

Vita

Ramya Vijayakumar

DEGREES

Dec 2016	Ph.D. in Biomedical Engineering, Washington University in St. Louis
Oct 2007	M.S. in Biomedical Engineering, Rutgers University, New Jersey
May 2003	B.A.Sc. in Computer Engineering, University of Ottawa, Canada

AWARDS

1. First prize for research poster and presentation at Biomedical Engineering Graduate Student Poster Competition, Washington University in St. Louis, MO, March 2011
2. Dr. Yoram Rudy Scholar, Washington University in St. Louis, 2008-09, 2009-10

SELECTED PUBLICATIONS

1. **Vijayakumar R***, Vasireddi SK, Cuculich PS, Faddis MN, Rudy Y, “Methodology Considerations in Phase Mapping of Human Cardiac Arrhythmias.” *Circulation Arrhythmia and Electrophysiology* 2016; CIRCEP.116.004409.
2. **Vijayakumar R***, Silva JN, Desouza KA, Abraham RL, Strom M, Sachar F, Van Hare GF, Haïssaguerre M, Roden DM, Rudy Y, “Electrophysiologic Substrate in Congenital Long QT Syndrome: Noninvasive Mapping with Electrocardiographic Imaging (ECGI)” *Circulation* 2014;130:1936-1943.
3. Wang Y, Cuculich PS, Zhang J, Desouza KA, **Vijayakumar R**, Chen J, Faddis MN, Lindsay BD, Smith TW, Rudy Y, “Noninvasive Electroanatomic Mapping of Human Ventricular Arrhythmias Using ECG Imaging (ECGI)” *Science Translational Medicine* 2011; 3(98):191-200.

* Joint first authorship with S.K.V and J.N.S respectively

4. Cuculich PS, Zhang J, Wang Y, Desouza KA, **Vijayakumar R**, Woodard PK, Rudy Y, "The Electrophysiologic Cardiac Ventricular Substrate in Patients after Myocardial Infarction: Noninvasive Characterization with ECG Imaging (ECGI)" *Journal of the American College of Cardiology* 2011;58:1893-1902.
5. Cuculich PS, Wang Y, Lindsay BD, **Vijayakumar R**, Rudy Y, "Noninvasive real-time mapping of an incomplete pulmonary vein isolation using Electrocardiographic Imaging (ECGI)" *Heart Rhythm* 2010;7:1316-1317.
6. Ghosh S, Cooper DH, **Vijayakumar R**, Zhang J, Pollak S, Haissaguerre M, Rudy Y, "Early repolarization associated with sudden death: Insights from noninvasive Electrocardiographic Imaging (ECGI)" *Heart Rhythm* 2010;7(4):534-537.

BOOK CHAPTER

Rudy Y, Cuculich PS, **Vijayakumar R**, "Advances in Noninvasive Electrocardiographic Imaging: Examples of Atrial Arrhythmias" In: *Cardiac Mapping, Fourth Edition* Eds.: Shenasa M, Hindricks G, Borggrefe M, et al. Wiley-Blackwell Publishing, 2012, pp: 712-721.

ABSTRACTS & POSTER PRESENTATIONS

1. **Vijayakumar R**, Silva JN, Desouza KA, Abraham RL, Van Hare GF, Roden DM, Rudy Y. Electrophysiologic Substrate in Patients with Long QT Syndrome (LQTS): Noninvasive Mapping with ECGI. Heart Rhythm Society, Denver, CO, May 2013.
2. **Vijayakumar R**, Silva JN, Abraham RL, Van Hare GF, Roden DM, Rudy Y, "Electrocardiographic Imaging (ECGI) of congenital Long QT Syndrome." Gordon Research Conference on Cardiac Arrhythmia Mechanisms, Ventura, CA, February 2013.
3. Agrawal A, **Vijayakumar R**, Cuculich PS, "Electrocardiographic Imaging Demonstrates Early Structural and Functional Changes Associated with Paroxysmal Atrial Fibrillation in Humans." American Heart Association Scientific Sessions, Los Angeles, CA, November 2012.

4. **Vijayakumar R**, Wang Y, Cuculich PS, Zhang J, Desouza KA, Rudy Y, “Noninvasive Electrocardiographic Imaging (ECGI) of Human Ventricular Arrhythmias.” Gordon Research Conference on Cardiac Arrhythmia Mechanisms, Galveston, TX, February 2011.

INVITED TALKS

1. “Electrophysiologic Substrate in Patients with Long QT Syndrome (LQTS): Noninvasive Mapping with ECGI”, Heart Rhythm Society's 34th Annual Scientific Sessions, Denver, CO, May 2013.
2. “Mapping Long QT Syndrome”, 2nd Annual John Boineau Research Symposium, Washington University School of Medicine, MO, March 2013.