

**BIOGRAPHICAL SKETCH**

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

NAME Dewey Mitchell Magee	POSITION TITLE Assistant Professor		
eRA COMMONS USER NAME mmagee1			
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
University of Texas Medical Branch, Galveston, TX	B.S.	1978	Medical Technology
Texas A&M University, College Station, TX	Ph.D.	1985	Microbiology
University of Pittsburgh, Pittsburgh, PA	Post-Doc	1987	Infectious Diseases

**A. Professional Positions**

Postdoctoral Fellow, Dept. of Medicine, University of Pittsburgh School of Medicine, 1985-1987.

Research Assistant Professor of Medicine, Dept. of Medicine, University of Pittsburgh School of Medicine, 1987-1988.

Assistant Professor of Medicine, Dept. of Medicine, University of Texas Health Science Center at San Antonio, 1988 - 1991.

Adjunct Assistant Professor of Medicine and Microbiology, University of Texas Health Science Center at San Antonio, 1991-2000.

Assistant Director, Dept. of Clinical Investigation, Texas Center for Infectious Disease, 1991-2000.

Assistant Professor, Department of Microbiology, University of Texas Health Science Center at San Antonio, 2000-2004.

Assistant Professor, Center for Biomedical Inventions, The University of Texas Southwestern Medical Center at Dallas, 2004-2005

Assistant Professor, Center for Innovations in Medicine, The Biodesign Institute at Arizona State University, 2005-present

Member, Institutional Biosafety Committee, UTHSCSA

Ad Hoc Reviewer, Infection and Immunity, 1992- present,

The Journal of Immunology, 1997-present,

Clinical Immunology, 2002 - present,

Journal of Clinical Microbiology, 2003 - present

Medical Mycology, 2004 - present

**B: Selected Publications:**

Wing EJ, **Magee DM**, Pearson AC, Waheed A, Shadduck. 1986. Peritoneal macrophages exposed to purified macrophage colony-stimulating factor (M-CSF) suppress mitogen- and antigen-stimulated proliferation. *J. Immunol.* **137**:2768-2773.

Wing EJ, **Magee DM**, Barczynski LK. 1987. Analysis of colony-stimulating factors and macrophage progenitors in mice immunized against *Listeria monocytogenes* by adoptive transfer. *Infect. Immun.* **55**:1843-1847.

**Magee DM**, Wing EJ, Ampel NM, Waheed A, Shadduck RK. 1987. Macrophage colony-stimulating factor (M-CSF) enhances the expression of Fc receptors on murine peritoneal macrophages. *Immunology* **62**:373-378.

**Magee DM**, Wing EJ. 1988. Antigen-specific production of colony-stimulating factors by *Listeria monocytogenes*-immune L3T4+ lymphocytes. *J. Infect. Dis.* **157**:941-949.

**Magee DM**, Wing EJ. 1988. Cloned L3T4+ T lymphocytes protect mice against *Listeria monocytogenes* by secreting interferon-gamma. *J. Immunol.* **141**:3203-3207.

