

**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: Lezlee G. Coglan		POSITION TITLE: Associate Professor, Veterinary Pathobiology, College of Veterinary Medicine, Texas A&M University	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Texas A&M University, College Station, TX	B.S.	1978	Biomedical Science
Texas A&M University, College Station, TX	B.S.	1982	Veterinary Science
Texas A&M University, College Station, TX	D.V.M.	1984	Veterinary Medicine
Texas A&M University, College Station, TX	M.S.	1984	Lab Animal Medicine

**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.**RESEARCH AND PROFESSIONAL EXPERIENCE**

09/80 - 05/84 Graduate Studies in Laboratory Animal Medicine: Departments of Medical Microbiology and Immunology, Veterinary Public Health, and Laboratory Animal Research and Resources (L.A.R.R.), Texas A&M University, College Station, TX

06/84 - 12/84 Graduate Assistantship, Teaching: Departments of Veterinary Public Health and L.A.R.R., Texas A&M University, College Station, TX

06/84 - 01/85 Contract Veterinarian: El Cerrito Animal Clinic, Bryan, TX

01/85 - 08/89 Assistant Veterinarian and Instructor in Veterinary Medicine and Surgery: UT MD Anderson Cancer Center, Science Park-Veterinary Resources, Bastrop, TX

09/85 - 08/86 Acting Chief, Section of Laboratory Animal Medicine: UT M.D. Anderson Cancer Center, Science Park-Veterinary Sciences, Bastrop, TX

09/89 - 08/92 Associate Veterinarian and Assistant Professor of Veterinary Medicine and Surgery: UT MD Anderson Cancer Center, Science Park-Veterinary Resources, Bastrop, TX

11/85 - 2004 Adjunct Professor: Department of Veterinary Public Health, College of Veterinary Medicine, Texas A&M University, College Station, TX

09/86 - 02/01 Chief, Section of Laboratory Animal Medicine: UT MD Anderson Cancer Center, Science Park-Veterinary Sciences, Bastrop, TX

09/92 - 08/00 Associate Veterinarian, Associate Professor of Comparative Medicine, and Deputy Department Chairperson: UT MD Anderson Cancer Center, Science Park-Veterinary Sciences, Bastrop, TX

08/00 - 02/01 Director of Veterinary Services for the Department of Carcinogenesis, UT MD Anderson Cancer Center, Science Park-Veterinary Sciences, Bastrop, TX

03/01 - Present Director of Animal Resources, and Associate Professor of Carcinogenesis, UT MD Anderson Cancer Center, Science Park - Department of Carcinogenesis, Smithville, Texas

02/98 - Present Associate Member, Faculty of the Graduate School of Biomedical Sciences: UT MD Anderson Cancer Center

2005 - Present Adjunct Professor: Department of Pathobiology, College of Veterinary Medicine, Texas A&M University, College Station, TX

**HONORS AND AWARDS****Specialty Boards:**

07/91 American College of Laboratory Animal Medicine

**Consultantships:**

09/95 - 08/98 Ad Hoc Consultant/Specialist (Site Visitor): Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC) International, Rockville, MD

**B. Selected (>180) peer-reviewed publications (in reverse chronological order).** Do not include publications submitted or in preparation.1. (né:) Graham, L. Chapter 26 Birds. *In:* W.B. Sapaniski and J.E. Harkness (eds.), Manual for Assistant Laboratory Animal Technicians, pp. 326-337. Cordova, TN: AALAS, 1984.

Principal Investigator/Program Director (Last, First, Middle):

