

BIOGRAPHICAL SKETCH

Provide the following information for all key personnel.
Follow the sample format for each person found in **Biosketch Sample**. **DO NOT EXCEED FOUR PAGES.**

NAME Zheng, Mingquan, M.D.	POSITION TITLE Assistant Professor		
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
School of Medicine, Xinjiang Medical College in Xinjiang, China	M.D.	1981-1986	Medicine
Louisiana State University Health Sciences Center (LSUHSC)	Postdoctoral	1996-2001	Physiology/Immunology

A. Positions and Honors.

Positions and Employment

7/1986-7/1996	Residency, Fellowship and Attending physician (Psychiatry) The Fourth People's Hospital of Urumqi in Xinjiang, China
1/2002-6/2003	Research Associate III , Gene Therapy Program Louisiana State University Health Sciences Center
7/2003-6/2004	Research Associate , Section of Pulmonary, Department of Pediatrics Children's Hospital of Pittsburgh/University of Pittsburgh School of Medicine
7/2004-1/2006	Instructor , Section of Pulmonary, Department of Pediatrics Children's Hospital of Pittsburgh/University of Pittsburgh School of Medicine
2/2006-12/2008	Assistant Professor, Research , Section of Pulmonary, Department of Pediatrics, Children's Hospital of Pittsburgh/University of Pittsburgh School of Medicine.
1/2009-present	Assistant Professor, Research , Department of Genetics, School of Medicine, Louisiana State University Health Sciences Center.

Professional Memberships

2001	American Society of Gene Therapy
2000	American Thoracic Society
1987	Chinese Medical Association

Honors

1998,2001	Outstanding Trainee Award (American Federation for Medical Research)
2002, and 2003	
2001, and 2002	Superior Quality Research Work (Department of Medicine, LSUHSC)2003 and
2002, and 2003	Travel Award Grant (American Thoracic Society)

B. Selected peer-reviewed publications (in chronological order).

1. JE. Shellito, M. Zheng, P. Ye, S. Ruan, MK. Shean, J. Kolls. Effect of alcohol consumption on host release of interleukin-17 during pulmonary infection with *Klebsiella pneumoniae*. Alcoholism: Clinical and Experimental Research 25-6 872-881, 2001.
2. Zheng M, Shellito JE, Marrero L, Zhong Q, Julian S, Ye P, Wallace V, Schwarzenberger P, and Kolls JK. CD4+ T cell-independent vaccination against *Pneumocystis carinii* in mice. The Journal of Clinical Investigation 2001 Nov; 108(10): 1469-74.
3. JA. Spitzer, M. Zheng, JJ. Spitzer. Cross-tolerance LPS and ethanol intoxication modulates hepatic nitric oxide production in a gender dependent manner. BioScience 7 2002 May 1: 99-108.
4. Chad Steele, Mingquan Zheng, Erana Young, Luis Marrero, Judd E. Shellito, and Jay K. Kolls. Host Resistance against *Pneumocystis carinii* Pneumonia in $\gamma\delta$ T Cell-Deficient Mice: Protective Role of IFN- γ and CD8+ T Cells. Infection Immunology. 2002 Sep; 70(9):5208-15.
5. Kyle I. Happel*, Mingquan Zheng*, Erana Young, Lee J. Quinton, Euan Lockhart, Alistair J. Ramsay, Judd E. Shellito, Jill R. Schurr, Gregory J. Bagby, Steve Nelson, and Jay K. Kolls. Cutting Edge: Roles of Toll-Like Receptor 4 and IL-23 in IL-17 Expression in Response to *Klebsiella pneumoniae* Infection. Journal of Immunology, 2003 170: 4432-4436. (* Equal Contribution)
6. Chad Steele, Luis Marrero, Steve Swain, Allen G. Harmsen, Mingquan Zheng, Gordon D. Brown, Siamon Gordon, Judd E. Shellito, and Jay K. Kolls. Alveolar Macrophage-mediated Killing of *Pneumocystis carinii* f. sp. *muris* Involves Molecular Recognition by the Dectin-1 β -Glucan Receptor. J. Exp. Med. 2003 198: 1677-1688.
7. McAllister F, Steele C, Zheng M, Young E, Shellito JE, Marrero L, Kolls JK. T cytotoxic-1 CD8+ T cells are effector cells against pneumocystis in mice. J Immunol. 2004 Jan 15; 72 (2):1132-8.
8. KI. Happel*, PJ. Dubin*, M Zheng*, N Ghilardi, C Lockhar, LJ. Quinton, AR. Odden, JE. Shellito, GJ. Bagby, S Nelson, Jay K. Kolls and. Divergent roles of IL-23 and IL-12 in Host Defense against Klebsiella Pneumoniae. J. Exp. Med. 2005, 202: 761-769. (* Equal Contribution)
9. Tan RJ, Lee JS, Manni ML, Fattman CL, Tobolewski JM, Zheng M, Kolls JK, Martin TR, Oury TD. Inflammatory cells as a source of airspace extracellular superoxide dismutase after pulmonary injury. Am J Respir Cell Mol Biol. 2006 Feb;34(2):226-32.
10. F. McAllister, C Steele, M Zheng, JE. Shellito, and JK. Kolls. In Vitro Effector Activity of Pneumocystis carinii-Specific T-Cytotoxic-1CD8+ T Cells: Role of Granulocyte-Macrophage Colony-Stimulating Factor. Infect Immun. 2005 Nov;73(11):7450-7.
11. Zheng M, Ramsay AJ, Robichaux MB, Norris KA, Kliment C, Crowe C, Rapaka RR, Steele C, McAllister F, Shellito JE, Marrero L, Schwarzenberger P, Zhong Q, Kolls JK. CD4+ T cell-independent DNA vaccination against opportunistic infections. J Clin Invest. 2005 Dec;115(12):3536-44.

