



CURRICULUM VITAE



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**Assistant Professor, Medicine/Cardiology
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EDUCATION

- 9/95 – 6/98 Northwestern University, B.S. in Biomedical Engineering, Suma Cum Laude
- 9/98 – 6/02 Stanford University School of Medicine, M.D.
- 6/02 – 6/03 Internship in Internal Medicine, University of California Los Angeles Medical Center.
- 6/03 – 6/05 Residency in Internal Medicine, University of California Los Angeles Medical Center.
- 6/05 – 6/10 Fellowship in Cardiology, University of California, Los Angeles Medical Center.
- 6/05 – 1/11 University of California, Los Angeles, Specialty Training and Advanced Research (STAR) Program- M.S. in Clinical Research – Department of Biomathematics
- 7/10 – 6/11 Fellowship in Clinical Cardiac Electrophysiology, University of California, Los Angeles
- 3/14 – 4/16 University of California, Los Angeles, Ph.D. in Molecular, Cellular, and Integrative Physiology.

LICENSURE

1994 – Present Permanent License: Medical Board of California #A 87382

BOARD CERTIFICATION

American Board of Internal Medicine: **Internal Medicine** – Certified 8/2005

American Board of Internal Medicine: **Cardiovascular Disease** – Certified 11/2009

American Board of Internal Medicine: **Clinical Cardiac Electrophysiology** – Certified 12/2011.

American Board of Nuclear Medicine: **Nuclear Cardiology** – Certified 12/2007

PROFESSIONAL EXPERIENCE

| | |
|----------------|------------------------------------------------------------------------------------|
| 7/13 – Present | Assistant Professor of Medicine, UCLA Cardiac Arrhythmia Center |
| 1/14 – Present | Director of Clinical and Translational Research, UCLA Cardiac Arrhythmia Center |
| 7/11 – 12/13 | Associate Director of Research, UCLA Cardiac Arrhythmia Center |
| 7/12 - 7/13 | Assistant Professor of Medicine – Health Sciences, UCLA Cardiac Arrhythmia Center. |
| 7/11- 7/12 | Clinical Instructor of Medicine, UCLA Cardiac Arrhythmia Center. |
| 6/99 – 9/99 | Stanford University Human Physiology teaching assistant. |
| 3/98 – 6/98 | Stanford University Family Medicine teaching assistant. |
| 1/98 – 3/98 | Biomedical Engineering Dept, Systems Physiology teaching assistant. |
| 12/97 – 6/02 | Organic Chemistry and Physics instructor at Kaplan Educational Centers. |

PROFESSIONAL ACTIVITIES

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|----------------|------------------------------------------|
| 2014 – Present | Heart Rhythm Society Fellow (FHRS) |
| 4/11 – Present | Heart Rhythm Society |
| 1/06 – Present | Member of American Heart Association |
| 1/06 – Present | Member of American College of Cardiology |

JOURNAL EDITORIAL BOARD

12/15- Present Heart Rhythm Journal Editorial Board

EDITORIAL SERVICES/JOURNAL PEER REVIEW

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|------------------|-----------------------------------------------------------------------------------------------|
| 12/15 – Present | Journal Peer Review: <i>Journal of Physiology</i> |
| 12/15 – Present | Journal Peer Review: <i>Heart Rhythm Case Reports</i> |
| 3/15 – Present | Journal Peer Review: <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> |
| 1/15 – Present | Journal Peer Review: <i>American Journal of Physiology – Heart and Circulatory Physiology</i> |
| 1/14 – Present | Journal Peer Review: <i>Journal of Molecular and Cellular Cardiology</i> |
| 12/14 – Present | Journal Peer Review: <i>Circulation Arrhythmias and Electrophysiology</i> |
| 1/2013 – Present | Journal Peer Review: <i>Journal of American College of Cardiology</i> |
| 6/2012 – Present | Journal Peer Review: <i>American Journal of Cardiology</i> |
| 2009 – Present | Journal Peer Review: <i>Journal of Cardiovascular Electrophysiology</i> |
| 2011 – Present | Journal Peer Review: <i>Heart Rhythm</i> |
| 1/14 – Present | Journal Peer Review: <i>Journal of Interventional Cardiac Electrophysiology</i> |

- 2009 Abstract Grading: Abstracts for the American College of Cardiology Scientific Sessions.
- 10/2016 Abstract Grading: Abstracts for the American College of Cardiology Scientific Sessions.