2. Carlomagno, M.A., Coghlan, L.G. and McMurray, D.N. Chronic zinc deficiency and listeriosis in rats: Acquired cellular resistance and response to vaccination. *Med Microbiol Immunol* 175:271-280, 1986.
3. Coghlan, L.G., Carlomagno, M.A. and McMurray, D.N. Effect of protein and zinc deficiencies on vaccine efficacy in guinea pigs following pulmonary infection with *Listeria*. *Med Microbiol Immunol* 177:255-263, 1988.
4. Donahue, W.A., VanGundy, D.N., Satterfield, W.C. and Coghlan, L.G. Solving a tough problem. *Pest Control* 57:46-50, 1989.
5. Coghlan, L.G. Chapter 8 Birds. *In: D.M. Stark and M.E. Ostrow (eds.), Training Manual Vol 2, Laboratory Animal Technician*, pp. 59-65. Cordova, TN: AALAS, 1990.
6. Coghlan, L.G. and Hanausek, M. Subcutaneous immunization of rabbits with nitrocellulose paper strips impregnated with microgram quantities of protein. *J Immunol Methods* 129:135-138, 1990.
7. Richie, E.R., McEntire, B.B., Coghlan, L. and Poenie, M. Murine T-lymphomas corresponding to the immature CD4<sup>+</sup> thymocyte subset. *Dev Immunol* 1:255-263, 1991.
8. Wargovich, M.J., Satterfield, W., Price, R.E., Stephens, L.C. and Coghlan, L. Hepatic pathology of the colon carcinogen, azoxymethane, in Hanford-Moore miniature pigs. *J Comp Pathol* 105:271-278, 1991.
9. Coghlan, L.G., Lee, D.R., Psencik, B. and Weiss, D. Practical and effective eradication of pinworms (*Syphacia muris*) in rats by use of fenbendazole. *Lab Anim Sci* 43:481-487, 1993.
10. Binhazim, A.A., Coghlan, L.G. and Walker, C. Spontaneous hemangiosarcoma in the tail of a Long-Evans rat carrying the Eker mutation. *Lab Anim Sci* 44:191-194, 1994.
11. Binhazim, A.A., Rizvi, T.A., Coghlan, L.G., Lew, K., Schmidt, R. and Wong, P.K.Y. Rhesus thymic/liver xenografts in severe combined immunodeficient mice: Immunologic reconstitution and intrathymic infection with simian immunodeficiency virus. *Lab Investigation* 75:339-348, 1996.
12. Rundhaug, J.E., Gimenez-Conti, I., Stern, M.C., Budunova, I.V., Kiguchi, K., Bol, D.K., Coghlan, L.G., Conti, C.J., DiGiovanni, J., Fischer, S.M., Winberg, L.D. and Slaga, T.J. Changes in protein expression during multistage mouse skin carcinogenesis. *Molecular Carcinogenesis* 20:125-136, 1997.
13. Stern, M.C., Gimenez-Conti, I.B., Budunova, I., Coghlan, L., Fischer, S.M., DiGiovanni, J., Slaga, T.J. and Conti, C.J. Analysis of two inbred strains of mice derived from the SENCAR stock with different susceptibility to skin tumor progression. *Carcinogenesis* 19:125-132, 1998.
14. Wright, K.C., Satterfield, W.C., Gray, K.G., Coghlan, L.G., Mastromarino, A.J., Le Blanc, S.A., and Hill, M.J. *Animal Care and Use Handbook for Investigators*. UT MD Anderson Cancer Center. July 1998.
15. Chen, Y., Martinez, L.A., LaCava, M., Coghlan, L. and Conti, C.J. Increased cell growth and tumorigenicity in human prostrate LNCaP cells by overexpression to cyclin D1. *Oncogene* 16:1913-1920, 1998.
16. Hill, L.R., Kille, P., Weiss, D.A., Craig, T.M., and Coghlan, L.G. *Demodex muscoli* in the skin of transgenic mice. *Contemporary Topics* 38:13-18, 1999.
17. Coghlan, L.G., Gimenez-Conti, I., Kleiner, H.E., Fischer, S.M., Rundhaug, J.E., Conti, C.J., Slaga, T.J., and DiGiovanni, J. Development and initial characterization of several new inbred strains of SENCAR mice for studies of multistage skin carcinogenesis. *Carcinogenesis* 21:641-646, 2000.
18. Klug, D., Crouch, E., Carter, C., Coghlan, L., Conti, C.J., and Richie, E.R. Transgenic expression of cyclin D1 in thymic epithelial precursors promotes epithelial and T cell development. *J Immunol* 164:1881-1888, 2000.
19. Benavides, F., Stern, M.C., Glasscock, E., Coghlan, L.G., and Conti, C.J. Microsatellite DNA variants between the inbred SENCAR mouse strains. *Molecular Carcinogenesis* 28:191-195, 2000.
20. Coghlan, L., Utzinger, U., Drezek, R., Heintzelman, D., Zuluaga, A., Brookner, C., Gimenez-Conti, I., Richards-Kortum, R., and Follen M. Optimal excitation wavelengths for detection of squamous intra-epithelial neoplasia: results from an animal model. *Optics Express* 7:436-446, 2000.
21. Benavides, F., Glasscock, E., Coghlan, L.G., Stern, M.C., Weiss, D.A., and Conti, C.J. PCR-based microsatellite analysis for differentiation and genetic monitoring of nine inbred SENCAR mouse strains. *Laboratory Animal* 35: 157-162, 2001.
22. Coghlan, L., Utzinger, U., Richards-Kortum, R., Brookner, C., Zuluaga, A., Gimenez-Conti, I., and Follen, M. Fluorescence spectroscopy of epithelial tissue throughout the dysplasia-carcinoma sequence in an animal model: spectroscopic changes precede morphologic changes. *Lasers in Surgery and Medicine* 29:1-10, 2001.
23. Benavides, F.J., Coghlan, L.G., Weiss, D.A., and Conti, C.J. PCR-based microsatellite analysis for differentiation and genetic monitoring of nine inbred SENCAR mouse strains. *Laboratory Animals* 35:157-162, 2001.
24. Hill, L.R., Coghlan, L.G. and Baze, W.B. Periheal swellings in two strains of mice. *Contemporary Topics in Lab Animal Med* 41:51-53, 2002.
25. Park, S.Y., Sokolov, K., Collier, T., Aaron, J. and Richards-Kortum, R., Mackinnon, N., MacAulay, C., Coghlan, L., Milbourne, A. and Follen, M. Multispectral digital colposcopy for *in vivo* monitoring of the hamster cheek pouch model of oral carcinogenesis. *Optics Express* 13:749-762, 2005.

