

**Name/Qualifications:** Dr Jim Pouliopoulos BSc. MSc (Med). PhD

**Present Positions:** Senior Hospital Scientist – Department of Cardiology, Western Sydney Local Health District.

**Associations:** Clinical Senior Lecturer – The University of Sydney.

**Education:** Doctor of Philosophy (Medicine – Cardiac Electrophysiology). The University of Sydney. Submitted March 2010; Passed Examination August 2010. Conferred May 2011.

Masters of Science (in Medicine), by research. The University of Sydney Graduated 2002.

Bachelor of Science (Biology). The University of Western Sydney – 1996.

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**Career Overview:**

I am a Senior Hospital Scientist (0.8 FTE), within the dept. of cardiology, Westmead Hospital. My primary role is in managing and coordinating large animal related research into cardiovascular disorders. My secondary role is in managing the Westmead Hospital Large Animal PC2 catheterisation laboratory, involving ongoing infrastructure development. My primary research interest is in cardiac electrophysiology post-myocardial infarction, with the aims (1) to develop novel methods of mapping arrhythmogenic substrates, (2) to elucidate pathophysiological mechanisms of cardiac arrhythmogenesis, which may lead to curative therapies. I am also appointed as Clinical Senior Lecturer, Sydney Medical School, University of Sydney. JP is also a Cardiovascular Scientist in clinical measurements at Ramsay Healthcare, Westmead Private Hospital (0.2 FTE).

Career Summary: (1996) - completed a BSc. (1997/98) – Was awarded summer scholarship in bioinformatics at the Commonwealth Science and Industrial Research Organisation (C.S.I.R.O) – Division of Animal Production. (1998) - Continued involvement in research at C.S.I.R.O. (2002) – Completed MSc (Med), in basic science (virology) research within the department of infectious diseases and immunology, University of Sydney. (2003-2005) Researcher, Department of Cardiology, Westmead Hospital. (2010) Completed PhD. (2011–Current) Senior Hospital Scientist, The department of Cardiology, Westmead Hospital, undertaking post-doctoral research.

Contribution to field: I have published and contributed to approximately 38 publications totalling 550 citations. I encompass a unique combination of research skills spanning clinical and experimental electrophysiology (mapping and ablation of arrhythmias), bioinformatics and technical computing (data analysis, and analytical software development) and basic science (immunology, virology, and protein interactions). I have also published in the Top Ranking, premiere cardiology journal Circulation.

**Overall Track Record in the last 5 years**

Research Output: I have contributed to approximately 23 publications (294 citations) since 2012.

Research Support: (2016) – I was awarded sponsorship from the Western Sydney Local Health District, Research and Education Network to attend the “Marlow Hampshire Health Researcher Leadership Development Program”. (2015) – I was awarded an Early Career Researcher Grant from the university of Sydney. (2012) – I was awarded sponsorship from Medtronic to undergo specialist training program in cardiac electrophysiology. (2006) – I was awarded a postgraduate research scholarship by the Cardiac Society of Australia and New Zealand. (2006)

**Collaborations:** I have ongoing collaborations as associate investigator on the following NHMRC project grants: APP1126276 “Pluripotent Stem Cell Derived Cardiomyocytes: Improving Electrical Stability and Quantifying Functional Improvements”, 2017-2020; APP1128864 “Preclinical Assessment of Gene Therapy for Ventricular Arrhythmia”, 2017-2020. In addition, I am also currently collaborating with Dr. Alistair McEwan (Biomedical Engineering and IT institute, the University of Sydney resulting in 1 publication); and Prof. Simon Fleming (Deputy Head of School – Physics, the University of Sydney). Dr Damia Mawad (Lecturer, School of Materials Science and Engineering, University of New South Wales)

**Professional and peer-review involvement:** I was invited as adhoc peer reviewer for the following journals: Heart Lung Circulation (2016); Nature: Cell Death and Disease (2015); Journal Translational Research (2014); PlosOne (2014); Circulation (2013); Circulation: Arrhythmia and Electrophysiology (2009). JP was nominated as an external assessor by NHMRC for project grants in 2016, 2014, and 2012. Invited Medtronic (2008, 2010) and St Jude Medical (2007, 2008, 2010) to give industry related presentations at international conferences on the topics of Cardiac 3D electroanatomical mapping of ventricular arrhythmias and their substrates.