HONORS/AWARDS

- 2015 NIH New Innovator Award
- 2015 Joan and Douglas P Zipes Publication of the Year Award from Heart Rhythm Society
- 2009 Tibor Fabian Research Award, David Geffen School of Medicine at UCLA
- 2008 Tibor Fabian Research Award, David Geffen School of Medicine at UCLA
- 2008 University of California, Los Angeles, Cardiology Fellowship Research Award
- 2007 University of California, Los Angeles, Cardiology Fellowship Research Award
- 1999 Stanford University Medical Student Research Award
- 1997 Society of Women Engineers Dorothy Lemke Howard Award for most outstanding female engineering undergraduate student
- 1997 Northwestern University Frank G Hough Memorial Scholarship award for most outstanding/well rounded student
- 1995-1998 Northwestern University Deans List

RESEARCH GRANTS AND FELLOWSHIPS RECEIVED

NIH/NHLBI

DP2HL132356-01 Vaseghi (PI) 09/30/15-06/30/20

\$1,500,000/ over 5 years

Cardiac Afferent Neurotransmission and Modulation of Ventricular Parasympathetic Control

The major goal of this study is to study pathological afferent neurotransmission leading to cardiac parasympathetic dysfunction in the setting of myocardial infarction.

Role: PI

NIH/SPARC Initiative

10/1/2015-9/30/2018

1OT2OD001984 – 01 Shivkumar (PI)

\$2,631,291/over 3 years

Comprehensive functional mapping of neuroanatomy and neurobiology of the heart

The major goal of this study is to delineate autonomic neural pathways that control cardiac function across multiple species including humans.

Role: Co-I (20% effort)

AHA

11FTF7550004 Vaseghi (PI)
\$120,000/year

07/1/2011 – 06/30/16

Autonomic regulation of infarct border zones and the pathogenesis of sudden cardiac death.

The goal of this study is to assess the effect of sympathetic stimulation and blockade on infarct and infarct border zones in order to better understand the heterogeneity caused by the autonomic nervous system on repolarization and ventricular arrhythmias in a porcine infarct model.

Role: PI

NIH/NHLBI

R01 HL084261 Shivkumar (PI)
\$252,534/year

01/07/13-12/31/16

Electrophysiological Effects of Neural Remodeling of the Ventricles

The major goal of this project is to assess the effects of direct sympathetic stimulation and blockade on electrophysiological properties of the ventricles in patients with normal hearts and cardiomyopathy.

Role: Co-I (20% effort)

NIH/NHLBI

R21 HL118533 Hu (PI)
\$147,000/year

08/19/13-05/31/2015

Late Gadolinium Enhancement MRI for Patients with Implantable Cardiac Devices

The major goal of this study is study MRI pulse sequences that would reduce cardiac artifact from implantable cardiac devices, particularly in late gadolinium enhanced images

Role: Co-I (5% effort)

MULTI-CENTER TRIALS/CLINICAL RESEARCH

Executive and Steering Committee Member and UCLA PI: PREVENT VT Clinical Trial: Randomized prospective clinical trial designed to assess effects of cervicothoracic sympathectomy in patient with ICD shocks s/p catheter ablation procedures. 9 national and international sites currently recruited. In process applying for NIH UG3/UH3.

COURSES TAUGHT

2007: C237 Human Cardiovascular Physiology Course, Director: Kenneth P. Roos Ph.D.

2007: Advanced Clinical Skills Course for Medical Students, David Geffen UCLA School of Medicine

2008: C237 Human Cardiovascular Physiology Course, Director: Kenneth P. Roos Ph.D.

5/2009: Basic Heart Sounds for UCLA nursing students, UCLA School of Nursing, CA.

Summer 2010: Medical Student STTP Research Fellowship Preceptor/Mentor: David Geffen School of Medicine at UCLA

10/2010: Interpretation of the EKG for critical care nurses, Ronald Reagan UCLA Medical Center, Los Angeles, CA.

