

Biographical Sketch

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Donald S. Davis		POSITION TITLE Associate Professor, Veterinary Pathobiology, College of Veterinary Medicine, Texas A&M University	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Texas, Austin, TX	B.A.	1972	Biology
Texas A&M University, College Station, TX	M.Ag.	1974	Wildlife Science
Texas A&M University, College Station, TX	Ph.D.	1979	Veterinary Public Health

NOTE: The Biographical Sketch may not exceed four pages. Items A and B may not exceed two of the four-page limit.

A. Positions and Honors. List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.

PROFESSIONAL EXPERIENCE AND ACADEMIC APPOINTMENTS:

1975-1977	Texas A&M University, Veterinary Pathology, Technician I
1977-1979	Texas A&M University, Veterinary Public Health, Graduate Assistant
1979-1981	Texas A&M University, Veterinary Pathology, Lecturer/Post Doctoral Research Associate
1981-1982	Texas A&M University, Veterinary Pathology, Lecturer/Assistant Research Scientist
1982-1985	Texas A&I, Kingsville, Caesar Kleberg Wildlife Research Institute, Associate Research Scientist
1985-present	Texas A&M University, Veterinary Pathobiology, Associate Professor
1985-present	Texas A&M University, Wildlife and Fisheries Sciences, Associate Professor

AWARDS AND HONORS:

1970	Phi Eta Sigma,
1977	Phi Sigma
March 1980	Sigma Xi Society
May 1984	Gamma Sigma Delta
April 1988	Beecham Award for Research Excellence
Jun 1989	USDA Superior Service Award for Outstanding Research, by Sec. of Agric., Wash. D.C.
1989	Recipient, USDA's Superior Service Award for Outstanding Research
1994	ESCOP/ACOP Leadership Development Program

B. Selected (>180) peer-reviewed publications (in reverse chronological order). Do not include publications submitted or in preparation.

1. Harwell, G.M., **D.S. Davis**, and R.M. Robinson. 1977. Experimental Infection of Collared Peccaries (*Dicotyles tajacu angulatus*) with swine kidney worm (*Stephanurus dentatus*). *Journal of Wildlife Diseases*, 13:445-447.
2. **Davis, D.S.**, R.M. Robinson, and T.M. Craig, 1978. Naturally Occurring Hepatozoonosis in a Coyote. *Journal of Wildlife Diseases*, 14:244-246.
3. **Davis, D.S.**, W.J. Boer, and J.P. Mims, J.P. 1979. *Brucella abortus* in Coyotes. I. A Serologic and Bacteriologic Survey in Eastern Texas. *Journal of Wildlife Diseases*, 15:367-372.
4. **Davis, D.S.**, L.H. Russell, and L.G. Adams. 1980. An Experimental Infection of *Trypanosoma cruzi* in Striped Skunks (*Mephitis mephitis*). *Journal of Wildlife Diseases*, 16 (3):403-406.
5. **Davis, D.S.**, L.G. Adams, and F.C. Heck. 1984. Experimental Infection of Captive Axis Deer with *Brucella abortus*. *Journal of Wildlife Diseases*, 20:177-179.
6. Grogil, M., R. Requkh, **D.S. Davis**, and G.E. Green. 1984. Antibodies to *T. cruzi* in Coyotes in Texas. *Journal of Parasitology*, 70:189-191.
7. **Davis, D.S.**, H.C. Heck, J.D. Williams, T.R. Simpson, and L.G. Adams. 1988. Interspecific transmission of *Brucella abortus* from experimentally infected coyotes (*Canis latrans*) to parturient *Bos taurus* heifers. *Journal of Wildlife Diseases*, 24(3):533-537.
8. Waldrup, K. A., A. A. Kocan, T. Qureshi, **D. S. Davis**, D. Baggett and G. G. Wagner. 1989. Serological prevalence and isolation of *Babesia odocoilei* among white-tailed deer (*Odocoileus virginianus*) in Texas and Oklahoma. *Journal of Wildlife Diseases*, 25(2): 194-201.
9. Qureshi, T., T.M. Craig, D.L. Drawe, and **D.S. Davis**. 1989. Efficacy of Triclabendazole against the Deer Liver Fluke. *Journal of Wildlife Diseases*, 25(3): 378-383.
10. Qureshi T., **D.S. Davis**, D.L. Drawe. 1990. Use of Albendazole Treated Feed to Control *Facioloides magna* Infections in

