



Muir, James Pierre

Texas A&M AgriLife Research

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Ph.D. Agronomy 1989: University of Florida, USA

- Certificate in African Studies
- Minor in Tropical Agriculture

M.S. Agronomy 1985: University of Florida, USA

B.S. Biology/Ecology 1981: Wheaton College, Illinois USA

Languages:

English, native fluency

Portuguese, native fluency

French, conversant

Spanish, conversant

Fellow: American Society of Agronomy & Crop Science Society of America

Regents Professor: Texas A&M University Systems

Professional and Academic Experience:

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| 2013-Present | 25% teaching appointment at Tarleton State University, Texas |
| 1997-Present | Professor, Texas A&M AgriLife Research, Stephenville |
| 1997 | Winrock/Heifer Project country representative, Moçambique |
| 1989-1997 | Visiting agronomist, Instituto de Produção Animal, Moçambique |
| 1987 | Fulbright-Hays Fellow to Universidade Eduardo Mondlane, Moçambique |

Awards & Recognition:

Elsevier Outstanding Reviewer Status, 2015

Fellow of the Crop Science Society of America, 2014

Texas A&M AgriLife Research Fellow, 2013

Regents Fellow Service Award, 2011

Texas A&M System Vice-chancellor's Award for Excellence in Research, 2010

Fellow of the American Society of Agronomy, 2009.

Texas Environmental Excellence Award finalist, Dairy Phosphorus Focus Project, 2008, 2009.

Merit Award, American Forage & Grassland Council, 2008.

Special Achievement Award for Research, Soil & Crop Science Department, Texas A&M University, 2004.

Agronomy Journal Editors' Citation for Excellence in Manuscript Review, 2002.

Fulbright-Hays Graduate Fellowship, Mozambique, 1988.

Foreign Language Area Scholarships, University of Florida, 1986 & 1987.

Recent invited presentations

9th Symposium on Strategic Management of Pasture and 6th International Grazing Livestock Symposium, Universidade Federal Vicosa, Vicosa Brazil 2019. "Carbon sequestration in grazingland ecosystems."

Drought Management Forum, SEBRAE Pernambuco Brazil 2018. "Mitigating drought in semiarid rangeland."

Animal Science Society of America, invited speaker, Vancouver Canada, 2018. "Livestock systems forage research: agronomy in and beyond the paddock."

International Conference on Forages in Warm Climates, Universidade Federal Minas Gerais Lavras Brazil 2018. "New perspectives on forage legumes in mixed pastures."

Recent Research Articles:

Araújo, A.R., N.M Rodriguez, M.C.P. Rogério, I Borges, E.O.S. Saliba, S.A. Santos, R.C.F.F. Pompeu, F.E.P. Fernandes, J.P. Monteiro, and J.P. Muir. Nutritional evaluation and productivity of supplemented sheep grazing in semiarid rangeland of northeastern Brazil. *Tropical Animal Health and Production* (at press)

Ribeiro Araújo, A., M.C. Pinheiro Rogério, and J.P. Muir, A. Azevedo Alves, A. M. de Vasconcelos, E. Reis Leite, and V.P. Guimarães. 2019. Economic feasibility of finishing lambs in two feeding systems using bovine cheese serum and elephant grass hay produced on-farm as dietary ingredients. *Small Ruminant Research* 170:131-136.