Summer 2011: Medical Student STTP Research Fellowship Preceptor/Mentor: David Geffen School of Medicine at UCLA

Fall 2011: HBD 407: Medical Student Longitudinal Clinical Preceptorship

Winter 2012: HBD 408: Medical Student Longitudinal Clinical Preceptorship

Spring 2013: HBD409: Medical Student Longitudinal Clinical Preceptorship

Summer 2013: Medical Student STTP Research Fellowship Preceptor/Mentor: David Geffen School of Medicine at UCLA

Winter 2013: HBD 408: Medical Student Longitudinal Clinical Preceptorship

Summer 2014: Medical Student STTP Research Fellowship Preceptor/Mentor: David Geffen School of Medicine at UCLA

INVITED LECTURES AND PRESENTATIONS

1. Advanced Clinical Skills Course for medical students: UCLA School of Medicine, Los Angeles, 2007
2. Human Cardiovascular Physiology Course C237 for medical students: UCLA School of Medicine, Los Angeles, 2007
3. Human Cardiovascular Physiology Course C237 for medical students: UCLA School of Medicine, Los Angeles, 2008
4. Basic Heart Sounds Lecture for nursing students, UCLA, Los Angeles, 5/2009
5. Interpretation of the EKG for critical care nurses, UCLA, Los Angeles: 10/2010
6. Autonomic nervous system and ventricular arrhythmias, Division of Cardiology Grand Rounds, Cardiovascular Research Training Institute, University of Utah, 2/2011
7. Sympathetic modulation of ventricular arrhythmias, Division of Cardiology Grand Rounds, Oregon Health Sciences University, Portland, 2/2011
8. Neuraxial modulation in the difficult VT patient, Heart Rhythm Society, San Francisco, CA 5/2011
9. Sympathetic stimulation increases heterogeneity in repolarization, UCLA Cardiac Arrhythmia Center Grand Rounds, Los Angeles, 2/2012
10. 7/2012: UCLA General Cardiology Fellowship Lecture Series: Management of Arrhythmias in the CCU
11. PREVENT VT Clinical Trial: UCLA Cardiac Arrhythmia Center Grand Rounds, Los Angeles, 11/2012
12. 11/2012: American Heart Association Scientific Sessions; Moderator: Autonomic, Reflex and Neurohumoral Control of Circulation:

13. 1/2013: UCLA, EKG Internal Medicine Resident Teaching Conferences: Treadmill EKGs.
14. Vagal Stimulation, Coactivation, and Arrhythmogenesis: UCLA Cardiac Arrhythmia Center Grand Rounds, Los Angeles, 6/2013
15. 7/2013: UCLA General Cardiology Fellowship Lecture Series: Management of Arrhythmias in the CCU
16. 9/2013: Cardiac Sympathetic Denervation and Ventricular Arrhythmias: the PREVENT VT Trial, UCLA Cardiac Arrhythmia Center Grand Rounds
17. 10/2013: 8th International Symposium on Ventricular Arrhythmias – speaker – “PREVENT VT Trial”
18. 3/2014: Sympathetic Modulation of Ventricular Arrhythmias: Stanford University Cardiology Grand Rounds
19. 5/2014: Effects of Vagal Nerve Stimulation on Ventricular Electrophysiology, UCLA Cardiac Arrhythmia Center Grand Rounds
20. 7/2014: UCLA General Cardiology Fellowship Lecture Series: Initial Treatment of Arrhythmias in the CCU
21. 9/2014: California Heart Rhythm Symposium 2014 – Speaker – “Beyond catheter ablation: autonomic modulation of ventricular arrhythmias.”
22. 12/2014: AF VT VF Summit, Chicago, IL – Speaker- “Cardiac and renal denervation.”
23. 2/2015: UCLA Cardiology Grand Rounds: Ventricular Arrhythmias in Non-ischemic Cardiomyopathy: Current Challenges and Potential Therapies Beyond Ablation.
24. 5/2015: Heart Rhythm Society VT Summit, Boston, MA– Speaker - “VT/VF storm and cardiac sympathetic denervation”
25. 6/4/2015: Pulmonary Fellow Lecture Series: “Pacemakers”
26. 10/2015: 10th International Symposium on Ventricular Arrhythmias, Philadelphia, PA –Speaker– “PREVENT VT Updates”
27. 11/2015: 2015 American Heart Association Society Scientific Sessions, Orlando, FL – Speaker – “Neural remodeling and damage in ventricular arrhythmogenesis.”
28. 12/2015: AF VT VF Summit, Chicago, IL – Invited Faculty/Speaker – “Cardiac Sympathetic and Renal Denervation”
29. 5/2016: Heart Rhythm Society VT Summit, San Francisco, CA- Speaker- “Autonomic modulation for refractory ventricular arrhythmias”
30. 6/2016: Cardiostim-EHRA Europace 2016, Nice, France- Speaker- “Autonomic nervous system: Neural role in sudden cardiac death”
31. 7/2016: Japanese Heart Rhythm Society 2016, Sapporo, Japan- Speaker-“Role of vagal nerve stimulation in ventricular arrhythmogenesis”
32. 8/2016: Cardiac Autonomic Symposium, Oxford, England-Speaker-“Cardiac sympathetic denervation/decentralization for treatment of ventricular arrhythmias”

