

BIOGRAPHICAL SKETCH

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|--|---------------------------------------|---------|---------------------|
| NAME Scott A. Fulton | POSITION TITLE Assistant Professor | | |
| eRA COMMONS USER NAME SFULTON | | | |
| 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 |
| The University of Michigan, Ann Arbor, MI | B.S. | 1982 | Microbiology |
| The University of Michigan, Ann Arbor, MI | M.S. | 1984 | Microbiology |
| Wayne State Univ. School of Medicine, Detroit, MI | M.D. | 1989 | Medicine |
| Case Western Reserve University, Cleveland, OH | | 1992 | Internal Medicine |
| Case Western Reserve University, Cleveland, OH | | 1995 | Infectious Diseases |

A. Positions and Honors

Positions:

- 1989-1992 Intern and Resident, Department of Medicine, University Hospitals of Cleveland, Case Western Reserve University, Cleveland, Ohio
- 1992-1995 Clinical and Research Fellow, Division of Infectious Diseases, Department of Medicine, Case Western Reserve University, Cleveland, Ohio (Supported by NIH-AIDS training grant AI07381-03).
- 1995-1997 Research Fellow of the American Lung Association, Division of Infectious Diseases, Department of Medicine, Case Western Reserve University, Cleveland, Ohio
- 1997-1998 Senior Research Associate, Division of Infectious Diseases, Department of Medicine, Case Western Reserve University, Cleveland, Ohio
- 1998-2002 Instructor, Division of Infectious Diseases, Department of Medicine, Case Western Reserve University, Cleveland, Ohio
- 2002- Assistant Professor, Division of Infectious Diseases, Department of Medicine, Case Western Reserve University, Cleveland, Ohio

Honors

- 1982 Undergraduate Class Honors, The University of Michigan
- 1985-1987 Class Honors, Wayne State University School of Medicine
- 1988 Letters of Commendation in Internal Medicine and Psychiatry
- 1989 Alpha Omega Alpha Medical Honor Society
- 1992 Medical Resident Research Award
- 1995-1997 Research Fellow, American Lung Association of Northeast Ohio

B. Publications

- Fulton, S. A.**, Johnsen, J. M., Wolf, S., Sieburth, D. S. and W.H. Boom. **1996**. IL-12 production by human monocytes infected with *Mycobacterium tuberculosis*: Role of phagocytosis. *Infect. Immun.* 64:2523-2531.
- Toossi, Z. T., Mincek, M., Seeholtzer, E., **Fulton, S. A.**, Hamilton, B. D. and C. S. Hirsch. **1997**. Modulation of IL-12 by transforming growth factor- β , (TGF- β) in *Mycobacterium tuberculosis* - infected mononuclear phagocytes and in patients with active tuberculosis. *J. Clin. Lab. Immunol.* 49: 59-75.
- Fulton, S. A.**, Cross, J.V., Toossi, Z. T. and W. H. Boom. **1998**. Regulation of IL-12 by interleukin-10,