**International Standing:** – I am emerging as an international leader in cardiac mapping, pathophysiology of myocardial infarction, and mechanisms of reentrant cardiac arrhythmias. I have given 35 presentations at prestigious international and national conferences. I was recently invited as faculty to present and chair scientific sessions spanning 4 consecutive years at the Asia Pacific Heart Rhythm conference which were held in New Delhi, India (2014), Sydney, Australia (2015), Seoul, Korea (2016), and Tokyo, Japan (2017). I was awarded as finalist to present in the prestigious “Ralph Reader Prize”, basic science session, at annual Scientific Meeting of the Cardiac Society of Australia and New Zealand. (2009) - I was awarded 1st Prize winner of the “Best Paper Award” sessions presented at the Pacific Heart Rhythm Society Session (Ceremony held in the Great Hall of the People), Beijing, China.

**Supervision/Mentoring:** I have supervised 1 Masters (Med.Sci), and 1 3rd year MBBS hon students. I am currently supervising 4 PhD students on various projects 1.Dr. Sara Al Raisi [MB BCh BAO MRCP]; 2. Dr. Rahul Samanta [MBBS MRCP FRACP]; 3. Mr. Melad Ferraha [B.MedSci (Hons) BEng MEng (Med)]; and Mr Christopher Davey [B.MedSci (Hons) B.Physics MEng (Med)]

**Patents:** APPLICATION #2017900356: “Methods and apparatuses for monitoring cardiac dysfunction”. Jim Pouliopoulos, Pramesh Kovoor, Tony Barry. Western Sydney Local Health District, NSW (2017).

### **Awards and Scholarships:**

- 2013: Awarded as a finalist to present in the prestigious “Ralph Reader Prize”, basic science session, at the 61st Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, 2013.
- 2012: I was awarded sponsorship from Medtronic for enrolment in a Vocational Graduate Diploma of Cardiac Electrophysiology (30733QLD) course through CEPIA.
- 2009: 1st Prize winner of the “Best Paper Award”. Presented on the 24th of October 2009 (Session 702) at the 2nd Asia Pacific Heart Rhythm Society Session, Beijing, China.
- 2006: Postgraduate research scholarship awarded by the Cardiac Society of Australia and New Zealand (CSANZ).
- 1997: Awarded a summer scholarship position in bioinformatics by the C.S.I.R.O division of animal production.

### **Research Support / Grants:**

- 2017-2020: NHMRC project grant (APP1126276) “Pluripotent Stem Cell Derived Cardiomyocytes: Improving Electrical Stability and Quantifying Functional Improvements” – Role as named Associate Investigator.

- 2017-2020: NHMRC project grant (APP1128864) “Preclinical Assessment of Gene Therapy for Ventricular Arrhythmia” – Role as named Associate Investigator.
- 2016: Westmead Association Research Travel Grant (Westmead Hospital, Australia), for travel to APHRS, October 2016.
- 2016: Was awarded sponsorship from the Western Sydney Local Health District, Research and Education Network to attend the “Marlow Hampshire Health Researcher Leadership Development Program”.
- 2014: Was awarded funding from the Westmead Medical Research Foundation to support publication costs for the manuscript titled: “Spatial Characterization of Electrogram Morphology from Transmural Recordings in the Intact Normal Heart” which was published in PLOS one.
- 2015: Was awarded an Early Career Researcher Grant from the university of Sydney. (2012) – Was awarded sponsorship from Medtronic to undergo specialist training program in cardiac electrophysiology.
- 2006: Was awarded postgraduate research scholarship by the Cardiac Society of Australia and New Zealand.
- 2006: Received funding from Servier Laboratories (Australia) Pty. Ltd. in support of conference travel expenses.