33. 9/2016: California Heart Rhythm Society, San Francisco, CA-Speaker-
“Autonomic modulation for refractory ventricular arrhythmias”
34. 10/2016: 11th International Symposium on Ventricular Arrhythmias, New York,
NY-Speaker- “Stellate ganglionectomy for ventricular arrhythmias in various
disease states”

PUBLICATIONS-

RESEARCH PAPERS- PEER REVIEWED

1. Harvell JD, **Vaseghi M**, Natkuman Y, Kohler S, Kim Y. Large atypical cells of lymphomatoid papulosis are CD56-negative: a study of 18 cases. **J Cutan Pathol.** 2002;29:88-92.
2. **Vaseghi M**, Tarin TT, Levin PS, Terris DJ. Minimally invasive orbital decompression for Graves’ ophthalmopathy. **Ann Otol Rhinol Laryngol.** 2003;112:57-62.
3. **Vaseghi M**, Cesario DA, Ji S, Shannon KM, Wiener I, Fonarow GC, Yeatman LA, Valderrabano M, Shivkumar K. Beyond coronary sinus angiography: the value of coronary arteriography and identification of the pericardiophrenic vein during left ventricular lead placement. **Pacing Clin Electrophysiol** 2005;28:185-190.
4. **Vaseghi M**, Cesario D, Shannon KM, Shivkumar K. Incessant tachycardia following catheter ablation of an accessory pathway: what is the mechanism? **Heart Rhythm** 2005;2: 441-2.
5. **Vaseghi M**, Cesario D, Swerdlow CD, Shivkumar K. Counterclockwise atrial flutter in dextrocardia. **Heart Rhythm** 2005;2:673-4.
6. **Vaseghi M**, Cesario DA, Valderrabano M, Boyle NG, Ratib O, Finn JP, Wiener I, Shivkumar K. Impedance monitoring during catheter ablation of atrial fibrillation. **Heart Rhythm** 2005; 2:914-20.
7. Cesario DA, **Vaseghi M**, Boyle NG, Fishbein MC, Valderrabano M, Narasimhan C, Wiener I, Shivkumar K. Value of high-density endocardial and epicardial mapping for catheter ablation of hemodynamically unstable ventricular tachycardia. **Heart Rhythm** 2006;3:1-10.
8. **Vaseghi M**, Cesario DA, Mahajan A, Wiener I, Boyle NG, Fishbein MC, Horowitz BN, Shivkumar K. Catheter ablation of right ventricular outflow tract tachycardia: value of defining coronary anatomy. **J Cardiovasc Electrophysiol** 2006;17:632-7.
9. Horowitz BN, **Vaseghi M**, Mahajan A, Cesario DA, Buch E, Valderrabano M, Boyle NG, Ellenbogen KA, Shivkumar K. Percutaneous intrapericardial echocardiography during catheter ablation: a feasibility study. **Heart Rhythm** 2006;3:1275-82.

