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EDUCATION

1996 B.A/B.Sc University of Melbourne, Parkville, Australia
2000 Ph.D University of Melbourne, Parkville, Australia

POSITIONS AND EMPLOYMENT

2000 – 2005 Post-doctoral fellow (laboratory of Dr. Andrew Marks), Columbia University College of Physicians and Surgeons, New York City, NY
2005 – 2006 Senior Research Assistant (laboratory of Dr. Gerald Dorn II), University of Cincinnati, Cincinnati, OH
2006 – 2007 Research Assistant Professor (laboratory of Dr. Gerald Dorn II), University of Cincinnati, Cincinnati, OH
2008 – 2011 Senior Scientist (laboratory of Dr. Gerald Dorn II), Washington University School of Medicine, St. Louis, MO
2011 – present Assistant Professor (tenure-track), Department of Internal Medicine, Center for Pharmacogenomics, Washington University School of Medicine, St. Louis, MO

PROFESSIONAL MEMBERSHIPS

Member American Association for the Advancement of Science (AAAS)
Member American Heart Association (Basic Cardiovascular Sciences and Functional Genomics/Translational Biology councils)
Member American Diabetes Association

HONORS AND AWARDS

1996 First-class honors in B.Sc (Hons.) degree, Department of Physiology, University of Melbourne
2002 American Heart Association (Heritage Affiliate) postdoctoral fellowship
2013-2014 Study section member, Basic Cell & Gene Expression 3 section, American Heart Association

REPRESENTATIVE SCIENTIFIC PUBLICATIONS:

1. Matkovich SJ, Hu Y, Dorn GW, 2nd. Regulation of cardiac microRNAs by cardiac microRNAs. [Circ Res. 2013;113:62-71](#). PubMed PMID: 23625950.
2. Aly H, Rohatgi N, Marshall CA, Grossenheider TC, Miyoshi H, Stappenbeck TS, Matkovich SJ, McDaniel ML. A novel strategy to increase the proliferative potential of adult human beta-cells while maintaining their differentiated phenotype. [PLoS One 2013; 8\(6\):e66131](#); PubMed Central PMCID: PMC3680388.
3. Hu Y*, Matkovich SJ*, Hecker PA, Zhang Y, Dorn GW, II. Epitranscriptional orchestration of genetic reprogramming is an emergent property of stress-regulated cardiac microRNAs. [Proc Natl Acad Sci USA. 2012;109:19864-9](#). * equal contribution

4. Matkovich SJ*, Hu Y, Eschenbacher WH, Dorn LE, Dorn GW, II*. Direct and indirect involvement of microRNA-499 in clinical and experimental cardiomyopathy. [Circ Res. 2012;111:521-31](#)* co-corresponding authors
5. Matkovich SJ, Van Booven DJ, Eschenbacher WH, Dorn GW, 2nd. RISC RNA sequencing for context-specific identification of in vivo microRNA targets. [Circ Res. 2011;108:18-26](#). PubMed PMID: 21030712; PubMed Central PMCID: PMC3017647.
6. Matkovich SJ, Van Booven DJ, Hindes A, Kang MY, Druley TE, Vallania FL, et al. Cardiac signaling genes exhibit unexpected sequence diversity in sporadic cardiomyopathy, revealing HSPB7 polymorphisms associated with disease. [J Clin Invest. 2010;120:280-9](#). PubMed PMID: 20038796; PubMed Central PMCID: PMC2798680.