

RESUME

Name: Lane D. Foil

Education:

Auburn University, B.S. Zoology, 1971

University of Mississippi Medical Center, M.S. Preventive Medicine/Minor in Medical Microbiology, Hugh L. Keegan, Major Professor, March 1, 1975

Mississippi State University, Ph.D., Medical Entomology/Minor in Biochemistry, B.R. Norment, Major Professor, May, 1978

Recent Professional Experience:

July, 1989-Present. Professor, LSU, Veterinary Entomology. Teaching and Research

July, 1984-July, 1989. Associate Professor, LSU, Veterinary Entomology. Teaching and Research

November, 1979-June, 1984. Assistant Professor, LSU, Veterinary Entomology. Teaching and Research

June, 1978-November, 1979. Research Associate, Mississippi State University. Research in medical entomology and toxicology.

Publications:

Book Chapters:

Norment, B.R. and L.D. Foil. 1980. Histopathology and physiological action of venom from the brown recluse spider, Loxosceles reclusa. IN Natural Toxins, Ed. Eaker and Wadstrom. Pergamon Press, N.Y. pp. 69-76.

Foil, L.D. and C.S. Foil. 1986. Parasitic Skin Diseases. Veterinary Clinics of North America-Equine Practice. (VI. 2) Ed. R. Herd. Saunders Pub. Co. pp. 425-459.

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- Foil, L.D. and C.S. Foil. 2003. Control of Ectoparasites. In *Current Therapy in Equine Medicine*. Ed. N.E. Robinson. W.B. Saunders, Co., Philadelphia. Pp. 191-195.
- Issel, C.J. and L.D. Foil. 2015. Equine infectious anaemia and mechanical transmission: man and the wee beasties. *Rev. Sci.Tech. Off. Int. Epiz.* 34: 513-523.

Refereed Publications:

- Foil, L.D. and T. Orihel. 1975. *Dirofilaria immitis* (Leidy, 1856) in the beaver, *Castor canadensis*. J. Parasitol. 61: 433.
- Foil, L.D., J.L. Frazier, and B.R. Norment. 1979. Partial characterization of lethal and neuroactive components of the brown recluse spider, (*Loxosceles reclusa*) venom. Toxicon. 17: 347-354.
- Foil, L.D., L.B. Coons, and B.R. Norment. 1979. Ultrastructure of the venom gland of the brown recluse spider, *Loxosceles reclusa* Gertsch and Mulaik (Araneae:Loxoscelidae). Int. J. Insect Morphol. & Embryol. 8: 325-334.
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Foil, L. D., B. A. Elkins, R. M. Knaus, W. V. Adams, S. D. Hagius and C. J. Issel. 1992. The mechanical transmission of equine infectious anaemia. Proc. Sixth Int. Conference on Equine Infectious Diseases. Cambridge, England. p. 312.

Foil, C. S., L. D. Foil, R. E. Corstvet, C. Kilmzcak and F. Enright. 1992. Studies on *Culicoides* hypersensitivity 'sweet itch' in Louisiana, U.S. horses. Proc. Sixth Int. Conf. on Equine Infectious Diseases. Cambridge, England. p. 312.

Foil, L. D. and C. J. Issel. 1992. The mechanical transmission of pathogenic agents by tabanids. Proc. Ninth Int. Congress of Entomology. Beijing, China. p. 492.