10. Buch E, **Vaseghi M**, Cesario DA, Shivkumar K. A novel method for preventing phrenic nerve injury during catheter ablation. *Heart Rhythm* 2007;4:95-8.
11. Lellouche N, De Diego C, Cesario DA, **Vaseghi M**, Horowitz BN, Mahajan A, Wiener I, Boyle NG, Fonarow GC, Shivkumar K. Usefulness of preimplantation B-type natriuretic peptide level for predicting response to cardiac resynchronization therapy. *Am J Cardiol* 2007;99:242-6.
12. **Vaseghi M**, Shannon KM, Wetzel GT, Shivkumar K. Reentry around the heart. *Heart Rhythm* 2007;4:236-8.
13. Bidart C, **Vaseghi M**, Cesario DA, Mahajan A, Fujimura O, Boyle NG, Shivkumar K. Radiofrequency current delivery via transeptal needle to facilitate septal puncture. *Heart Rhythm* 2007;4:1573-6.
14. Buch E, Lellouche N, De Diego C, **Vaseghi M**, Cesario DA, Fujimura O, Wiener I, Child JS, Boyle NG, Shivkumar K. Left ventricular apical wall motion abnormality is associated with lack of response to cardiac resynchronization therapy in patients with ischemic cardiomyopathy. *Heart Rhythm* 2007;4:1300–5.
15. Lellouche N, De Diego C, **Vaseghi M**, Buch E, Cesario DA, Mahajan A, Wiener I, Fonarow GC, Boyle NG, Shivkumar K. Cardiac resynchronization therapy response is associated with shorter duration of atrial fibrillation. *Pacing Clin Electrophysiol* 2007;30:1363-8.
16. **Vaseghi M**, Lee J, Currier J. Acute myocardial infarction secondary to left main coronary artery compression by pulmonary artery aneurysm in pulmonary arterial hypertension. *J Invasive Cardiol* 2007;19:375-7.
17. **Vaseghi M**, Boyle NG, Kedia R, Patel J, Cesario DA, Wiener I, Kobashigawa J, Shivkumar K. Supraventricular tachycardia after orthotopic cardiac transplantation. *J Am Coll Cardiol* 2008;51:2241–9.
18. **Vaseghi M**, Lohan D, Finn P, Lai C, Porter-Buxton V, Ardehali A, Arimie R. Right Coronary Artery Aneurysm Complicated by Fistulous Formation Presenting with Transient Ischemic Attack. *UCLA Proceedings*, 2008;12.
19. **Vaseghi M**, Shivkumar K. The role of the autonomic nervous system in sudden cardiac death. *Prog Cardiovasc Dis* 2008;50:404–419.
20. **Vaseghi M**, Lellouche N, Ritter H, Fonarow GC, Patel JK, Moriguchi J, Fishbein MC, Kobashigawa JA, Shivkumar K. Mode and mechanism of death following orthotopic heart transplantation. *Heart Rhythm* 2009;6:503-9.
21. Bourke T, **Vaseghi M**, Michowitz Y, Sankhla V, Shah M, Swapna N, Boyle NG, Mahajan A, Narasimhan C, Lokhandwala Y, Shivkumar K. Neuraxial modulation for refractory ventricular arrhythmias: value of thoracic epidural anesthesia and surgical left cardiac sympathetic denervation. *Circulation* 2010;121:2255-62
22. Nakahara S, Tung R, Ramirez RJ, Michowitz Y, **Vaseghi M**, Buch E, Gima J, Wiener I, Mahajan A, Boyle NG, Shivkumar K. Nakahara S, Tung R, Ramirez RJ, Michowitz Y, **Vaseghi M**, Buch E, Gima J, Wiener I, Mahajan A, Boyle NG, Shivkumar K. Characterization of the arrhythmogenic substrate in ischemic and nonischemic cardiomyopathy implications for catheter ablation of hemodynamically unstable ventricular tachycardia. *J Am Coll Cardiol* 2010;55:2355-65.