- Cooper, C.E., L.M.T. Aparecido, J.P. Muir, C.L.S. Morgan, J.L. Heilman, and G.W. Moore. 2018. Transpiration in recovering mixed loblolly pine and oak stands following wildfire in the Lost Pines region of Texas. *Ecohydrology* 219:1463-1479.
- Farthing, T., J.P. Muir, A.D. Falk, D. Murray. 2018. Efficacy of seven weed-removal techniques for invasive-Bermudagrass removal strategies in three Texas Ecoregions. *Ecological Restoration* 36:306-314.
- Cooper, C.E., J.G. Vogel, J.P. Muir, and G.W. Moore. 2018. Leaf functional trait responses to changes in water status differ among three oak (*Quercus*) species. *Plant Ecology* <https://doi.org/10.1007/s11258-018-0894-3>
- Pires Pereira, T., E. C. Modesto, D de Deus Nepomuceno, O.F. de Oliveira, R. S. Xavier de Freitas, J.P. Muir, J. C. Batista Dubeux Jr., and J. C. de Carvalho Almeida. 2018. Characterization and biological activity of condensed tannins from tropical forage legumes. *Pesq. Agropec. Bras.* 53:1070-1077.
- Xu, Yifeng, Jamie L. Foster, J.P. Muir, Byron L. Burson, Russell W. Jessup. 2018. Succinic acid production across candidate lignocellulosic biorefinery feedstocks. *American Journal of Plant Sciences* 9:2141-2153.
- Muir, J. P., T. H. Terrill, J. A. Mosjidis, J.-M. Luginbuhl, J.E. Miller, and J.M. Burke. 2018. Harvest regimen changes *Lespedeza cuneata* herbage condensed tannin, fiber and crude protein concentration. *Grassland Science* 64:137-144.
- White, J.A., J.P. Muir, and B.D. Lambert. 2018. Over-seeding cool season-annual legumes and grasses into dormant Tifton 85 Bermudagrass for forage and biomass. *Crop Science* 58:964-971.
- Cooper, C.E., J.P. Muir, J.G. Vogel and G.W. Moore. 2018. Tortoise or hare: will resprouting oaks or reseed pines dominate following severe wildfire? *Forest Ecology and Management* 408:54-66.
- Muir, J.P., L.O. Tedeschi, J.C.B. Dubeux, Jr., M. Peters, and S. Burkart. 2017. Enhancing food security in Latin America with forage legumes. *Archivos Latinoamericanos de Producción Animal.* 25:113-131.

Refereed Review Articles:

- Muir, J.P., W.D. Pitman, F.S. Smith, J. Reilley, and R.A. Shadow. 2018. Domesticating native legumes of the south-central USA. *Native Plants Journal* (at press)
- Muir, J.P., L.O. Tedeschi, J.C.B. Dubeux, Jr., M. Peters, and S. Burkart. 2017. Enhancing food security in Latin America with forage legumes. *Archivos Latinoamericanos de Producción Animal*. 25:113-131.
- Dubeux, J.C.B., Jr., L.E. Sollenberger, J.P. Muir, L.O. Tedeschi, M.V.F. do Santos, M.V. da Cunha, A.C.L. de Mello, and N. DiLorenzo. 2017. Sustainable intensification of livestock production on pastures. *Archivos Latinoamericanos de Producción Animal*. 25:97-111.
- Dubeux, J.C.B., Jr., J.P. Muir, V.X.O. Apolinário, P.K. Ramachandran Nair, M.A. Lira, and L.E. Sollenberger. 2017. Tree legumes: an underexploited resource in warm-climate silvopastures. *Revista Brasileira de Zootecnia* 46:689-703.
- Tedeschi, L., M.A. Fonseca, J.P. Muir, D.P. Poppi, G.E. Carstens, J.P. Angerer, D.G. Fox. 2017. A Glimpse of the Future in Animal Nutrition Science. 2. Current and future solutions. Past and Future Challenges. *Revista Brasileira de Zootecnia* 46:452-469.
- Tedeschi, L., A.K. de Almeida, A.S. Atzori, J.P. Muir, M.A. Fonseca and A. Cannas. 2017. A Glimpse of the Future in Animal Nutrition Science. 1. Past and Future Challenges. *Revista Brasileira de Zootecnia* 46:438-451.
- Foster, J.L., J.P. Muir, J.R. Bow, and E. Valencia. 2017. Biomass and nitrogen content of annual warm-season legumes grown in a semi-arid environment. *Biomass and Bioenergy* 106:38-42.
- Muir, J.P., W.D. Pitman, J.L. Foster and J.C. Dubeux, Jr. 2015. Sustainable intensification of cultivated pastures using multiple herbivore species. *African Journal Range and Forage Science*. 32:97-112.
- Tedeschi, L., J.P. Muir, D.G. Riley, and D.G. Fox. 2015. The role of ruminant animals in sustainable livestock intensification programs. *International Journal of Sustainable Development & World Ecology* 22:452-465.
- Muir, J.P., J.C.B. Dubeux, Jr., J.L. Foster, and W.D. Pitman. 2014. The future of warm-season, tropical, and sub-tropical forage legumes in sustainable pastures and rangelands. *African Journal Range and Forage Science*. 31:187-198.