### Conference Invitations:

I was invited as Faculty to chair sessions and present my insights stemming from my research into the role of fat and fibrosis on ventricular arrhythmogenesis in the post-myocardial infarct period. The invited presentations are listed below:

1. Pouliopoulos J. “Topic to be advised”. 11th Asia-Pacific Heart Rhythm Scientific Session, 17-18th October 2018, Taipei, Taiwan.
2. Pouliopoulos J. Intramyocardial Adiposity in Post-Infarct Cardiomyopathy: Sudden Cardiac Death. 10th Asia-Pacific Heart Rhythm Scientific Session, 15th Sept 2017, Yokohama, Japan.
3. Pouliopoulos J. Intramyocardial Adiposity in Arrhythmogenic Post-Infarct Cardiomyopathy: What do we know, and where do we go from here? 9th Asia-Pacific Heart Rhythm Scientific Session, Oct 20th 2016, Seoul, Korea
4. Pouliopoulos J. Intramyocardial Adiposity: A new substrate for Ventricular Arrhythmias. 8th Asia-Pacific Heart Rhythm Scientific Session, Oct 20th 2015, Melbourne, Australia.
5. Pouliopoulos J. Intramyocardial Adiposity: New Substrate for Ventricular Arrhythmia. 7th Asia-Pacific Heart Rhythm Scientific Session, Oct 30th 2014, New Delhi, India.

### Publications:

1. Morellato J, Chik W, Barry M.A, Lu J, Thiagalingam A, Thomas S, Kovoor P, **Pouliopoulos J**. Quantitative Spectral Assessment of Intracardiac Electrogram Characteristics Associated with Post Infarct Fibrosis and Ventricular Tachycardia. PlosOne, 2017. (in press). [IF=3.05]
2. Samanta R, Kumar S, Chik W, Bhaskaran A, Farraha M, Qian P, Nadri F, Kizana E, Al Raisi S, Barry M.A, Thiagalingam A, Kovoor P., **Pouliopoulos J**. Influence of intramyocardial adipose tissue on the accuracy of endocardial contact mapping of the chronic myocardial infarction substrate. Circ. Arrhythm. Electrophysiol. 2017 [IF=6.5]

