

CURRICULUM VITAE

TERRY, MARTIN KILMAN
Department of Biology, Geology, and Physical Sciences
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Position: Associate Professor of Biology (appointed 2003, tenured 2009)

EDUCATION

Ph.D., Botany, Texas A&M University (TAMU), 2005.

Dissertation on *Lophophora williamsii* [peyote] and *Astrophytum asterias* [endangered star cactus].

Ph.D., Veterinary Toxicology, TAMU, 1981.

Dissertation on the toxicity and metabolism of hymenoxon, the toxic principle of *Hymenoxys odorata* (Asteraceae).

D.V.M., *magna cum laude*, TAMU, 1976.

A.B., *cum laude*, General Studies, Harvard University, 1971.

As an undergraduate, studied economic botany under Richard Evans Schultes, the patriarch of the ethnobotany of New World psychoactive plants.

PROFESSIONAL EXPERIENCE

Teaching experience at Sul Ross State University

School of Arts and Sciences

Department of Biology

Honors and Awards

Award for Outstanding Teaching at SRSU (May 2007)

Courses taught

BIOL 1401	General Botany
BIOL 2401	Plants and People (lecture and lab)
BIOL 2403	Survey of Human Anatomy and Physiology (lecture and supervision of lab taught by TA)
BIOL 2404	Human Anatomy and Physiology I (lecture and supervision of lab taught by TA)
BIOL 2405	Human Anatomy and Physiology II (lecture and supervision of lab taught by TA)
BIOL 3403	Parasitology (lecture and supervision of lab taught by ANRS staff)

BIOL 3405	Agrostology (lecture and lab)
BIOL 4305	Toxic and Medicinal Plants (undergraduate)
BIOL 4420	Toxicology (Honors)
BIOL 5101	Seminar on Plants in "Primitive" Medicine
BIOL 5101	Seminar on Population Genetics
BIOL 5101	Seminar on Biology and the Law
BIOL 5301	Cacti and Succulents of the Southwest
BIOL 5301	Composites and Legumes
BIOL 5307	Toxic and Medicinal Plants (graduate)
BIOL 5307	History of Ideas in Biology – A Historical Approach
BIOL 5406	Phytochemistry
BIOL 5420	Toxicology

Previous University Teaching Experience

Position: Instructor, BOTN 101, TAMU (as substitute for Dr. Timothy Hall during his faculty development leave), Spring Semester 2002.

Position: Teaching Assistant, BOTN 328 (Plants and People) and BOTN 301 (Taxonomy of Flowering Plants), TAMU, 2001–2002.

Position: Teaching Assistant, BIOL 111 (Introductory Biology), TAMU, Fall 2000.

Position: Veterinary Clinical Associate, Department of Veterinary Physiology and Pharmacology, TAMU. My responsibilities included teaching labs in mammalian physiology and pharmacology for veterinary students.
(1978–1981)

SCHOLARLY ACTIVITIES

Published papers

Terry M, Trout K, Williams B, Herrera T, Fowler N. Limitations to natural production of *Lophophora williamsii* (Cactaceae). III. Effects of repeated harvesting at two-year intervals for six years in a South Texas population. *Journal of the Botanical Research Institute of Texas*: accepted 18 Aug 2014.

Weckesser W and Terry M. 2014. An annotated flora of Reed Plateau and adjacent areas, Brewster County, Texas, U.S.A. *Journal of the Botanical Research Institute of Texas* 8: 353–379.

Kalam MA, Klein MT, Hulsey D, Trout K, Daley P, Terry M. 2013. A preliminary report of mescaline concentrations in small regrowth crowns vs. mature crowns of *Lophophora williamsii* (Cactaceae): cultural, economic, and conservation implications. *Journal of the Botanical Research Institute of Texas* 7: 435–440.

Terry M and Trout K. 2013. Cultivation of peyote: a logical and practical solution to the problem of reduced availability. *Phytologia* 95: 314–320.

Terry M, Trout K, Williams B, Herrera T, Fowler N. 2012. Limitations to natural production of *Lophophora williamsii* (Cactaceae). II. Effects of repeated harvesting at two-year intervals in a South Texas population. *Journal of the Botanical Research Institute of Texas* 6: 567–577.