- Leprince, D. J. and L. D. Foil. 1992. Effects of pyrethroid treatments of cattle on horse flies (Diptera: Tabanidae) populations. Proc. Ninth Int. Congress of Entomology. Beijing, China. p. 517.
- Foil, L. D. and C. J. Issel. 1992. The mechanical transmission of pathogenic agents by Diptera. First International Seminar on Non-Tsetse Transmitted Animal Trypanosomoses. Annecy, France. p. 122.
- Foil, L.D. 1993. Transmission of agents of human diseases by tabanids. Proc. First Inter, Cong. Vector Ecol. San Diego, CA. p 38.
- DeRouen, S.M., L.D. Foil, J.W. Knox, and J.M. Turpin. 1996. The influence of horn fly control on weight gains of yearling beef cattle grazing bermudgrass. Beef Research Report. 55-59.
- Hawkins, J.A., L.D. Foil, and G.R. Strother. 1996. Season-long horn fly control using Ivomec pour-on for cattle and pyrethroid ear tags. Proceedings of the Amer. Assoc. Vet. Parasitologists. Louisville, KY. p.59.
- Byford, R.L., L.D. Foil. 1998. Management strategies for insecticide resistance in Horn fly populations. Second International Conference on Novel Approaches to the Control of Helminth Parasites in Livestock. Baton Rouge, LA. p.29.
- Foil, L.D., A.T.M. Barros. 2000. The Effects of Management Strategies on Resistance in the Horn Fly, *Haematobia irritans*. International Congress of Entomology. Brazil Book I-XXI.
- Bouyer D.H., Stenos J., Crocquet-Valdes P., Foil L.D., Walker D.H.: Evaluation of a recombinant antigen for diagnosis of *Rickettsia felis* infection. American Society of Tropical Medicine and Hygiene, 48th Annual Meeting, Washington D.C> November 28-December 2,1999.
- Foil, L., J. Finkelstein, and K. O'Reilly. Transmission of *Bartonella henslae* by the cat flea, *Ctenocephalides felis*. The 6th International Symposium on Ectoparasites of Pets, Westport, Co. Mayo, Ireland. May 12-15, 2001.
- Foil, L.D., and S. DeRouen. Studies on Horn Fly Control with Insecticide Ear Tags and

Resistance Management. Field Day Summary 2002: Hill Farm Research Station.
Louisiana State University.

Foil, L.D. Strategies for Managing Horn Fly Resistance. Proc. Int. Congress of Dipterology.
Brisbane, Australia, Oct. 2002. p. 70.

Foil, L., and J. Hogsette. Treated targets for stable fly control. Proc. XXII International Congress
of Entomology. Brisbane, Australia. August 2004 p. 173.

Foil, L.D. Control of mechanical transmission of agents of livestock diseases. Proc. First
International Symposium on Hemoparasites and their Vectors. Caracas, Venezuela.
October 2004 p 46.

Extension:

Foil, L. D. 1986. Don't Bug My Horse, Horse Flies. In "Horsin' Around". La. Coop. Ext. Ser.
5(3):2-4.

Foil, L. D. 1986. Don't Bug My Horse, Muscoid Flies. In "Horsin' Around". La. Coop. Ext. Ser.
5(4):1-4.

Foil, L. D. 1986. Don't Bug My Horse, Mosquitoes. In "Horsin' Around". La. Coop. Ext. Ser.
5(5):1-2.

Foil, L. D. 1986. Don't Bug My Horse, Winter Pests. In "Horsin' Around". La Coop. Ext. Ser.
5(6):2-5.

Foil, L. D. 1988. Don't Bug My Horse, Biting Gnats. In "Horsin' Around". La. Coop. Ext. Ser.
7(2):1-4.

Foil, L. D. 1988. Don't Bug My Horse, Insecticides. In "Horsin' Around". La. Coop. Ext. Ser.
7(3):1-4.

Baldwin, J.L., L.D. Foil, and J.A. Hogsette. 1996. Important Fly Pests of Louisiana Beef Cattle.
La. Coop. Ext. Ser. Pub. 2617. pp. 1-19.

Baldwin, J.L., and L.D. Foil. 2002. Control of External Parasites of Beef Cattle. LA Coop. Ext. Ser. Pub. 1418. Pp 1-8.

Baldwin, J. and L. Foil. Control external parasites of beef cattle. 2007. LCES Pub. 1418. (Online only) Rev. 3/07.

Artistic Contribution:

Issel, C. J. and L. D. Foil. 1983. Equine Infectious Anemia: The infection and the disease. 20 min. video tape designed to educate horse-owners and veterinarians about EIA virus. Shown at several scientific meeting including: Animal Disease Research Workers in the Southern States, South Central Branch American Society for Microbiology, and Louisiana Mosquito Control Association, and appears yearly at the American Veterinary Medical Association Meetings.

