

FF Principal Investigator/Program Director (Last, first, middle **Brown, Eric Luis**)

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BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Photocopy this page or follow this format for each person.

NAME	POSITION TITLE
Eric L. Brown	Assistant Professor

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Texas A&M University	B.S.	1989	Biology
University of Texas-Houston	Ph.D.	1996	Immunology

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. If the list of publications in the last three years exceeds two pages, select the most pertinent publications. **DO NOT EXCEED TWO PAGES.**

Research Experience:

- 1990-1996 Graduate Student, University of Texas M.D. Anderson Cancer Center, Houston, TX
- 12/96-3/01 Postdoctoral Research Associate, Texas A&M University System Health Science Center, Institute of Biosciences and Technology, Center for Extracellular Matrix Biology, Houston, TX
- 4/01-8/04 Research Assistant Professor, Texas A&M University System Health Science Center, Institute of Biosciences and Technology, Center for Extracellular Matrix Biology, Houston, TX
- 8/04-4/05 Research Associate, University of Houston, Department of Health and Human Performance, Houston, TX
- 4/05-Present Assistant Professor, University of Texas School of Public Health, Department for Infectious Disease, Houston, TX,

Honors and Awards

- 1993-1996 Smith Fellow, M. D. Anderson Cancer Center
- 4/2000 Expert witness for the Texas Senate Committee on Administration focusing on tick-borne illnesses in Texas and issues relating to prevention and treatment
- 2000 Member of the Institute of Biosciences and Technology Equipment Committee
- 2000 Member of the Institute of Biosciences and Technology Animal Use and Care Committee

Teaching Appointments

- 2000-2004 Microbial Pathogenesis, Department of Extracellular Matrix Biology, Texas A&M Health Science Center
- 2003-2004 Advanced Topics in Biomedical Science, Graduate School of Biomedical Science, Texas A&M University Health Science Center
- 2005-present Public Health Microbiology I -Tropical Viruses and Parasitology, University of Texas School of Public Health

Publications

1. R. Massy, T. J. Scriba, **E.L. Brown**, R. E. Phillips and A. K. Sewell. The *S. aureus* Eap protein is a proinflammatory mediator that aggregates human lymphocytes. *Cell Microbiol.* **2006**. Submitted.
2. D.L. Haviland, **E.L. Brown**, T.J. Hollmann, R.P. Ghorbani, M. Höök, I. Gigli, R.A. Wetsel. Complement component C3 is required to prevent subcutaneous fat loss by bacterial lipase in a mouse model of *Staphylococcus aureus* skin infection. *J. Immunol.* **2006**. Submitted.
3. M. Labanderia-Rey, F. Couzon, S. Boisset, **E. L. Brown**, M. Bes, Y. Benito, M. Höök, J. Etienne, F. Vandenesch, and M.G. Bowden. The Panton-Valentine leukocidin, associated with