- Captive White-tailed Deer. *Journal of Wildlife Diseases*, 26(2):231-235.
11. **Davis, D.S.**, J.W. Templeton, J.D. Williams, J.D. Kopec, and L.G. Adams. 1990. *Brucella abortus* in Captive Bison I. Serology, Bacteriology, Pathogenesis, and Interspecific Transmission to Susceptible *Bos taurus* heifers. *Journal of Wildlife Diseases*, 26(3) 360-371.
 12. Dorn, C.G., W.B. Foxworth, P.D. Butler, C.G. Olsen, B.A. Wolfe, **D.S. Davis**, T.R. Simpson, and D.C. Kraemer. 1990. Superovulation and embryo recovery in the American bison (*Bison bison*). *Theriogenology*, 33:271-272.
 13. Davis, D.S., Templeton, J.W., Ficht, T.A., Huber, J.D. Angus, D.H., and Adams, L.G. 1991. *Brucella abortus* in Bison. II Evaluation of Adult Strain 19 Vaccination. *Journal of Wildlife Diseases*, 27(2):258-264.
 14. Peterson, M.J., **D.S. Davis**, and W.B. Grant. 1991. Simulation of host-parasite interactions with a resource management framework: impact of brucellosis on bison population dynamics. *Ecological Modeling*, 54: 299-320.
 15. Peterson, M.J., **D.S. Davis**, and W.B. Grant. 1991. Bison Brucellosis: Simulation of Animal Health Management Strategies. *Journal of Wildlife Management*, 55(2):205-213.
 16. Williams, J.D., F.C. Heck, **D.S. Davis**, and L.G. Adams. 1991. Comparison of Results from Five Serologic Methods Used for Detecting *Brucella abortus* Antibody Activity in Coyote Sera. *Veterinary Immunology and Immunopathology*, 29:79-87.
 17. Peterson, M.J., **D.S. Davis**, and J. W. Templeton. 1993. An Enzyme-Linked Immunosorbent Assay for Detecting Anthrax Antibody in White-tailed Deer (*Odocoileus virginianus*): Evaluation of Anthrax Vaccination and Sera from Free-Ranging Deer. *Journal of Wildlife Diseases*, 29: 130-135.
 18. Moreno, J.F., W.B. Foxworth, G. Flores-Foxworth, M. Weshusin, **D.S. Davis**, and D.C. Kraemer. 1994. Production of Domestic Bovine (*Bos taurus*) x American Bison (*Bison*) F1 Embryos by IVM-IVF. *Theriogenology*, 41:261-267.
 19. Qureshi, T., D. L. Drawe, **D. S. Davis**, and T. M. Craig. 1994. Use of bait containing triclabendazole to treat *Fascioloides magna* infections in free ranging white-tailed deer. *Journal of Wildlife Diseases*, 30(3): 346-350.
 20. Qureshi, T., G. G. Wagner, D. L. Drawe, **D. S. Davis**, and T. M. Craig. 1995. Enzyme-linked immunoelectrotransfer blot analysis of excretory-secretory proteins of *Fascioloides magna* and *Fasciola hepatica*. *Veterinary Parasitology*, 58: 357-363.
 21. **Davis, D.S.**, J.W. Templeton, T.A. Ficht, J.D. Williams, J.D. Kopec, and L.G. Adams. 1995. Response to the Critique of Brucellosis in Captive Bison. *Journal of Wildlife Diseases*, 31(1):111-114.
 22. Bevins, J.S., J.E. Blake, L.G. Adams, J.W. Templeton, J.K. Morton, and **D.S. Davis**. 1996. The Pathogenicity of *Brucella suis* Biovar 4 for Bison. *Journal of Wildlife Diseases*, 32(1):581-585.
 23. Robison, C.D., **D.S. Davis**, J.W. Templeton, M. Westhusin, M.J. Gilsdorf, and L.G. Adams. 1998. Conservation of germ plasm from bison infected with *Brucella abortus*. *Journal of Wildlife Diseases*, 34(3): 582-589.
