. FY 2016-2019. \$2,000,000; TAMUK portion \$1,000,000, or **\$250,000/yr.**

Machado, T., S. Nelson, and R. Stanko. Increase Qualified Hispanic Student Enrollment in Pathways Programs through Natural Resources Career Development Program. U.S. Department of Agriculture-Natural Resources Conservation Service (2016-2017; #69-3A75-16-915), \$61,600.

2017

Natural Resources Career Development Program (NRCS) Grant. Lead-TAMUK Machado (PD), Nelson, **Stanko** Co-PIs. Natural Resources Career Development Program. Preparing underrepresented students for careers in NRCS. **\$100,000**.

TAMUK Student Service Fee Committee reviewed; Livestock Judging Team Award = **\$5,000.00**

Title V I-Care, PI: Randy L. Stanko, *Efficacy of Commercial Sheep & Meat Goat Anthelmintic*. **\$2,500.00**.

2018

Natural Resources Career Development Program (NRCS) Grant. Lead-TAMUK Machado (PD), Donato, **Stanko** Co-PIs. *Provide NRCS educational tours, internships and career opportunities for Hispanic and other students*. **\$100,000**. (2018-2020; NR183A750015C004).

USDA-APHIS Cattle Fever Tick Eradication Program (CFTEP), Lead-TAMUK Schuster, Co-PI: Hewitt, DeYoung, Ortega, Hilton, Bell, **Stanko**. *Feed-through and Spray on Treatments of Insect Growth Regulators for Cattle and Wildlife* **\$244,517.00**

HerdX, Inc., PD: N. Bell; Co-PDs: T.M. Machado and R.L. Stanko; Evaluating the effect of HerdX Electrolyzed Water on the rumen microbiome and ruminal fermentation parameters in steers consuming a forage or concentrate ration. 8/01/2018 to 5/31/19 = **\$14,263.66**

TAMUK Student Service Fee Committee reviewed; Livestock Judging Team Award = **\$8,000.00**

2019

Natural Resources Career Development Program (NRCS) Grant. Lead-TAMUK Machado (PD), Donato, **Stanko** Co-PIs. *Provide NRCS educational tours, internships and career opportunities for Hispanic and other students*. **\$155,000**. (2019-2021; NR193A750027C010).

TAMUK Student Service Fee Committee reviewed; Livestock Judging Team Award = **\$8,000.00**

2020

TAMUK Student Service Fee Committee reviewed; Livestock Judging Team Award = **\$5,500.00**

2021

USDA NIFA Higher Education Multicultural Scholars Program (MSP): **Multicultural-Scholars Pre-Vet Experiential Ag. Learning Grant (M-SPEAL)** 2021. PD: T. Machado, Co-PIs: R.L. Stanko, M.C. Donato. **\$200,000**, over 4-years

NIFA USDA-HSI, April 22, 2021 Collaborative Grant with Florida international University and University of Puerto Rico at Mayaguez

Program: Hispanic Serving Institutions Education Grants Program

Proposal Number: 2021-03343

Project Director: Randy Louis Stanko, TAMUK Lead Institution

Proposal Title: ***GO START NOW: "Getting Occupational Student Training in Agricultural Research Through NOvel Workshops"***

\$975,314 over 4-years. TAMUK Portion = **\$540,314**;

FIU Portion = \$240,000; UPRM Portion = \$195,000

Machado, T., C. Donato, R. Stanko, and S. Nelson. Natural Resource Career Development Program and NRCS Educational Tours. U.S. Department of Agriculture-Natural Resources Conservation Service (2021-2023), **\$150,000**.

2022

USDA-NRCS_COMM-22_NOFO0001139, Partnership for Climate-Smart Commodities: “Permanently reshaping the national beef herd through grass roots genetic selection for climate-smart outcomes”. PI Elizabeth Staiger & **Co-PI Randy L. Stanko (TAMUK)**, Lead Project Mgr. Mark Allen, Leachman Cattle of Colorado, Fort Collins, CO; Brahman Country Genetics & Brahman Country Beef, Wharton, TX; Zoetis, Kalamazoo, MI. **\$4,732,841**.

2023

Natural Resources Career Development Program (NRCS) Grant. Lead-TAMUK Machado (PD), Donato, **Stanko** Co-PIs. *Provide NRCS educational tours, internships and career opportunities for Hispanic and other students.* (2023-2025) **\$155,000**.

2024

Natural Resources Career Development Program (NRCS) Grant. Lead-TAMUK Machado (PD), Donato, **Stanko** Co-PIs. *Provide NRCS educational tours, internships and career opportunities for Hispanic and other students.* (2025-2029) **\$750,000**. Funded (pending TAMUK routing and signatures).