

CURRICULUM VITAE

TERRY, MARTIN KILMAN
Department of Biology
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Position: Assistant 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)

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| 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. In press (scheduled to appear in 1 Dec 2011 issue). 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.

Manuscripts currently in review

Terry M, Trout K, Williams B, Hernández T, Fowler N. Accepted pending minor revisions (scheduled to appear in Nov/Dec 2011 issue). Limitations to natural production of *Lophophora williamsii*. I. Regrowth and survivorship two years post harvest in a South Texas population. *Journal of the Botanical Research Institute of Texas* 5: xxx-xxx.

Terry M, Pepper AE, Strong AW, Tarin DM, Price DM, Manhart JR. Conservation Genetics of *Astrophytum asterias* (Cactaceae) in a fragmented habitat in South Texas. *Southwestern Naturalist*, in review.

Hulsey D, Kalam MA, Daley P, Fowler N, Terry M. Clinal mescaline concentrations in *Lophophora williamsii*: Tamaulipan Thornscrub and Chihuahuan Desert populations. *Journal of the Botanical Research Institute of Texas*, in review.

Book

Leathes M and Terry M. 1989. *Het Hormonen Schandaal [The Hormone Scandal]*. Roularta, Brussels, 175 pp. [This nonfiction book, which documents various aspects of a European conflict between science and politics that eventually erupted into a global trade war, was written for a lay audience and was published only in Flemish. The manuscript in the original English is available for perusal on request.]

Selected Scholarly Presentations

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 is published in the 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.

“Shamans and Other Toxicologists: Current Approaches to the Discovery of New Pharmaceuticals in Traditional Herbal Medicines.” Fifth International Symposium on Poisonous Plants, San Angelo, 1997.

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 am currently serving as Editor of *Haseltonia*, the peer-reviewed technical journal of the Cactus and Succulent Society of America. I also serve as Associate Editor for Economic Botany for the 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.