Terry M, Pepper AE, Strong AW, Tarin DM, Price DM, Manhart JR. 2012. Genetic structure of a population of the endangered star cactus (*Astrophytum asterias*) in southern Texas. *The Southwestern Naturalist* 57: 182–188.

Terry M, Trout K, Williams B, Herrera T, Fowler N. 2011. Limitations to natural production of *Lophophora williamsii* (Cactaceae) I. Regrowth and survivorship two years post harvest in a South Texas population. *Journal of the Botanical Research Institute of Texas* 5: 661–675.

Hulsey D, Kalam M, Daley P, Fowler N, Terry M. 2011. Clinal variation in mescaline concentration among Texas populations of *Lophophora williamsii* (Cactaceae). *Journal of the Botanical Research Institute of Texas* 5(2): 677–683.

Terry M. 2011. Regeneration of *Lophophora williamsii* (Cactaceae) following mummification of its crown by natural freezing events, and some observations on multiple stem formation. *Phytologia* 93(3): 330–340.

Terry M and Scoppa S. 2010. *Quercus hinckleyi* × *Q. vaseyana*, a putative hybrid from Presidio County, Texas. *Phytologia* 92: 400–406.

Ogunbodede O, McCombs D, Trout K, Daley P, Terry M. 2010. New mescaline concentrations from 14 taxa/cultivars of *Echinopsis* spp. (Cactaceae) ("San Pedro") and their relevance to shamanic practice. *Journal of Ethnopharmacology* 131: 356–362.

Martínez-Ávalos JG, Mora-Olivo A, Terry M. 2009. Especie nueva de *Echeveria* (Crassulaceae) de Tamaulipas, México. *Revista Mexicana de Biodiversidad* 80: 309–314.

Fenstermacher J, Powell AM, Sirotnak J, Terry M. 2008. Annotated vascular flora of the Dead Horse Mountains, Big Bend National Park, Texas, with notes on local vegetation communities and regional floristic relationships. *Journal of the Botanical Research Institute of Texas* 2: 685–730.

Terry M, Price D, Poole J. 2007 [actually published April 2008]. A tale of two cacti – the complex relationship between peyote (*Lophophora williamsii*) and endangered star cactus (*Astrophytum asterias*). In: Barlow-Irick P, Anderson J, McDonald C, tech. eds. 2007. Southwestern rare and endangered plants: Proceedings of the fourth conference; March 22–26, 2004; Las Cruces, New Mexico. Proceedings. RMRS-P-48CD. Fort

Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 135 pp. [The proceedings are published online at http://www.fs.fed.us/rm/pubs/rmrs_p048.html.]

Terry M and Mauseth JD. 2006. Root-shoot anatomy and post-harvest vegetative clonal development in *Lophophora williamsii* (Cactaceae: Cactaceae): Implications for conservation. *Sida, Contributions to Botany* 22: 565–592.

Terry M, Steelman KL, Guilderson T, Dering P, Rowe MW. 2006. Lower Pecos and Coahuila peyote: new radiocarbon dates. *Journal of Archaeological Science* 33: 1017–1021.

Terry M, Pepper AE, Manhart JR. 2006. Development and characterization of microsatellite loci in endangered *Astrophytum asterias* (Cactaceae). *Molecular Ecology Notes* 6, 865–866.

Terry M, Lanenga M, McNaughton JL, Stark LE. 1999. Safety of 25-hydroxyvitamin D₃ as a source of vitamin D₃ in layer poultry feed. *Veterinary and Human Toxicology* 41: 312-316.

Opekun AR, El-Zaimaity HMT, Osata MS, Gilger MA, Malaty HM, Terry M, Headon DR, Graham DY. 1999. Novel therapies for Helicobacter pylori infection. *Alimentary Pharmacology and Therapeutics* 13: 35-41.

Terry M and Thomas JW. 1992. Professional labeling and animal drugs. *Journal of the Association of Food and Drug Officials* 56: 32-40.

Everett DJ, Perry CJ, Scott KA, Martin BW, Terry MK. 1987. Estrogenic potencies of resorcylic acid lactones and 17 β -estradiol in female rats. *Journal of Toxicology and Environmental Health* 20: 435-443.