Other:

Leprince, D. J., G. E. Church, and L. D. Foil. 1988. Changes in parity rate of Tabanus fuscicostatus populations associated with controlling available hosts. Proc. 31st Livestock Workshop. 1-4.

Foil, L.D. Tabanidae, Animal Health and Production Compendium 2002 Ed. CABI Publishing.

Participation At Professional Meetings:

Invited Lectures:

Brown recluse spider research. Mississippi Insect Control Conference, November 16, 1978.

Rocky Mountain spotted fever, historical and current public health importance. Gulf Coast Research Laboratory, Ocean Springs, MS, December 5, 1978.

Envenomating arthropods of Louisiana. Louisiana Pest Control Association Annual Management Conference. January, 1982.

Arthropod Vectors of Equine Infectious Anemia Virus. International Symposium on Immunity to EIA. Harbin, China, June, 1983.

Tabanid biology and behavior: relationship to control and disease transmission. Louisiana Mosquito Control Association. October, 1983.

Epidemiology of Equine Infectious Anemia Virus Transmission in the United States. Tubingen Veterinary Research Institute, Tubingen, Germany. June, 1983.

The Mechanical Transmission of Pathogenic Agents by Arthropods. American Association Vet. Par. July, 1984.

Pathogenesis of Equine Ventral Midline Dermatitis and its Association with Onchocerca cervicalis and Haematobia irritans. World Assoc. Adv. Vet. Parasitol. Rio De Janeiro, Brazil. August, 1985.

Mechanical Transmission of Anaplasmosis, MSDAGVET Sponsored Workshop. San Marcos Veterinary School, Lima, Peru. August 1985.

Congress of the U.S. Office of Technology Assessment Workshop. "Can the AIDS Virus be Transmitted by Insects?" Washington, D.C. July, 1987.

Quantifying the Role of Tabanids in Equine Infectious Anemia Virus Transmission. 5th Inter. Conf. on Equine Infectious Diseases. Lexington, Kentucky. October, 1987.

Culicoides as Inducers and Vectors of Equine Diseases. Entomol. Soc. Amer. Boston, MA. November, 1987.

Do Mosquitos Spread AIDS? Mosquito and Vector Control Workshop. Jackson, MS. Mar. 1990.

Transmission of Equine Retroviruses (2-1 hr. lecturers) EMBRAPA, Corumba and Campo Grande, Brasil. December, 1990.

Flea trials at Louisiana State University. Louisiana Pest Control Management Conference. Baton Rouge, Louisiana. January, 1991.

Transmission of Animal Retroviruses. World Veterinary Congress. Rio De Janeiro, Brazil. August, 1991.

The Mechanical Transmission of Pathogenic Agents by Tabanids. 19th International Congress of Entomology. Beijing, China. June, 1992.

The Mechanical Transmission of Pathogenic Agents by Diptera. 1st International Seminar on Non-tsetse Transmitted Animal Trypanosomoses. Annecy, France. October, 1992.

Transmission of Agents of Human Disease by Tabanids. W.A.A.V.P. 14th International Conference. Cambridge UK. August 1993.

New Techniques for Control of Equine Ectoparasites. Society for Vector Ecology 1st International Congress of Vector Ecology. San Diego, CA. October, 1993.

Highlights of Veterinary Entomology. Entomology Society of America. Dallas, Texas, December 1994.

Host-seeking Behavior of Tabanids. Host-seeking Behavior Symposium. Biting Fly Workshop. New Orleans, La. May 1996.

Control of vectors of mechanically transmitted diseases. First New World Meeting on Trypanosomiasis. Georgetown, Guyana. November 1996.

Mechanical transmission of New World Trypanosomiasis. First New World Meeting on Trypanosomiasis. Georgetown, Guyana. November 1996.

Recent developments of traps and targets for stable flies and tabanids. The Annual Meeting of the Entomological Society of America. Ft. Lauderdale, FL. November 2002.