 24. Elzer, P.H., M.D. Edmonds, S.D. Hagius, J.V. Walker, M.J. Gilsdorf, and **D.S. Davis**. 1998. Safety of *Brucella abortus* strain RB51 in bison. *Journal of Wildlife Diseases*, 34(4):825- 829.
 25. Qureshi, T., J. Stittmatter, K. Turner, and **D.S. Davis**. 1999. Experimental infection of white-tailed deer with rangiferine brucellosis. *Journal of Wildlife Diseases*, No.2 pp 388-391.
 26. Scharninghausen, J.J., H. Meyer, M. Pfeffer, **D.S. Davis**, R.L. Honeycutt. 1999. Genetic Evidence of Dobrava Virus in *Apodemus agarius* in Hungary. *Emerging Infectious Diseases*, 5(3):468-470.
 27. Pillai, S.D., K.W. Widmer, L.J. Ivey, K.C. Coker, E. Newman, S. Lingsweiler, D. Baca, M. Kelley, **D.S. Davis**, N.J. Silvy, and L.G. Adams. 2000. Failure to Identify Non-Bovine Reservoirs of *Mycobacterium bovis* in a Region with a History of Infected Dairy-Cattle Herds. *Preventive Veterinary Medicine*, 43:53-62.
 28. Gall, D., K. Nielsen, L. Forbes, **D. Davis**, P. Elzer, S. Olsen, S. Balsevicius, L. Kelly, P. Smith, S. Tan, and D. Joly. 2000. Validation of the Fluorescence Polarization Assay and Comparison to other Serologic Assays for the Detection of Serum Antibodies to *Brucella abortus*. in Bison. *Journal of Wildlife Diseases*, 36(3): 469-479.
 29. Mikota, S.K., **D.S. Davis**, et al., 2001. Epidemiology and Diagnosis of *Mycobacterium tuberculosis* in Captive Asian Elephants (*Elephas maximus*) *Journal of Zoo and Wildlife Medicine*, 32(1):1-16
 30. Edwards, J.F., **D.S. Davis**, T.J. Roffe, F. Ramiro-Ibanez, and P.H. Elzer. 2001. Fusobacteriosis in Captive Wild-caught Pronghorns (*Antilocarpa americana*). *Veterinary Pathology*, 38:549-552.
 31. Elzer, P.H., S.D. Hagius, **D.S. Davis**, V.G. DelVecchio, and F.F. Enright. 2002. Characterization of the Caprine Model for Ruminant Brucellosis. *Veterinary Microbiology*, 90:425-431.
 32. **Davis, D.S.**, and P.H. Elzer. 2002. *Brucella* Vaccines in Wildlife. *Veterinary Microbiology*, 90:533-544.
 33. Roffe, T.J., L.C. Jones, K. Coffin, S. J. Sweeny, M. Drew, P.H. Elzer, and **D.S. Davis**. 2003. Effectiveness of *Brucella abortus* Strain 19 Single Vaccination in Elk (*Cervus elaphus*). *Journal of Wildlife Diseases*.
 34. Shawn L. Locke1, Matthew W. Cook, Louis A. Harveson, **Donald S. Davis**, Roel R. Lopez, Nova J. Silvy, and Mark A. Fraker. 2006. Effectiveness of Spayvac® on an Urban White-Tailed Deed Population. *Journal of Wildlife Diseases*.
 35. Kahl, M., P.H. Elzer, S.D. Hagius, **D.S. Davis**, A. Den-Hartigh, R. Tsolis, and T.A. Ficht. 2006. Evaluation of Novel *Brucella abortus* and *Brucella melitensis* Deletion Mutants as Potential Vaccine Candidates in the Mouse and Goat Models of Brucellosis. *Science Direct Vaccine*, 24:5169-5177.
 36. Parker D, Lopez R, Silvy N, **Davis D**, Watts, and Frank P. 2006. Evaluation of the Efficacy of Florida Key Deer Translocations. Submitted to the *Journal of Wildlife Management*.
 37. Hernandez, S., S.L. Locke, M.W. Cook, L.A. Harveson, **D.S. Davis**, R.R. Lopez, N.J. Silvy, and M.A. Fraker. 2006. From the Field: Effects of SpayVac® on urban female white-tailed deer movements. *Wildlife Society Bulletin*. (In press)

