

Cuihua Zhang, MD, PhD

Present position: Associate Professor, Departments of Internal Medicine, Medical Pharmacology & Physiology, and Nutritional Sciences, University of Missouri, Columbia MO

Education: MD (1985) in Medicine from Jin Zhou Medical College from PR China; PhD (1995) in Physiology from Chinese Academy of Medical Science and Peking Union Medical College, Beijing, China.

Professional Societies: American Heart Association, American Physiological Society and Microcirculatory Society

National Funding: 1) American Heart Association (AHA), Grant-in-Aid (PI, 2004-2006): “Mechanisms of Reperfusion-Induced Endothelial Injury”; 2) Pfizer Atorvastatin Research Award (ARA: a focus on the science. 2004-2007): “Mechanisms of Reperfusion-Induced Endothelial Injury”; 3) National Institutes of Health (NIH) COBRE grant (2004-2006): “Role of Inflammation on Endothelial Reperfusion Injury”; 4) AHA Emergency Grant (2006-2007): “Role of TNF alpha in Endothelial Dysfunction in the Metabolic Syndrome and in Diabetes”; 5) American Heart Association, Scientist Development Grant (2006-2010): “Role of TNF alpha in Endothelial Dysfunction in the Metabolic Syndrome and in Diabetes”; 6) NIH RO1 (HL077566-01, 2006-2011): “Mechanisms of Reperfusion-induced Endothelial Injury”. 7) NIH RO1 (HL085119-01, 2007-2012): Role of Cytokine-Induced Inflammation in Endothelial Dysfunction in Diabetes.

Committee Participation: Program Committee (ATVB Spring meetings and 2009 Fall Meetings of MCS); Award and fellowship committee for APS; Membership Committee for MCS

Grant Review: AHA Peer Review Committee (Southeast, 2006; Western, 2007-2008; and national center-Vascular Wall since 2009) and ad hoc for NIH HM and MIM study section since 2007.

Peer Review: Circulation; Circulation Research; American Journal of Physiology; Basic Research in Cardiology; Journal of the American College of Cardiology; Arteriosclerosis Thrombosis and Vascular Biology; Proceedings of National Academy of Sciences, U.S.A.; Science; Trends in Pharmacological Sciences; Diabetic Medicine; Journal of Cellular and Molecular Medicine; Journal of Molecular and Cellular Cardiology; World Journal of Cardiology; and Microcirculation

Chaired Sessions for National Conference: Coronary Microcirculation for AHA meeting (November 2004, 2006 and 2007); Region Circulation for AHA meeting in Dallas, (November 2005); ATVB Annual meetings (April 2008-2009); Gulf Coast APS meeting in New Orleans (April 2005); Experimental Biology meeting in San Francisco, Co-Chair with Dr. Paul Vanhoutte in Wiggers Award Featured Topic: Pivotal Role of Endothelium in Deranged Vascular Control (2006).

Honors and Awards: Conselho Nacional de Desenvolvimento Científico and Tecnológico (CNPq) Fellowship, Brazilian (1996-1997); The Microcirculatory Society (MCS) Travel Award for Outstanding Young Investigators (2003); American Physiology Society (APS) CV Section Young Investigator Award (2003); AHA Peer Review Committees (Regional: Southeast: 2005-2006, Western: 2007-2008; and National Center: Vascular Wall); Visiting Professor of Chinese Academy of Medical Science, Beijing, China (2006-); Werner Risau New Investigator Award in Vascular Biology, ATVB (2007); NIH Peer Review Committees, ad hoc for HM and MIM (2007); and Fellow of APS CVS and Fellow of AHA (2007).

Current Research Interests: To understand the underlying mechanisms responsible for the pathophysiological manifestations of ischemic heart disease in coronary microcirculation. We study genetically modified mice to understand the role of specific genes in the pathophysiological sequelae of cardiovascular diseases, e.g., hypertension, atherosclerosis, diabetes at the molecular, cellular, and intact tissue levels.

Personal Statement: My membership began in the Microcirculatory Society (MCS) in 1998 and I have been actively interacting with the MCS at the annual society conferences and other activities during this period. A major goal in my career has been to do outstanding science and to serve the societies I belong by conducting an independent research program that interfaces my research ideas in collaboration with a strong team of independent investigators. My service on the MCS Membership Committee began this year (2009-). I am willing to continue to serve the MCS and expect to emphasize aiding young investigators in their career development.