3. Al Raisi SI, Barry MT, Qian P, Bhaskaran A, **Pouliopoulos J**, Kovoor P. Comparison of new generation renal artery denervation systems: Assessing lesion size and thermodynamics using a thermochromic liquid crystal phantom model. *Eurointervention*. 2017 [IF=5.2]
4. Qian PC, Barry MA, Al-Raisi S, Kovoor P, **Pouliopoulos J**, Nalliah C, Bhaskaram A, Chik W, Kurup R, James V, Varikatt W, McEwan A, Thiagalingam A, Thomas SP. Transcatheter non-contact microwave ablation may enable circumferential renal artery denervation while sparing the vessel intima and media. *Eurointervention*. 2016 Dec 6 [Epub ahead of print] [IF=3.3]
5. Bhaskaran A, Nalliah C, Chik W, **Pouliopoulos J**, Ng J, Barry MA, Nadri F, Raisi SA, Dandach J, Thomas S, Kovoor P, Thiagalingam A. Ninety Seconds Could be the Optimal Duration for Ventricular Radiofrequency Ablation – Results From a Myocardial Phantom Model. *Heart Lung and Circulation*. 2017 Mar; 26(3):219-225. [IF=1.6]
6. Bhaskaran A, Chik W, **Pouliopoulos J**, Nalliah C, Qian P, Barry T, Nadri F, Samanta R, Tran Y, Thomas S, Kovoor P, Thiagalingam A. Five seconds of 50-60W radiofrequency atrial ablations were transmural and safe: an in vitro mechanistic assessment and force-controlled in vivo validation. *Europace*. 20 May 2016, [IF=3.1]
7. Samanta R, **Pouliopoulos J**, Thiagalingam A, Kovoor P. Role of adipose tissue in the pathogenesis of cardiac arrhythmias. *Heart Rhythm* 2016, 13(1)311-20.
8. Bhaskaran A, Chik W, Nalliah C, **Pouliopoulos J**, Barry T, Nguyen DT, Midekin C, Samanta R, Farraha M, Thomas S, Kovoor P, Thiagalingam A. Observations on Attenuation of Local Electrogram Amplitude and Circuit Impedance During Atrial Radiofrequency Ablation: An In vivo Investigation Using a Novel Direct Endocardial Visualization Catheter. *J. Cardiovasc. Electriogysiol* 2015, 44(1):1-8. [IF=2.958]
9. Bhaskaran A, Barry T, Al Raisi S, Chik W, Nguyen D.T, **Pouliopoulos J**, Nalliah C, Hendricks R, Thomas S, Mc Ewan A, Kovoor P, Thiagalingam A. Magnetic guidance versus manual control: comparison of radiofrequency lesion dimensions and evaluation of the effect of heart wall motion in a myocardial phantom. *J. Cardiovasc. Electrophysiol*. 2015 (In Press).[IF=2.958]
10. Nguyen DT1, Bhaskaran A, Chik W, Barry MA, **Pouliopoulos J**, Kosobrodov R, Jin C, Oh TI, Thiagalingam A, McEwan AL. Perfusion redistribution after a pulmonary-embolism-like event with contrast enhanced EIT. *Physiol Meas*. 2015 Jun;36(6):1297-309. 2015 May. [IF=1.808, C=1]
11. Nguyen DT, Thiagalingam A, Bhaskaran A, Barry MA, **Pouliopoulos J**, Jin C, McEwan AL. Electrical impedance tomography for assessing ventilation/perfusion mismatch for pulmonary embolism detection without interruptions in respiration. *Conf Proc IEEE Eng Med Biol Soc*. 2014.
12. Farraha M, Nguyen DT, Barry MA, Lu J, McEwan AL, **Pouliopoulos J**. Investigating the utility of in vivo bio-impedance spectroscopy for the assessment of post-ischemic myocardial tissue. *Conf Proc IEEE Eng. Med Biol Soc*. 2014 Aug. [IF=5.466]
13. Chik WW, Kosobrodov R, Bhaskaran A, Barry MA, Nguyen DT, **Pouliopoulos J**, Byth K, Sivagangabalan G, Thomas SP, Ross DL, McEwan A, Kovoor P, Thiagalingam A. Acoustic Signal Emission Monitoring as a Novel Method to Predict Steam Pops During Radiofrequency Ablation: Preliminary Observations. *J. Cardiovasc. Electrophysiol*. 2014 Dec 16. [IF=2.958]
14. **Pouliopoulos J**, Chik W, Byth K, Wallace E, Kovoor P, Thiagalingam A. Spatial Characterization of Electrogram Morphology from Transmural Recordings in the Intact Normal Heart. *PloS One*. 2014 Oct 31;9(10) [IF=3.05]
15. Chik W; Barry M; Pouliopoulos J; Byth K; Midekin C; Bhaskaran A; Sivagangabalan G; Ross D; McEwan A; Thomas S; Kovoor P: Electrogram Gated Radiofrequency Ablations with Duty Cycle Power Delivery Negates Effects of Ablation Catheter Motion. *Circulation: Arrhythmia and Electrophysiology*. 2014 Oct;7(5):920-8 [IF = 6.5, C=2]
16. Al Raisi SI; Pouliopoulos J; Barry MT; Swinnen J; Thiagalingam A; Thomas SP; Sivagangabalan G; Chow C; Chong J; Kizana E; Kovoor P: Evaluation of lesion and thermodynamic characteristics of Simplicity and EnligHTN renal denervation systems in a phantom renal artery model. *Eurointervention*. 2014 Jun 20;10(2):277-84. [IF=3.769, C=4]
17. **Pouliopoulos J**; Chik WW; Kanthan A; Sivagangabalan G; Barry MA; Fahmy PN; Midekin C; Lu J; Kizana E; Thomas SP; Thiagalingam A; Kovoor P: Intramyocardial Adiposity After Myocardial