23. **Vaseghi M**, Shivkumar K. Catheter ablation of idiopathic ventricular tachycardia. *Circ Arrhythm Electrophysiol* 2010;3:219-21.
24. **Vaseghi M**, Lee MS, Currier J, Tobis J, Shapiro S, Aboulhosn J. Percutaneous intervention of left main coronary artery compression by pulmonary artery aneurysm. *Catheter Cardiovasc Interv* 2010;76:352-6.
25. Michowitz Y, Nakahara S, Bourke T, Buch E, **Vaseghi M**, DE Diego C, Wiener I, Mahajan A, Shivkumar K. Electrophysiological Differences between the Epicardium and the Endocardium of the Left Atrium. *Pacing Clin Electrophysiol* 2011;34:37-46.
26. Nakahara S*, **Vaseghi M***, Ramirez R, Fonseca C, Lai C, Finn P, Mahajan A, Boyle N, Shivkumar K. Characterization of Myocardial Scar. *Heart Rhythm* 2011;8:1060-1067.
27. Mathuria N, **Vaseghi M**, Buch E, Shivkumar K. Successful ablation of an epicardial ventricular tachycardia using a surgical ablation tool. *Circ Arrhythm Electrophysiol* 2011;4:e84-6.
28. **Vaseghi M**, Ackerman MJ, Mandapati R. Restricting sports for athletes with heart disease: are we saving lives, avoiding lawsuits, or just promoting obesity and sedentary living? *Pediatr Cardiol* 2012;33:407-416.
29. **Vaseghi M**, Lux R, Mahajan A, Shivkumar K. Sympathetic stimulation increases dispersion of repolarization in humans with myocardial infarction. *Am J Physiol Heart Circ Physiol* 2012;302:H1838-46
30. **Vaseghi M**, Zhou W, Shi J, Ajjola OA, Hadaya J, Shivkumar K, Mahajan A. Sympathetic innervation of the anterior left ventricular wall by the right and left stellate ganglia. *Heart Rhythm* 2012;9:1303-9.
31. **Vaseghi M**, Fujimura O, Shivkumar K. Narrow QRS complex tachycardia: what is the mechanism? *Heart Rhythm* 2013;10:1402-4.
32. Ajjola OA, **Vaseghi M**, Mahajan A, Shivkumar K. Bilateral cardiac sympathetic denervation: why, who, and when? *Expert Rev Cardiovasc Ther* 2012;10:947-9.
33. **Vaseghi M**, Shivkumar K. Neuraxial modulation of ventricular arrhythmias: a new hope. *Heart Rhythm* 2012;9:1888-9.
34. Ajjola OA, **Vaseghi M**, Zhou W, Yamakawa K, Benharash P, Hadaya J, Lux RL, Mahajan A, Shivkumar K. Functional differences between junctional and extrajunctional adrenergic receptor activation in mammalian ventricle. *Am J Physiol Heart Circ Physiol* 2013;304:H579-88.
35. Tung R, Michowitz Y, Yu R, Mathuria N, **Vaseghi M**, Buch E, Bradfield J, Fujimura O, Gima J, Discepolo W, Mandapati R, Shivkumar K. Epicardial ablation of ventricular tachycardia: an institutional experience of safety and efficacy. *Heart Rhythm* 2013;10:490-8.
36. Zhou W, Yamakawa K, Benharash P, Ajjola OA, Ennis D, Hadaya J, **Vaseghi M**, Shivkumar K, Mahajan A. Effect of stellate ganglia stimulation on global and regional left ventricular function as assessed by speckle tracking echocardiography. *Am J Physiol Heart Circ Physiol* 2013;304:H840-7.

