

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 Thomas A. Ficht	POSITION TITLE Professor, Veterinary Pathobiology, College of Veterinary Medicine & Biomedical Sciences, Texas A&M University
-------------------------	--

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE	YEAR(S)	FIELD OF STUDY
Polytechnic Inst. Of Brooklyn	B.S.	1972	Chem/Biochem
Polytechnic Inst. Of Brooklyn	M.S.	1973	Chem
Columbia University, New York	M.Phil.	1976	BioChem
Columbia University, New York	Ph.D.	1980	BioChem

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 POSITIONS:**

Professor	Texas A&M University (VTPB)	1998-present
Associate Professor	Texas A&M University (VTPB)	1990-98
Assistant Professor	Texas A&M University (VTMI)	1984-90
Postdoctoral Fellow	University of Iowa (MICR)	1980-84
Grad. Research Assistant	Vanderbilt University (MICR)	1976-80
Grad. Teaching Assistant	Columbia University (BICH)	1974-75
Research Assistant	Polytechnic Institute of Brooklyn (CHEM)	1971-72
Chemistry Lab Assistant	Thomas A Edison, H.S. (CHEM)	1967-68

HONORS AND AWARDS:**Positions**

University Research Standards Officer	1999-present
Faculty Senate Representative for CVM	1997-2003
President Brucellosis Research Conference	1996-97
International Congress Subcommittee on <i>Brucella</i> Taxonomy	1993-present
U.S. Navy Cooperative Work Study Program	1968-1970

Awards

TAES Faculty Fellow	2005
Distinguished Scientist Award, Texas A&M University Sigma Xi	2004
Received 2000 Pfizer Award for Research Excellence	2000

Individual Postdoctoral Fellowships

National Cancer Institute	1982-83
American Cancer Society	1981
Ladies Auxiliary to the VFW	1980

Editorial Boards

J. Clin. Microbiol.	2001-present
---------------------	--------------

Grant Review Committees

NIH study section Bacterial Pathogenesis	Fall 2004
NIH study section BACP	Ad Hoc since 2004
NIH study section Bacterial Biodefense	2003-current
USDA/NRICGP review panel	Spring 2003
USDA/NRICGP Strengthening Panel	Spring 1998
USDA/NRICGP Strengthening Panel	Spring 1996
DOD/USAMRDC Brucella Research Review	Spring 1996
NIH Study Section/RFA Mycobacteria	Spring 1994

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

- Jianwu Pei, Joshua E. Turse, and Thomas A. Ficht. 2007. *Brucella abortus* OPS dictates uptake and restricts NF- κ B activation in murine macrophages. Submitted to *Microbes and Infection*.
- Kahl, M., Tsolis, R. M., and Ficht, T.A. 2006. Evaluation of Protection Afforded by *Brucella abortus* and *Brucella melitensis* unmarked deletion mutants exhibiting different rates of clearance in BALB/c mice. *Infect. Immun.* 74:4048-57.
- 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; pg.5169-5177.
- Jianwu Pei, Joshua E. Turse, and Thomas A. Ficht. 2006. *Brucella abortus* Rough Mutant Invades Macrophage Through Alternative Pathway and Induces Macrophage Activation. *Infect Immun.* 74(5):2667-75.
- Jianwu Pei, Joshua E. Turse, and Thomas A. Ficht. 2006. *Brucella* Rough Mutant Infection Induced Cell Death in Murine Macrophage Requires Bacterial Protein Synthesis and Direct Interaction with the Macrophage. *Infect Immun.* 74(5):2667-75.
- O'Shea, B., S. Khare, K. Bliss, P. Klein, T.A. Ficht, L.G. Adams, and A. Rice-Ficht. 2004. Genotyping and characterization of *Mycobacterium avium* subsp. *paratuberculosis* using amplified fragment length polymorphism. *J. Clin. Microbiol.* 42:3600-6.
- den Hartigh, A. B., Y. H. Sun, D. Sondervan, N. Heuvelmans, M. O. Reinders, T. A. Ficht, and R. M. Tsolis. 2004. Differential requirements for VirB1 and VirB2 during *Brucella abortus* infection. *Infect Immun* 72:5143-9.
- Pei, J. and T. A. Ficht. 2004. *Brucella abortus* rough mutants are cytopathic for macrophages in culture. *Infect. Immun.* 72:440-50.
- Khare, S., T.A. Ficht, R.L. Santos, J. Romano, A.R. Ficht, S. Zhang, I.R. Grant, M. Libal, D. Hunter, L.G. Adams. 2004. Rapid and sensitive detection of *Mycobacterium avium* subsp. *paratuberculosis* in bovine and American bison milk and fecal samples by an immunomagnetic bead-real time PCR. *J. Clin. Microbiol.* 42:1075-81.

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.

- Characterization of Multiple Regulons Associated with Virulence in *Brucella melitensis* Using Microarrays, 9/2007-8/2009. Principal Investigator. NIH.
- Microencapsulation and Vaccine Delivery Research. 10/06-9/08. DOD/USAMRMC. Co-PI.
- Improved *Brucella* Vaccine Strains. 12/1/04-11/31/09. Principal Investigator. NIH 1R01 AI48496-04A1.
- The National Center for Foreign Animal and Zoonotic Diseases. 10/1/2004-9/30/2007. DHS/ONR, N00014-04-1-0 (PI) with 2 Co-Investigators.
- Region VI Center of Excellence for Biodefense and Emerging Infectious Diseases Research. (1/1/04- 12/31/09) Co-Investigator w/ L. G. Adams and R. Tsolis. NIH.
- Training grant in Animal Biotechnology. 7/02-8/07. Principal Investigator. USDA/NNTG 2002-38420-5806 (CSREES).