38. Hernandez S, Locke S, Cook L, Harveson L, **Davis D**, Lopez R, Silvy N, and Fraker M. 2007. Effectiveness of SpayVac on an Urban White-tailed Population. *Journal of Wildlife Diseases*. (In Press)
39. Arenas-Gamboa A, Ficht T, **Davis D**, Elzer P, Wong-Gonzalez A, and Rice-Ficht A. 2007. Enhanced Immune response of red deer (*Cervus elaphus*) to Live RB51 Vaccine Strain Using Microspheres. Accepted for Publication with revisions. *Journal of Wildlife Diseases*.
40. Seabury CM, Gill CA, Templeton JW, Dyar JB, Derr JN, Adelson DL, Owens KE, **Davis DS**, Kraemer DC, Womack JE. 2007. Detection of Single Nucleotide Polymorphisms and Evidence for Linkage Disequilibrium Within the Rocky Mountain Elk (*Cervus elaphus nelsoni*) PRNP Putative Promoter. Submitted to *Journal of Heredity*.

C. Research Support. List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and responsibilities of principal investigator identified above.

RESEARCH/SCHOLARLY ACTIVITIES:

- *TAES – Microencapsulation of *Brucella* Vaccines Suitable for Use in Free-ranging Wildlife. USGA, BRD, USDI. 3 yrs., 2002-2006. Co- Investigator
- * LSU – Effectiveness of Modified *Brucella* Vaccines Expressing Other Antigens Against Tuberculosis. USDA/APHIS/VS, 2002-2004, Co Principal Investigator
- * TAES – Effectiveness of Orally Delivered Titanium Dioxide as a Fecal Biomarker in Red Deer. USGS, 1 yr., Apr 2003-Feb 2004, Principal Investigator
- * U.S. Department of Interior, U.S. Geological Service, National Park Service. Oral Vaccine Development for *Cervus elaphus*. (10/1/04-9/30/06). Co- Principal Investigator.
- * Characterization of PRNP Regulatory Region Polymorphisms in *Cervus elaphus nelsoni* Using a Comparative Genomics Approach. Cervid Research and Recovery Institute 2006 (Extramural); \$7500.00. TAMU, College of Veterinary Medicine. Co- Principal Investigator.
- USFWS - Reintroduction as a Conservation Strategy for the Lower Keys Marsh Rabbit. US Fish and Wildlife Service 1/01/2006 to 1/31/2007. Co PI's R. Lopez, N. Silvy, D. Davis.
- USFWS Population Ecology of the Key Deer on the Outer Keys. US Fish and Wildlife Services. 1/01/2006 to 12/31/2007. Co PI's R. Lopez, N. Silvy, D. Davis.
- TAES/VTPB - Creation and Utilization of Large Scale Genomic Resources to Study Disease Resistance and Traits of Interest in White-tailed Deer (*Odocoileus virginianus*). Approved and Funded. 3/20/07. 1 year. PI C. Seabury, CoPI's S. Cooper, J. Womack, and D. Davis.
- Texas Parks and Wildlife Department - Serological Monitoring and Genetic Diversity Analysis for White-tailed Deer. 10/2007 to 09/2008. Approved and Funded May 2007. Contract Pending. PI C. Seabury, CoPI's S. Cooper, J. Womack, and D. Davis.
- * Peer Reviewed Grants and Contracts

RESEARCH PROPOSALS SUBMITTED:

- Dose Characterization and Efficacy Study of Fenbendazole in White-tailed Deer. Intervet. 1/10/07 to 5/01/07. PI D. Davis. Project approved, May 2007. Contract pending.
- Monitoring of Lower keys Marsh Rabbit. 1/31/07 to 1/01/2012. Submitted to US Navy, Key West. Project approved and funding pending. Co PI's R. Lopez, N. Silvy, D. Davis.
- An Evaluation of a Contraceptive Program for Key Deer on No Name Key. 05/2007 to 04/2009. Submitted to Key Deer Refuge USFWS. Submitted at USFWS request. Co PI R. Lopez, N. Silvy, D. Davis. Pending.
- Safety and Efficacy of Novel *Brucella* Vaccines and an Oral Microencapsulation Delivery System Suitable for Use in Feral Swine. USDA/APHIS/Wildlife Services and Veterinary Services. Spring 2008. Pending to Fall 2008. PI D. Davis. Pending.