37. **Vaseghi M**, Macias C, Tung R, Shivkumar K. Percutaneous interventricular septal access in a patient with aortic and mitral mechanical valves: a novel technique for catheter ablation of ventricular tachycardia. *Heart Rhythm* 2013;10:1069-73.
38. Yagishita D, Ajjola OA, **Vaseghi M**, Nsair A, Zhou W, Yamakawa K, Tung R, Mahajan A, Shivkumar K. Electrical homogenization of ventricular scar by application of collagenase: a novel strategy for arrhythmia therapy. *Circ Arrhythm Electrophysiol* 2013;16:776-83.
39. **Vaseghi M**, Yamakawa K, Sinha A, So E, Zhou W, Ajjola OA, Lux RL, Laks MM, Shivkumar K, Mahajan A. Modulation of regional dispersion of repolarization and T-peak to T-end interval by the right and left stellate ganglia. *Am J Physiol Heart Circ Physiol* 2013; 305:H1020-30.
40. Tung R, Mathuria NS, Nagel R, Mandapati R, Buch EF, Bradfield JS, **Vaseghi M**, Boyle NG, Shivkumar K. Impact of local ablation on interconnected channels within the ventricular scar: mechanistic implications for substrate modification. *Circ Arrhythm Electrophysiol* 2013; 6:1131-8.
41. Rashid S, Rapacchi S, **Vaseghi M**, Tung R, Shivkumar K, Finn J, Hu P. Improved late gadolinium enhancement MR Imaging for Patients with implanted cardiac devices. *Radiology* 2014;270:269-74.
42. **Vaseghi M**, Gima J, Kanaan C, Ajjola OA, Marmureanu A, Mahajan A, Shivkumar K. Cardiac sympathetic denervation in patients with refractory ventricular tachycardia or electrical storm: intermediate and long term follow up. *Heart Rhythm* 2014; 11:360-6.
43. Canan T, **Vaseghi M**, Girsky MJ, Yang EH. A complex rhythm treated simply: fascicular ventricular tachycardia. *Am J Med* 2014;127:601-04.
44. Yamakawa K, So E, Rajendran P, Hoang J, Makkar N, Mahajan A, Shivkumar K, **Vaseghi M**. Electrophysiological effects of right and left vagal nerve stimulation on the ventricular myocardium. *Am J Physiol Heart Circ Physiol* 2014;307:H722-31.
45. Yagishita D, Chui RW, Yamakawa K, Rajendran PS, Ajjola OA, Nakamura K, So EL, Mahajan A, Shivkumar K, **Vaseghi M**. Sympathetic nerve stimulation, not circulating norepinephrine, modulated T-peak to T-end interval by increasing global dispersion of repolarization. *Circ Arrhythm Electrophysiol* 2015;9:174-185.
46. Yu R, Ma S, Tung R, Stevens S, Macias C, Bradfield J, Buch E, **Vaseghi M**, Fujimura O, Gornbein J, Mandapati R, Shivkumar K, Boyle NG. Catheter ablation of scar-based ventricular tachycardia: relationship of procedure duration to outcomes and hospital mortality. *Heart Rhythm* 2015;12:86-94.
47. Mao J, Moriarty J, Mandapati R, Shivkumar K, **Vaseghi M**. Catheter ablation of accessory pathways near the coronary sinus, value of defining coronary arterial anatomy. *Heart Rhythm* 2015;12:508-14
48. Ajjola OA, Yagishita D, Reddy NK, Yamakawa K, Vaseghi M, Downs AM, Hoover DB, Ardell JL, Shivkumar K. Remodeling of stellate ganglion neurons after spatially targeted myocardial infarction: neuropeptide and morphologic changes. *Heart Rhythm* 2015;12:1027-35.