Terry MK, Williams H, Kim HL, Post L, Bailey EM. 1983. Ovine urinary metabolites of hymenoxon, a toxic sesquiterpene lactone isolated from *Hymenoxys odorata* DC. *Journal of Agricultural and Food Chemistry* 31: 1208-1210.

Migdalof BH, Dugger HA, Heider JG, Coombs RA, Terry MK. 1983. Biotransformation of zeranol: Disposition and metabolism in the female rat, rabbit, dog, monkey and man. *Xenobiotica* 13: 209-221.

Corrier DE, Kuttler KL, Terry MK. 1983. Observations on anaplasmosis following field exposure to heavy and light infestations with *Boophilus microplus*. *Veterinary Parasitology* 13: 187-190.

Baldwin RS, Williams RD, Terry MK. 1983. Zeranol: A review of the metabolism, toxicology and analytical methods for detection of tissue residues. *Regulatory Toxicology and Pharmacology* 3: 9-25.

Terry MK, Kim HL, Corrier DE, Bailey EM. 1981. The acute oral toxicity of hymenoxon in sheep. *Research Communications in Chemical Pathology and Pharmacology* 31: 181-184.

Martin BW, Terry MK, Bridges CH, Bailey EM. 1981. Toxicity of *Cassia occidentalis* in the horse. *Veterinary and Human Toxicology* 23: 416-417.

Selected Scholarly Presentations

Terry M and Trout K. El consumo y la falta de producción: Un machete de doble filo en la conservación del peyote. Presented by M. Terry at the II Congreso Internacional de Medicina Tradicional y Salud Pública: Plantas Sagradas, Cultura y Derechos Humanos. Toluca, Mexico, 2014.

Terry M, Trout K, Williams B. Authorized consumption without authorized cultivation: effects of the absence of regulatory structure in the conservation of *Lophophora williamsii*. Presented by M. Terry at the 33rd Congress of the International Organisation for the Study of Succulent Plants (IOS), Phoenix, AZ, 2014.

Terry M, Trout K, Williams B, Herrera T. Cultivation of peyote by native Americans: Past, present and future. Society for Economic Botany annual meeting, Frostburg, MD, 2012.

Terry M, Trout K, Williams B, Herrera T. Monitoring the Medicine in Habitat: Post-Harvest Regrowth and Mortality in a South Texas Population of Peyote. Presented by M. Terry and T. Herrera at the EPA-sponsored National Tribal Science Forum, Traverse City, MI, 2010. Summary and PowerPoint presentation are available online at <http://www.epa.gov/osp/tribes/natforum10.htm>.

Terry M. Conservation perspective from the U.S. Case studies: conservation challenges in the Borderlands. Presented at Spiny Perspectives Congress on Cactus Conservation, Prague, Czech Republic, 2009.

Terry M, Crockett E, Steelman K, Dering P. Psychoactive cacti in North American archaeology. Presented by M. Terry at Society for American Archaeology 73rd Annual Meeting, Vancouver, BC, 2008. Abstract published in SAA meeting proceedings.

Terry M. Conservation Genetics of U.S. Populations of *Astrophytum asterias* (star cactus). Presented at Texas Plant Conservation Conference, Lady Bird Johnson Wildflower Center, University of Texas at Austin, 2007.

Terry M. Capturing the chemical constituents of cacti. American Chemical Society regional meeting, Sul Ross State University, 2004.

Herbarium work: I serve as Curator of the A. Michael Powell Herbarium, which houses the third largest collection of plant specimens in Texas, after U.T. Austin and the Botanical Research Institute of Texas in Ft. Worth.

Veterinary License: Texas State Board of Veterinary Medical Examiners. I maintain my license and annually obtain the required hours of Continuing Education.

Board Certification: Diplomate, American Board of Veterinary Toxicology (DABVT).

Professional editorial work: I served (2010–2012) as Editor of *Haseltonia*, the peer-reviewed scientific journal of the Cactus and Succulent Society of America. I have also served (2008 to present) as Associate Editor for Economic Botany, of the peer-reviewed botanical journal *Phytologia*.

Cactus Conservation Institute: I serve as President and Chairman of the Board of this 501(c)3 nonprofit organization. For details of mission and ongoing cactus research, see www.cactusconservation.org.