Control of mechanical transmission of agents of livestock diseases. First International Symposium on Hemoparasites and their Vectors. Caracas, Venezuela. October 2004.

Developments of treated targets for stable fly control. The Annual Meeting of the Entomological Society of America. Ft. Lauderdale, FL. November 2005.

Mechanical transmission or dissemination of infectious pathogens/parasites by arthropods", in Edman, J. (ed.), Vector-Borne Diseases: , The Biomedical & Life Sciences Collection, Henry Stewart Talks Ltd, London (online at

<http://hstalks.com/?t=BL1182618-Foil>). 2010.

Papers Presented: (These are all senior author; others not recorded)

American Association of Veterinary Parasitology (1988)
American Society of Parasitology (1986)
American Society of Tropical Medicine and Hygiene (1978)
Animal Disease Research Workers Conference (1982)
Entomological Society of America (1977, 1978, 1980, 1981, 1984, 1985)
International Chemoreception Workshop on Insects (1981, 1983)
International Congress Entomology (1984, 1988)
Louisiana Electron Mic. Society (1981)
Louisiana Entomological Society (1980, 1981, 1982, 1983, 1985, 1986)
Mississippi Academy of Science (1975)
Mississippi Entomological Society (1976)
NEC 26 Tabanid Workshop (1981, 1982, 1984)
SEB Southeastern Branch Entomological Society of America (1980, 1990)
World Congress of Veterinary Dermatology (1989)
International Conference on Equine Infectious Diseases (1987, 1991)
International Congress of Dipterology, 2002.

Producer Groups/Field Tours:

Rosepine Research Station 1990
Dean Lee Research Station 1990
Hill Farm Research Station 1990
Red River Research Station 1990
Iberia Cattleman Association 1990
Dean Lee Research Station 1993
Sixth Annual Farm Forum , New Roads 1996
Red River Research Station 1996
Hill Farm Research Station 1996
Hill Farm Research Station, 2002

Memberships in Professional Societies:

Entomological Society of America

Membership Committee, 1983-84

Awards Committee, 1987-1990 (Chairman, 1989-90)

International Society of Toxinology

American Mosquito Control Association

Louisiana Mosquito Control Association

Georgia Entomology Society

American Association of Veterinary Parasitology

AAAS

Society of Vector Ecology

Activities in Professional LSU Organization:

Department of Entomology Committees -

Present Seminar Committee, Faculty Rotates Among All Committees

Faculty Position Search Committees: Toxicology 1990, Department Head 1991, (Chair)
Physiology

College of Agriculture Committees -

Graduate Education

Systems Approach to Animal Agriculture

Faculty of Agricultural Biotechnology

Promotion and Tenure 1995-1997

Campus Committees -

Faculty Senate Committee Student Recruiting
Faculty of Parasitology
Graduate School Representative for Graduate Exams
Graduate Faculty - Full Member
Ag Policy Committee, 1985-1987
Faculty Senate, 1988-1991
LAES Strategic Planning Task Force
LAES Basic Animal Biology Research Advisory Committee

Awards, Lectureships, or Prizes

Phillips Foundation Fellowship, June, 1974 to March, 1975
Mississippi Entomological Society Outstanding Student Scholarship, 1976
Mississippi Entomological Society Merit Award for Outstanding Student Presentation, 1977
First Mississippi Corporation Award for Outstanding Research, 1993.
Ken Tipton Team Research Award for Outstanding Research, 2001.
ESA Recognition Award in Entomology, Southeastern Branch, 2004.
Doyle Chambers Award for Excellence in Research, 2006.
Pennington Endowed Chair, Bob Jones Wildlife Institute, 2012.