49. Ajjola OA, Howard-Quiano K, Scovotti J, **Vaseghi M**, Lee C, Mahajan A, Shivkumar K. Augmentation of cardiac sympathetic tone by percutaneous low-level stellate ganglion stimulation in humans: a feasibility study. *Physiol Rep* 2015; 3:e12328.
50. Bradfield JS, **Vaseghi M**, Shivkumar K. Renal denervation for refractory ventricular arrhythmias. *Trends Cardiovasc Med* 2014;24:206-13.
51. Irie T, Yu R, Bradfield JS, **Vaseghi M**, Buch EF, Ajjola O, Macias C, Fujimura O, Mandapati R, Boyle NG, Shivkumar K, Tung R. Relationship between sinus rhythm late activation zones and critical sites of scar-related ventricular tachycardia: systematic analysis of isochronal late activation mapping. *Circ Arrhythm Electrophysiol* 2015; 8:390-9.
52. **Vaseghi M***, Tung R*, Frankel DS, Vergara P, Di Biase L, Nagashima K, Yu R, Vangala S, Tseng CH, Choi EK, Khurshid S, Patel M, Mathuria N, Nakahara S, Tzou WS, Sauer WH, Vakil K, Tedrow U, Burkhardt JD, Tholakanahalli VN, Saliaris A, Dickfeld T, Weiss JP, Bunch TJ, Reddy M, Kanmanthareddy A, Callans DJ, Lakkireddy D, Natale A, Marchlinski F, Stevenson WG, Della Bella P, Shivkumar K. Freedom from recurrent ventricular tachycardia after catheter ablation is associated with improved survival in patients with structural heart disease: An International VT Ablation Center Collaborative Group study. *Heart Rhythm* 2015;12:1997-2007
53. Watanabe A, Seki A, Fishbein MC, Shivkumar K, **Vaseghi M**. Arrhythmogenic right ventricular cardiomyopathy: electroarchitecture of the substrate. *Heart Rhythm Case Reports*, 2016;2:47-51.
54. Yamakawa K, Rajendran PS, Takamiya T, Yagishita D, So EL, Mahajan A, Shivkumar K, **Vaseghi M**. Vagal nerve stimulation activates vagal afferent fibers that reduce cardiac efferent parasympathetic effects. *Am J Phys Heart Circ Physiol* 2015;309:H1579-90.
55. Rajendran PS, Nakamura K, Ajjola OA, **Vaseghi M**, Armour JA, Ardell JL, Shivkumar K. Myocardial infarction induces structural and functional remodeling of the intrinsic cardiac nervous system. *J Phys* 2016;594:321-41.
56. Yamakawa K, Howard-Quijano K, Zhou W, Rajendran PS, Yagishita D, **Vaseghi M**, Ajjola OA, Armour JA, Shivkumar K, Ardell JL, Mahajan A. Central vs. peripheral neuraxial sympathetic control of porcine ventricular electrophysiology. *Am J Phys Heart and Circ Phys* 2016;310:R414-21.
57. Khakpour H, **Vaseghi M**. Electrocardiographic Tpeak to Tend interval: The short and long of it. *Heart Rhythm* 2016;13:925-6.
58. Vakil KP, Roukoz H, Tung R, Levy WC, Ananad IS, Shivkumar K, Rector TS, **Vaseghi M**, Tholakanahalli V. Mortality prediction using a modified Seattle Heart Failure Model may improve patient selection for ventricular tachycardia ablation. *Am Heart J* 2015;170:1099-104.
59. Saenz LC, Corrales FM, Bautista W, Traina M, Meymandi S, Rodriguez DA, Tellez LJ, **Vaseghi M**, Garcia F, Shivkumar K, Bradfield JS. Cardiac sympathetic denervation for intractable ventricular arrhythmias in Chagas disease. *Heart Rhythm* 2016;13:138-94.

60. Hamon D, Sadron M, Bradfield JS, Chaachoui N, Tung R, Elayi C, **Vaseghi M**, Dhanja TS, Boyle NG, Maury P, Shivkumar K, Lellouche N. A new combined parameter to predict premature ventricular complexes induced cardiomyopathy: impact and recognition of epicardial origin. *J Cardiovasc Electrophysiol* 2016;6:709-17.

*indicates equal contribution by authors

RESEARCH PAPERS- NON-PEER REVIEWED

1. Vaseghi M, Lohan D, Finn P, Lai C, Porter-Buxton V, Ardehali A, Arimie R. Right Coronary Artery Aneurysm Complicated by Fistulous Formation Presenting with Transient Ischemic Attack. *UCLA Proceedings*, 2008;12.

BOOK CHAPTERS

1. **Vaseghi M**, Buch E, Shivkumar K, Electrophysiological Interventions in Heart Failure. In ***Atlas of Heart Failure***, 5th edition. *Editors:* Colucci W, Braunwald E. Current Medicine Group: Philadelphia, 2007:317-338.
2. **Vaseghi M, Boyle N, Shivkumar K.** Case 20 and Case 24. In ***Cardiac Electrophysiology: Clinical Case Review***. *Editors:* Natale A, Al-Ahmad A, Wang P, DiMarco J. Springer 2011.
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