- Staphylococcus aureus* necrotizing pneumonia in humans, up-regulates the production of protein A and induces pneumonia in a mouse model. *Science*. **2006**. Submitted.
4. H. Järveläinen, P. Puolakkainen, S. Pakkanen, **E.L. Brown**, M. Höök, R. Iozzo, H. Sage, and T.N. Wight. A role for decorin in cutaneous wound healing and angiogenesis. *Wound Repair and Regeneration*. **2006**. 14:443-452.
 5. T.J. Ochoa, **E.L. Brown**, C.E. Guion, J.Z. Chen, R.J. McMahon, and T.G. Cleary. Effect of lactoferrin on enteroaggregative *E. coli* (EAEC). *Biochem. Cell Biol.* **2006**, 84:369-376.
 6. **E.L. Brown**, J. Kim, E.S. Reisenbichler and M. Höök. Multicomponent Lyme vaccine: three is not a crowd. *Vaccine* **2005**. 23:3867-3696.
 7. L.Y. Lee, X. Liang, M. Höök, and **E.L. Brown**. Identification of the C3-binding domains of *Staphylococcus aureus* Efb protein. *J. Biol. Chem.* **2004**, 279: 50710-50716.
 8. F.T. Liang, **E.L. Brown**, T. Wang, Renato V. Iozzo, and E. Fikrig. Protective niche for *Borrelia burgdorferi* to evade humoral immunity. *American Journal of Pathology* **2004**, 165:977-985.
 9. L.Y. Lee, M. Höök, D. Haviland, R. Wetsel, E.O. Yonter, P. Syribeys, J. Vernachio, and **E.L. Brown**. A secreted *Staphylococcus aureus* protein inhibits complement activation. *J Infect Dis* **2004**, 190:571-579.
 10. Y. Xu, J.M. Rivas, **E.L. Brown**, X. Liang, and M. Höök. Virulence potential of the Staphylococcal Adhesin CNA in experimental arthritis is determined by its affinity for collagen. *J Infect Dis* **2004**, 189:2323-2333.
 11. T.A. Willett, A.L. Meyer, **E.L. Brown** and Brigitte T. Huber. Effective 2nd Generation OspA-derived Lyme vaccine that eliminates a potentially autoreactive T cell epitope. *PNAS USA* **2004**, 101:1303-1308.
 12. D.S. Pikas, **E.L. Brown**, S. Gurusiddappa, L.Y. Lee, Y. Xu, and M. Höök. Decorin binding sites in the adhesin DbpA from *Borrelia burgdorferi*: A synthetic peptide approach. *J Biol Chem.* **2003**, 278: 30920-30926.
 13. Lee, L.Y., Miyamoto, Y.J., McIntyre, B.W., Höök, M., McCrea, K.W., McDevitt, D. and **Brown, E.L.** The *Staphylococcus aureus* Map protein is a immunomodulator that interferes with T cell-mediated responses. *J Clin Invest* **2002**, 110: 1461-1471.
 14. Cooper, D., M.W. Pride, **E.L. Brown**, D. Risin, and N.R. Pellis. Suppression of antigen-specific lymphocyte activation in modeled microgravity. *In Vitro Cell Dev Biol Anim* **2001**, 37:63-65.
 15. **Brown, E.L.**, Ullrich, S.E., Pride, M.W., and Kripke, M.L. The effect of UVB irradiation on infection of mice with *Borrelia burgdorferi*. *Photochem Photobiol* **2001**, 107:845-852.
 16. **Brown, E.L.**, Wooten, M. Johnson, B.J.B., Smith, A., Danielson, K.G., Iozzo, R.V., Dolan, M.C., Guo, B.P., Weis, J.J. and Höök, M. Resistance to Lyme disease in decorin-deficient mice. *J Clin Invest* **2001**, 73.5:537-544.
 17. **Brown, E.L.**, Guo, B.P., O'Neal, P. and Höök, M. Adherence of *Borrelia burgdorferi*: Identification of critical lysine residues in DbpA required for decorin binding. *J Biol Chem* **1999**, 274:26272-26278.
 18. Guo, B.P., **E.L. Brown**, D.W. Dorward, L.C. Rosenberg and M. Höök. Decorin binding adhesins from *Borrelia burgdorferi*. *Mol Microbiol* **1998**, 30:711-723.
 19. Pride, M.W., **E.L. Brown**, L.C. Stephens, J.J. Killion, S.J. Norris and M.L. Kripke. Specific Th1 cell lines that confer protective immunity against experimental *Borrelia burgdorferi* infection in mice. *J Leukoc Biol* **1998**, 63:542-549.
 20. **E.L. Brown**, J.M. Rivas, S.E. Ullrich, C. Young, S.J. Norris and M.L. Kripke. Modulation of immunity to *Borrelia burgdorferi* by ultraviolet irradiation: Differential effect on Th1 and Th2-type immune responses. *Eur J Immunol.* **1995**, 25:3017-3022.
 21. Jeevan, A., **E.L. Brown**, and M.L. Kripke. UV and Infectious Diseases. In *Photoimmunology-An Update*, J. Krutmann and C. Elms, Eds., Blackwell Science, Cambridge, MA **1995**, p.153.
 22. Jeevan, A., R. Evans, **E.L. Brown** and M.L. Kripke. Effect of local ultraviolet irradiation on infections of mice with *Candida albicans*, *Mycobacterium bovis* BCG, and *Schistosoma mansoni*. *J Invest Dermatol.* **1992**, 99: 59-64.
 23. Jeevan, A.Y. Denkins, **E.L. Brown** and M.L. Kripke. Biologic Effects of Light. In *Biologic Effects of Light*. Atlanta, Georgia: Walter de Gruyter & Company, New York **1991**, p.83.

Funding Sources

3/2001 - 2/2004	Centers for Disease Control "Development of a Multi-component Subunit Vaccine Against the Lyme Spirochete <i>Borrelia burgdorferi</i> " \$147,522/yr
9/2001 - 9/2003	Fondren Foundation "Development of a Multi-component Subunit Vaccine Against the Lyme Spirochete <i>Borrelia burgdorferi</i> " \$25,000/year
2/1998 - 3/2001	Centers for Disease Control "A Murine Model for Lyme Disease in Decorin Deficient Mice" \$147,522/yr
9/2005-9/2007	The University of Texas School of Public Health PRIME Award "Polymicrobial <i>E. coli</i> Infections Result in Increased Pathogenesis" \$25,000/year
Pending	NIH 1R21HL087955-01 Polymicrobial <i>E. coli</i> Infections. \$275,000 over two years Pending (Submitted June 1, 2006).