Grants and Contracts:

Miscellaneous International Travel Grants over \$1,000
USDA/South F. F. Res. C., Grant #7008-20360-001A. Perm. Traps for tab. 1982-1984. \$54,000.
USDA Southern Region IPM Program. Establishing Feasibility of Tabanid IPM Programs. 1986-1988. \$60,000.
LSU Vet. Med. Equine Res. Program. Research on Culicoides hypersensitivity. 1986-1988. \$8,000.
International Teaching and Res. Found. Agr. Sci. Visisting Scientist Support, 1987. \$1,500.
Grayson Foundation, Mechanical Transmission of Equine Diseases. 1988-1990. \$55,500.
College of Agriculture Competitive Grant. Bluetongue Research. 1988-1990. \$25,000.
USDA Southern Region IPM Program. Factors influencing tabanid incidence. 1989-1991. \$75,000.
USDA/ARS. Insect Transmission of Bovine Retroviruses. Sept. 1990-Oct. 1991. \$9,950.
NIH The Biology of *Bartonella henselae* Infection In The Cat Reservoir. K.L. O'Reilly, D.T.

Scholl, M.G. Groves, L.D. Foil, K.S. Harrington, J. Wendicamp. April 1996-March 1999.\$103,122.35 .

Cross Sectional Study for the Description of West Nile Virus in Louisiana; Roy, Foil, Kousoulas, Mitchell and Perrich. LA BORSF funded 2002-2004; \$154, 000.

Development of an Integrated Control Program for Stable Flies. SRIPM; Foil, Hogsette and Szalanski. Funded May 2003-September 2006. \$88,793.

Husseneder, C., Foil, D.L., Cooper, R.K., and Enright, F. M. 2005. Engineering termite gut bacteria to express protozoicidal lytic peptides to control Formosan subterranean termites. LSU AgCenter. \$40,000.

Development of Novel Techniques for Targeted Control of Phlebotomine Sand Flies. L.D. Foil. June 2005-June 2009. AFPMB. \$310,430.

A Novel Approach to Managing Invasive Termite Species using Genetically Engineered Bacteria. Husseneder, C., Foil, L.D., Cooper, R.K., and Enright, F. M. March 2006-March 2008. Strategic Environmental Research and Development Program (SERDP) funded. \$99,943.

Characterizing the Epidemiology of Bluetongue Virus Serotype One in South Louisiana. Foil (PI) USDA CSREES Critical issues in new and emerging animal diseases 10/05-9/08. \$80,000

Development of a multiplex PCR-based assay to detect target site resistance for pyrethroids and organophosphates in the horn fly. Foil, L.D, Guerrero. F., Temeyer, K.. July 1, 2006- July 30,2006. Louisiana EPSCoR Link. \$5,000.

Role of fleas in transmission of rickettsiae: ecology of flea-borne spotted fever. Macaluso, K.R., Foil, L.D. Aug. 2007- Aug. 2010. NIH direct cost \$364,000.

Control of the red imported fire ant using RNA interference and paratransgenesis. Husseneder, C., Colby, D., Foil, L. Collier, R., and Johnson, S. 2007. BAIT initiative, LSU AgCenter. \$40,000.

Characterization of polymorphic microsatellite loci for population genetic analyses in the hornfly, *Haematobia irritans*. Husseneder, C. and L. Foil. 2008-2009. LA Board of Regents. \$10,000.

Further Development of Novel Techniques for Targeted Control of Phlebotomine Sand Flies. L. Foil, T. Mascari, R. Stout, and E. Rowton. June 2008-June 2011. AFPMB. \$737,439.

Novel Methods for Increasing the Efficiency of Gene Knockdown for Control of Red Imported Fire Ants. Foil, L.D., D. Colby, C. Husseneder, and S. Johnson. 2009-2010. LSU AgCenter. \$34,000.

Designing ligand/lytic peptides to target surface receptors of the obligate gut protozoa of the Formosan subterranean termite. Husseneder, C., Sethi, A., Foil, L., and Richard, A. Biotechnology AgCenter Interdisciplinary Team (BAIT) initiative, LSU Agricultural Center. \$34,000.

Field Evaluation of Novel Methods for the Control of Phlebotomine Sand Flies in Egypt and Kenya. Foil, L.D. and T. Mascari. June 2009-June 2012. AFPMB. \$281,324.

