

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
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NAME Manuel Prinz von Bayern		POSITION TITLE Research Associate	
eRA COMMONS USER NAME			
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
University of Munich, Munich, Germany	Dipl. rer. nat.	2000	Biochemistry
Adolf Butenandt Institute, Munich, Germany	Grad. Thesis	2000-2001	Physiological Chemistry
Columbia University, New York, NY		2002-present	Molecular Cardiology

A. Positions and Honors.

2000-2001 Graduate Thesis, Adolf-Butenandt-Institut Physiological Chemistry University of Munich
 2001-2002 Research Fellow, Clinical Chemistry Laboratory University of Munich/ Grosshadern
 2002-present Research Fellow, Molecular Cardiology/Heart Failure, Columbia University, NY, NY

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

Cadeiras M; **Bayern MP**; Pal, A; Asai, T; Naka, Y; Deng, MC. Destination therapy: an alternative for end-stage heart failure patients not eligible for heart transplantation.

Current Opinion in Organ Transplantation. 2005;10(4):369.

Asai T, Baron HM, **Bayern MP**, Sakaguchi T, Arrecubieta C, Cespedes CA, Lee M, Lowy FD, Marboe CC, Deng MC, Naka Y. A Mouse Aortic Patch Model for Mechanical Circulatory Support. **Journal of Heart and Lung Transplantation.** 2005; 24(8):1129.

C. Research Support. .**Ludwig Maximilian University Research Fellowship Grant**

Role: Principal Investigator

Period: 01/01/2005-12/31/2005

Summary: The major goal of the grant is to develop more biocompatible surface materials for artificial hearts in humans and to establish the basis for an independent scientific approach to connect the material to the bloodstream. I have developed a prototype with a micro frame (13x13mm) made out of polyacryl under the supervision of Mario C. Deng, M.D. The micro frame facilitate the attachment of the membranes to the aorta.

Biology of Human Long-Term Mechanical Circulatory Support – NHLBI SCCOR

Role: Research Associate

Period: July 2005-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.