- Wing EJ, **Magee DM**, Whiteside TL, Kaplan S, and Shadduck RK. 1989. GM-CSF enhances monocyte cytotoxic and secretory activity in cancer patients. *Blood*. **73**:643-646.
- Magee DM**, Wing EJ. 1989. Secretion of colony-stimulating factors by T cell clones: role in adoptive protection against *Listeria monocytogenes*. *J. Immunol.* **143**:2336-2341.
- Williams DM, **Magee DM**, Bonewald LF, Smith JG, Bleicker CA, Byrne GI, Schacter J. 1990. A role *in vivo* for tumor necrosis factor alpha in host defense against *Chlamydia trachomatis*. *Infect. Immun.* **58**:1572-1576.
- Magee DM**, Williams DM, Wing EJ, Bleicker CA, Schacter J. 1991. Colony-stimulating factor production during murine *Chlamydia trachomatis* pneumonia. *Infect. Immun.* **59**:2370-2375.
- Magee DM**, Smith JG, Bleicker CA, Carter CJ, Bonewald LF, Schacter J, Williams DM. 1992. *Chlamydia trachomatis* pneumonia induces the *in vivo* production of IL-1 and IL-6. *Infect. Immun.* **60**:1217-1220.
- Magee DM**, Williams DM, Smith JG, Bleicker CA, Grubbs BG, Schacter J, Rank RG. 1995. Role of CD8 T cells in primary *Chlamydia* infection. *Infect. Immun.* **63**:516-521.
- Magee DM**, Cox RA. 1995. Role of IFN- $\gamma$  and IL-4 in genetically-determined resistance to *Coccidioides immitis*. *Infect. Immun.* **63**:3514.
- Cox RA and **Magee DM**. Production of tumor necrosis factor alpha, interleukin 1 alpha, and IL-6 during murine coccidioidomycosis. *Infect. Immun.* **63**:4178-4180, 1995.
- Yang C, Zhu Y, **Magee DM**, Cox RA. Molecular cloning and characterization of the *Coccidioides immitis* complement fixation/chitinase antigen. *Infect. Immun.* **64**:1992-1997, 1996.
- Zhu Y, Yang C, **Magee DM**, Cox RA. Molecular cloning and characterization of *Coccidioides immitis* antigen 2 cDNA. *Infect. Immun.* **64**:2695-2699, 1996.
- Zhu Y, Yang C, **Magee DM**, Cox RA. *Coccidioides immitis* Antigen 2: analysis of gene and protein. *Gene*. **181**:121-125, 1996
- Magee DM**, Cox RA. Interleukin 12 regulation of host defenses against *Coccidioides immitis*. *Infect. Immun.* **64**:3609-3613, 1996.
- Yang MC, **Magee DM**, Kaufman L, Zhu Y, Cox RA. Recombinant *Coccidioides immitis* complement fixation antigen: detection of an epitope shared by *C. immitis*, *Histoplasma capsulatum*, and *Blastomyces dermatitidis*. *Clin. Diag. Lab. Immunol.* **4**:19-22, 1997.
- Zhu Y, Tryon V, **Magee DM**, Cox RA. Identification of *Coccidioides immitis* Antigen 2 domain that expresses B-Cell-reactive epitopes. *Infect. Immun.* **65**:3376-3380, 1997.
- Yang MC, **Magee DM**, Cox RA. Mapping of a *Coccidioides immitis*-specific epitope that reacts with complement-fixing antibody. *Infect. Immun.* **65**:4068-4074, 1997.
- Jiang C, **Magee DM**, Quitugua TN, Cox RA. Genetic vaccination against *Coccidioides immitis*: Comparison of vaccine efficacy of recombinant antigen 2 and antigen 2 cDNA. *Infect. Immun.* **67**:630-5, 1999.
- Jiang C, **Magee DM**, Cox RA. Construction of a single chain Interleukin-12-expressing retroviral vector and its application in cytokine gene therapy against experimental coccidioidomycosis. *Infect. Immun.* **67**:2996-3001, 1999.
- Jiang C, **Magee DM**, Cox RA. Co-administration of an IL-12 expression vector with Antigen 2 cDNA enhances the induction of protective immunity against *Coccidioides immitis*. *Infect Immun.* **67**:5848-5853, 1999.
- Magee DM**, Cox RA. Cell-mediated immunity and endemic mycoses. *In: Fungal Pathogenesis: Principles and Clinical Applications*. R.L. Cihlar and R.A. Calderone (eds.), Marcel Dekker, NY. 2001.
- Jiang C., **Magee D.M.**, Ivey F.D., Cox R.A. Signal sequence of *Coccidioides immitis* Antigen 2-induced protection against experimental coccidioidomycosis. *Infect. Immun.* **70**:3539, 2002.
- Magee, D.M.**, Cox, R.A. Vaccine development for coccidioidomycosis. In *Human Fungal Pathogens* (eds Domer JE, Kobayashi GS) Springer Verlag, New York.
- Ivey, F. D., Woitaske M., **Magee D. M.**, Johnston S. A., and Cox R. A. Identification of a protective antigen of *Coccidioides immitis* by expression library immunization. *Vaccine*. **21**:4359, 2003.
- Cox, R.A., and **Magee, D.M.** Coccidioidomycosis: Host Response and Vaccine Development. *Clin. Micro. Rev. Clin Microbiol Rev.* **4**:804, 2004.
- Awasthi S., and **Magee, D.M.** Differences in expression of cell surface co-stimulatory molecules, Toll-like receptor genes and secretion of IL-12 by bone marrow-derived dendritic cells from

susceptible and resistant mouse strains in response to *Coccidioides posadasii*. Cell. Immunol. 231:49, 2004.

Awasthi S., **Magee D.M.**, Coalson J.J. *Coccidioides posadasii* infection alters the expression of pulmonary surfactant proteins (SP)-A and SP-D. Respir. Res. **5**:28, 2004

Awasthi, S., Awasthi, V., **Magee, D.M.**, Coalson, J.J. Efficacy of Antigen 2/Proline-Rich Antigen cDNA-Transfected Dendritic Cells in Immunization of Mice against *Coccidioides posadasii*. J. Immunol. 175:3900, 2005.

**Magee D.M.**, Friedberg, R.L., Woitaske, M.D., Johnston, S.A., Cox, R.A. Role of B cells in vaccine-induced immunity against coccidioidomycosis. Infect. Immun. 73:7011, 2005.

### **C. Research Support:**

#### Discovery of subunit vaccine candidates against glanders

Role: Co-Investigator

Agency: NIH - Western Regional Center for Biodefense and Emerging Infectious Diseases

Period of Funding: 03/05 – 02/08

Goal of Project: To functionally identify protective antigens of *Burkholderia mallei* through expression library immunization. The identified genes will be tested individually in a lethal challenge model to confirm their individual protective capacity.