

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 Khurram Shahzad MD		POSITION TITLE Post-doc Research Fellow	
eRA COMMONS USER NAME SHAHZADK			
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
Govt. College Sargodha, Pakistan	FSc.	1997	Premedical Studies
King Edward Medical College, Pakistan	MBBS	2004	Medicine
Columbia University, Mailman School of Public Health, NY	MS	2011	Biostatistics, Clinical Research Methods
Columbia University, NY	Post-doc		Cardiac Transplantation Research

A. Positions and HonorsPositions

2008-pres Post-doc Research Fellow, Cardiac Transplantation Research, Columbia University

B. Peer-reviewed publications (in chronological order)Peer reviewed publications

1. **Shahzad K**, Sinha A, Latif F, Deng MC. Standardized operational procedures in clinical gene expression biomarker panel development. In: Batch Effects and Experimental Noise in Microarray Analysis: Sources and Solutions (Editor: Scherer A). *John Wiley & Sons Ltd*, Chichester 2009.
2. Latif F, Cadeiras M, Bayern MP, **Shahzad K**, Sinha A, Deng MC. Challenges of Long-term Mechanical Circulatory Support Therapy. *Expert Rev. Med. Devices* 2008; 5:413-414.
3. Cadeiras M, Bayern MP, Burke E, Dedrick R, Gangadin AR, Latif F, **Shahzad K**, Sinha A, Marboe CC, Califano A, Deng MC. Gene Expression Profiles in Patients with Antibody Mediated Rejection after Cardiac Transplantation. *J Heart Lung Transplant* 2008; 27:932-4.

C. Research Support***Invasive Monitoring Attenuation Through Gene expression (IMAGE) Study***

Sponsor: XDx Inc, South San Francisco

Role: Co-Investigator

Period: Sept 2008-Ongoing

Summary: The long-term objective is to develop a diagnostic gene set based on a specifically developed leukocyte gene chip to noninvasively diagnose cardiac allograft rejection. The hypothesis to be tested is that non invasive monitoring is not less than compared to the conventional biopsy based monitoring in heart transplant patients.

Principal Investigator/Program Director (Last, First, Middle): Shahzad, Khurram

Biology of Human Long-Term Mechanical Circulatory Support

Sponsor: NHLBI (US\$17 Mill) Specialized Center for Clinically Oriented Research (SCCOR)

Role: Post-doc Fellow

Period: January 2008-December 2010

Summary: Infection is the most common cause of death in long-term Mechanical Circulatory Support-Device-supported heart failure patients, while both infection and bleeding complications are the major drivers of cost. Cell transplantation offers the promise of actively promoting regeneration of myocardial function, allowing potential temporary device use as a “bridge to recovery” rather than permanent implantation as a destination. These questions are addressed in this translational SCCOR which consists of clinical and basic research components.