12. Zhang Z, Zheng M, Bindas J, Schwarzenberger P, Kolls JK. Critical Role of IL-17 Receptor Signaling in Acute TNBS-induced Colitis. *Inflamm Bowel Dis*. 2006 May;12(5):382-388.
13. McAllister F, Ruan S, Steele C, Zheng M, McKinley L, Ulrich L, Marrero L, Shellito JE, Kolls JK. CXCR3 and IFN Protein-10 in Pneumocystis Pneumonia. *J Immunol*. 2006 Aug 1;177(3):1846-1854.
14. McKinley L, Logar AJ, McAllister F, Zheng M, Steele C, Kolls JK. Regulatory T Cells Dampen Pulmonary Inflammation and Lung Injury in an Animal Model of Pneumocystis Pneumonia. *J Immunol*. 2006 Nov 1;177(9):6215-6226.
15. Rapaka RR, Goetzman ES, Zheng M, Vockley J, McKinley L, Kolls JK, Steele C. Enhanced Defense against *Pneumocystis carinii* Mediated by a Novel Dectin-1 Receptor Fc Fusion Protein. *J Immunol*. 2007 Mar 15;178(6):3702-3712.
16. Aujla SJ, Chan YR, Zheng M, Fei M, Askew DJ, Pociask DA, Reinhart TA, McAllister F, Edeal J, Gaus K, Husain S, Kreindler JL, Dubin PJ, Pilewski JM, Myerburg MM, Mason CA, Iwakura Y, Kolls JK. IL-22 mediates mucosal host defense against Gram-negative bacterial pneumonia. *Nature Medicine* 14, 275 - 281 (2008)
17. Ruan S, McKinley L, Zheng M, Rudner X, D'Souza A, Kolls JK, Shellito JE. Interleukin-12 and Host Defense against Murine *Pneumocystis Pneumonia*. *Infect Immun*. 2008 May; 76(5): 2130-7;
18. Chan YR, Liu JS, Pociask DA, Zheng M, Mietzner TA, Berger T, Mak TW, Clifton MC, Strong RK, Ray P, Kolls JK. Lipocalin 2 is required for pulmonary host defense against *Klebsiella* infection. *J. Immunol*. 2009 Apr 15;182(8):4947-56.