- Transforming growth factor- β , tumor necrosis factor- α and interferon- γ in human monocytes infected with *Mycobacterium tuberculosis*-H37Ra. J. Infect. Dis. 178: 1105-1114.
4. **Fulton S. A.**, Martin, T.D., Redline, R. W. and W. H. Boom. **2000**. Pulmonary immune responses during primary *Mycobacterium bovis*-Calmette-Guerin Bacillus infection in C57Bl/6 mice. Amer. J. Resp. Cell Mol. Biol. 22: 333-343.
 5. Wilkinson, K. A., Martin, T. D., Reba, S. M., Aung, H., Redline, R., Boom, W. H., Toossi, Z. and **S. A. Fulton**. **2000**. Latency-associated peptide of transforming growth factor β enhances mycobacteriocidal immunity in the lung during *Mycobacterium bovis* BCG infection in C57BL/6 mice. Infect. Immun. 68: 6505-6508.
 6. **Fulton, S. A.**, Reba, S. M., Martin, T. D., and W. H. Boom. **2002**. Neutrophil mediated mycobacteriocidal immunity in the lung during *Mycobacterium bovis*-BCG infection in C57Bl/6 mice. Infect. Immun. 70: 5322-5327.
 7. Boom, W.H., Canaday, D.H., **Fulton, S.A.**, Gehring, A.J., Rojas, R.E. and M. Torres. **2003**. Human immunity to *M. tuberculosis*: T cell subsets and antigen processing. Tuberculosis 83: 98-106.
 8. **Fulton, S. A.** Reba, S. M., Pai, R. K., Pennini, M. Torres, M., Harding, C. V. and W. H. Boom. **2004**. Inhibition of MHC-II expression and antigen processing in murine alveolar macrophages by *M. bovis*-BCG and the 19kDa mycobacterial lipoprotein. Infect. Immun. 72: 2101-2110.
 9. Myers, A. J., Eilerston, B., **Fulton, S. A.**, Flynn, J. L. and D. H. Canaday. **2005**. Purinergic P2X7 receptor is not required for control of pulmonary *M. tuberculosis* infection. Infect. Immun. 73: 3192-3195.
 10. Kuchtey, J., **Fulton, S. A.***, Reba, S. M., Harding, C. V. and W. H. Boom. **2006**. Interferon- α/β mediates partial control of early pulmonary *Mycobacterium bovis* bacillus Calmette-Guerin infection Immunol. 118: 39-49. (*shared first authorship)
 11. Junqueira-Kipnis, A. P., Basaraba, R. J. Gruppo, V. Panalisamy, G. Turner, O. C., Hsu, T. Jacobs, W. R., **Fulton, S. A.**, Reba, S. M., Boom, W. H. and I. M. Orme. **2006**. Mycobacteria lacking the RD1 region do not induce necrosis in the lung of mice lacking interferon-g. Immunol. 119: 224-231.
 12. Anis, M. M., **Fulton, S. A.**, Reba, S. M., Harding, C. V. and W. H. Boom. **2007**. Modulation of naïve CD4+ T-cell responses to an airway antigen during pulmonary mycobacterial infection. Infect. Immun. 75: 2260-2268.
 13. Anis, M. M., **Fulton, S. A.**, Reba, S. M., Liu, Y., Harding, C. V. and W. H. Boom. **2008**. Modulation of pulmonary dendritic cell function during mycobacterial infection. Infect. Immun. 76: 671-677.

C. Research Support

Ongoing Research Support

NO1-AI95383 W. H. Boom (PI) 12/01/99 - 11/30/14
NIH

Tuberculosis Research Unit (TBRU)

This TBRU contract is for epidemiologic, immunologic, microbiologic studies of *M. tuberculosis* infection and to perform clinical trials of new immuno-therapeutic approaches, vaccines, drugs and drug treatment protocols and diagnostic tests for tuberculosis.

Pending Research Support

R03 S. A. Fulton (PI) 04/01/09 - 03/31/11
NIH / NIAID

M. bovis BCG antigen identification using bronchoalveolar lavage antibodies

Bronchoalveolar antibodies expressed during *M. bovis* BCG infection will be used to identify antigens for serodiagnostic testing and vaccine development.

Completed Research Support

RG-8407-N Fulton, S. A. (PI) 07/01/05 - 06/30/07
American Lung Association
Proteomics based identification of mycobacterial T cell antigens expressed in the murine lung during *M. bovis*-BCG infection.
Lung T cells generated during *M. bovis*-BCG infection are used to detect BCG antigens.

R21 HL076752-01 van Heeckeren, A. (PI) 12/01/04 - 11/30/06
NIH / NHLBI
P. aeruginosa lung disease in cystic fibrosis
A murine model of cystic fibrosis is used to study lung inflammation.

KO8 HL04299 Fulton, S. A. (PI) 09/01/00 - 07/31/05
NIH / NHLBI
Pulmonary immune defenses against *M. bovis*-BCG infection.
A murine model of *M. bovis*-BCG infection is utilized to determine how pulmonary immune responses control tuberculosis.