Principal Investigator/Program Director (Last, First, Middle):

26. Patrawala L., Calhoun T., Schneider-Broussard R., Li H., Bhatia B., Tang S., Reilly J.G., Chandra D., Zhou J., Claypool K., Coghlan L., Tang D.G. Highly purified CD44(+) prostate cancer cells from xenograft human tumors are enriched in tumorigenic and metastatic progenitor cells. *Oncogene* 25:1696-1708, 2006.
27. Lomada, D., Liu, B., Coghlan, L., Hu, Y., and Richie, E.R. Thymus medullary formation and central tolerance are restored in IKKa<sup>-/-</sup> mice that express an IKKa transgene in keratin 5+ thymic epithelial cells. *J Immunol.* 178: 829-837, 2007.
28. Aaron, J., Travis, K., Collier, T., Park, S., Coghlan, L., Follen, M., Richards-Kortum, R., and Konstantin, S. Plasmon Resonance Coupling of Metal Nanoparticles for Molecular Imaging of Carcinogenesis In Vivo, in press.
29. Carlson, A., Coghlan, L.G., Gillenwater, A., and Richards-Kortum, R. Dual-mode reflectance and fluorescence near video-rate confocal microscope for architectural, morphological, and molecular imaging of tissue. *J of Microscopy*, in press.

**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.

#### **ACTIVE**

07/01/03 - 06/30/08 (PI: Mendelsohn)

DHHS/NCI - Cancer Center Support Grant (CCSG)-Core Grant

08/01/04-07/31/08 (PI: Richards-Kortum)

NIH/NCI - Optical Systems for In Vivo Molecular Imaging of Cancer

9/30/06-5/31/11 (MacLeod)

NIH/NIEHS - Detoxification of Electrophilic Chemical Threat Agents by Nucleophilic Scavengers

12/05/06-11/30/11 (PI: MacLeod)

NIH/NCI - Mechanisms of ATF3-induced Mammary Tumorigenesis

#### **COMPLETED**

02/01/02-01/31/06 (PI: Coghlan)

NIH/DHHS - Developing and Improving Institutional Animal Resources