Development of a termite bait with yeast expressing protozoacidal lytic peptides as the active ingredient. Husseneder, C., Sethi, A., Foil, L., and Enright, F. M. 1/1/2010-12/31/2011. Biotechnology AgCenter Interdisciplinary Team (BAIT) initiative, LSU Agricultural Center. \$40,000.

Developing new techniques to use in the integrated pest management of stable flies. Foil, L.D, S. Butler, G. Gentry, J. Hogsette, G. Scaglia. 2010-2013. USDA-RIPM. \$156,457.

A Survey of Tabanid and Ceratopogonid Populations along Coastal Louisiana to Establish Baseline Data for Measuring the Impact of the BP Oil Spill on Tidal Marsh Communities. Foil, L.D. and C. Husseneder. July 1, 2010-June 30, 2012. NSF RAPID. \$175,761.

Continued sampling of tabanid populations as indicators of acute and potentially chronic effects of oil spill stress on coastal marsh health. Foil, L.D. and C. Husseneder. July 2, 2011-November 30, 2011. Gulf of Mexico Research Initiative Research Board-RFP III Competition. \$80,898.

Development of IPM Strategies for Control of Phlebotomine Sand Flies. Foil, L.D. 2011-2016. SCA with USDA-ARS. \$115,000.

Evaluation of Immune Response of White-tailed Deer Following Vaccination With Anti-Cattle Tick Vaccine Candidate Antigens. Foil, L.D and F. Guerrero. March 2012-September 2015. USDA-ARS, SPA. \$27,000.

1 R56 AI104923-01
8/31/2014

Macaluso (PI)

9/9/2013-

NIH/NIAID

Arthropod host-dependent influence on rickettsial pathogenicity.

This study is designed to assess flea/rickettsiae relationship to identify determinant of rickettsial pathogenicity. \$ 250,000 direct.

Role: Co-Pi

LDWF Bone Marrow.

1R01AI22672-01

Macaluso (PI)

12/1/2015-1/30/2020

NIH/NIAID

Emerging flea-borne rickettsial diseases: vector competence and transmission biology

This study is designed to assess flea/rickettsiae relationships to identify microbial determinants of vector competence.. \$1.8 M Role: Collaborator

Tabanid populations and their food web as indicators of coastal marsh health. Foil, L.D. and C. Husseneder. Jan 1, 2016- December 30, 2019. Gulf of Mexico Research Initiative Research Board-RFP V Competition. \$1.87 M

Industry Grants and Contracts. Over \$1,000,000.

Patents:

U.S. Patent No. 6,635,740 Ligand/lytic peptide compositions and methods of use (2003) F.M. Enright, J.M. Jaynes, W. Hansel, K.L. Koonce, S.M. McCann, Y.H. Yu, L.D. Foil, P.A. Melrose, and P.H. Elzer.

U.S. Patent No. 7,566,777 Genes encoding hormone and lytic peptides (2009) F.M. Enright, J.M. Jaynes, W. Hansel, K.L. Koonce, S.M. McCann, W.H. Yu, P.A. Melrose, L.D. Foil, and P.H. Elzer.

Thesis/Dissertations Directed:

M. S. -

1987-1

1990-1

1991-3

2000-1

2001-1

2003-1

2005-1

2007-1

2008-1

In progress

Ph. D.

1996-1

1997-1

1999-1

2007-3

2011-1

In progress-1

Current positions held by M.S. students: USDA scientist, Laboratory animal veterinarian, High school biology teacher, U.S. military, contract research industry. Ph.D. students; Assistant Professor, EMBRAPA- research scientist, Technical Director in industry (2).

Major Areas of Interest:

Vector-borne diseases: 1) Sand fly biology and control 2) Mechanical transmission of agents of livestock diseases, 3) Vector host-seeking and blood feeding behavior as they relate to transmission of pathogenic agents of animals 4) *Rickettsia felis* and other flea-borne agents. 5) BTV/EHDV

Direct pests 1) Dispersal of blood feeding insects; in particular tabanids and stable flies, 2) Tabanid, horn fly and stable fly control measures. 3) Integrated management of hematophagous Diptera. 4) Resistance detection and management