

BIOGRAPHICAL SKETCH

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NAME Shaper Mirza	POSITION TITLE Assistant Professor
eRA COMMONS USER NAME (credential, e.g., agency login)	

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

INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Karachi Pakistan	B.Sc (hons)	1989	Biochemistry
University of Karachi Pakistan	M. Sc	1990	Biochemistry
University of Alabama at Birmingham-USA	PhD	2006	Microbiology

A. Positions and Honors.

1991-1993 Research Associate Pakistan	Department of Microbiology The Aga Khan University Karachi
1993-1994 Research Assistant Karachi Pakistan	Department of Microbiology The Aga Khan University
1994-1996 Staff Technologist Karachi Pakistan	Department of Pathology The Aga Khan University
1996 Senior Technologist Pakistan	Department of Pathology The Aga Khan University Karachi
1996-1999 Research Assistant at Birmingham	Department of Pulmonary Medicine University of Alabama
2000-2006 Graduate Student Birmingham	Department of Microbiology University of Alabama at
2006-2008 Postdoctoral Fellow Birmingham	Department of Microbiology University of Alabama at
2008 Research Associate Birmingham	Department of Microbiology University of Alabama at
2008 Assistant Professor Science Center Huston	Department of Epidemiology University of Texas, Health

Other Experiences and Professional Memberships

1993 Visiting Research Scholar RIVM Netherlands
2000-present Member American Society for Microbiologist

Honors

2004 Gail Casttel award of Excellence in Microbiology for the best graduate student poster presentation at the Microbiology Annual retreat at Stone Mountain National Park Georgia Atlanta

2005 Student travel award for 5th International Conference on Structure and Function of Lactoferrin at Waikiki Beach Honolulu Hawaii

2006 Award of Excellence in Microbiology for the best post-doctoral poster presentation at the Microbiology Annual Retreat at Sandestin Beach Florida

B Selected peer-reviewed publications

- 1 S.P.Hoch, J.A. Khan, S. Rehaman, Mirza S, M.Khurshid, J.B. McCormick. Crimean-Congo Hemorrhagic fever treated with oral ribavirin. 1995 *Lancet*. 346, 472-474.
- 2 Mirza S. Crimean Congo Hemorrhagic Fever. A Commentary. *JCPSP J.college of Physician and surgeons Pakistan*. 1996. 6(1) 83-85.
3. Paul PE, Patel AY, Mirza S, Fisher-Hoch SP, Luby SP, Expansion of epidemic dengue viral infection to Pakistan. *Int J. Infect. Dise*. 1998. Apr-Jun: 2(4): 197-201.
4. Moatter T, Mirza S, Siddique MS, Soomro IN. Detection of Mycobacterium tuberculosis in paraffine embedded intestinal tissue specimen by polymerase chain reaction: Characterization of IS 6110 element negative strains. *JAMA J. Pak. Med Assoc*. 1998 Jun; 48(6): 174-178
5. Altaf A Luby SP, Ahmed AJ, Zadi N, Khan AJ, Mirza S, JB McCormick and Fisher-Hoch SP. Outbreak of Crimean-Congo hemorrhagic fever in Quetta Pakistan: Contact tracing and risk assessment. *Trop. Med. Int Health* 1998 Nov; 3(11); 878-882.
6. Hakansson A, Roche H, Mirza S, McDaniel LS, Brooks-Walter A, Briles DE. Characterization of binding of human lactoferrin to pneumococcal surface protein A (PspA) *Infect. Immune*. 2001. May 69 (5); 3372-3381.
7. Mirza S, Restrepo BI, McCormick JB, Fisher-Hoch SP. Diagnosis of tuberculosis lymphadenitis using a polymerase chain reaction on peripheral blood mononuclear cells. *Am J Trop Med Hyg*. 2003 Nov;69(5):461-5.
8. Mirza S, Hollingshead SK, Benjamin WH Jr, Briles DE. PspA protects *Streptococcus pneumoniae* from killing by apolactoferrin, and antibody to PspA enhances killing of pneumococci by apolactoferrin [corrected]. *Infect Immun*. 2004 Sep;72(9):5031-40. Erratum in: *Infect Immun*. 2004 Dec;72(12):7379.
9. Daniels CC, Briles TC, Mirza S, Hakansson AP, Briles DE. Capsule does not block antibody binding to PspA, a surface virulence protein of *Streptococcus pneumoniae*. *Microb Pathog*. 2006 May; 40(5): 228-33
10. Sankovich Olga, William J Cook, Mirza S, Susan Hollingshead, Irina I Protasevich, David E Briles and Debasish Chattopadhyay. Structure of a complex of human lactoferrin N-lobe with pneumococcal surface protein A provides insight into microbial defense mechanisms. *J Mol Biol*. 2007 Jul 20; 370(4): 701-13