- Infarction: New Implications of a Substrate for Ventricular Tachycardia. *Circulation*. 2013 Nov 19;128(21):2296-308. [IF=15.3, C=10, *Premiere Cardiology Journal*]
18. Zaman S; **Pouliopoulos J**; Al Raisi S; Sullivan J; Thiagalingam A; Swinnen J; Kovoor P: Novel use of NavX 3-Dimensional Mapping to Guide Renal Artery Denervation. *EuroIntervention*. 2013 Oct 22;9(6):687-93. [IF = 3.758, C=3]
  19. Hsieh CH; Chia EM; Huang K; Lu J; Barry M; **Pouliopoulos J**; Ross DL; Thomas SP; Kovoor P: "Primary radiofrequency ablation of ventricular tachycardia after myocardial infarction: evaluation in an ovine model. *Circ. Arrhythm. Electrophysiol.* Oct. 18, 2013. [IF = 6.5, highest for an electrophysiology journal, C=1]
  20. Hsieh CH; Chia EM; Huang K; Lu J; Barry M; **Pouliopoulos J**; Ross DL; Thomas SP; Kovoor P: Evolution of Ventricular Tachycardia and Its Electrophysiological Substrate Early after Myocardial Infarction: An Ovine Model. *Circ Arrhythm Electrophysiol.* 2013 Oct 1;6(5):1010-7. [IF = 6.5, highest for an electrophysiology journal, C=7]
  21. Chik W.B; Barry, M; Thavapalachandran, S; **Pouliopoulos, J**; Lim, T; Sivagangabalan, G; Thomas, S; Ross, D.L; McEwan, A; Kovoor, P; Thiagalingam, A: High Spatial Resolution Thernal Mapping of Radiofrequency Ablation Lesions Using a Novel Thermochromic Liquid Crystal Myocardial Phantom.. *J. Cardiovasc. Electrophysiol.* Accepted 06-May-2013. [IF=2.958, C=4]
  22. Chik W.B; Barry M.A; Huang K; Lu J; Thavapalachandran S; **Pouliopoulos J**; Saadat V; Robinson D; Malchano Z; Wylie B; Thomas S.P; Ross D.L; Kovoor P; Thiagalingam A: In Vivo Evaluation of Virtual Electrode Mapping and Ablation Utilizing a Direct Endocardial Visualisation Ablation Catheter. *J. Cardiovasc. Electrophysiol.* 2012 Jan;23(1):88-95. [IF=2.958, C=5]
  23. Ganesan AN, Wu G, **Pouliopoulos J**, Barry MA, Thomas SP: "Evaluation of Noncontact Mapping by Comparison With Simultaneous Multisite Contact Recordings in Acute Ischemic Ventricular Fibrillation". *J. Cardiovasc. Electrophysiol.* Sep. 2010. [IF=2.958]
  24. Sivagangabalan G, Barry MA, Huang K, Lu J, **Pouliopoulos J**, Thomas SP, Ross DL, Thiagalingam A, Kovoor P: "Bipolar ablation of the interventricular septum is more efficient at creating a transmural line than sequential unipolar ablation". *Pacing Clin. Electrophysiol.* 2010 Jan;33(1):16-26. [IF=1.129, C=21]
  25. **Pouliopoulos J**, Sivagangabalan G, Barry MA, Thiagalingam A, Huang K, Lu J, Byth K, Kovoor P. "Revised non-contact mapping of ventricular scar in a post-infarct ovine model with validation using contact mapping and histology". *Europace*. 2010 Jun;12(6):881-9. [IF=3.1, leading European electrophysiology journal, C=3].
  26. Sivagangabalan G, **Pouliopoulos J**, Huang K, Barry MA, Lu J, Thomas SP, Ross DL, Thiagalingam A, Kovoor P. "Simultaneous biventricular noncontact mapping and ablation of septal ventricular tachycardia in a chronic ovine infarct model". *Circ. Arrhythm. Electrophysiol.* 2009 Aug;2(4):441-9. [IF = 6.5, C=8]
  27. Sivagangabalan G, **Pouliopoulos J**, Huang K, Barry MA, Lu J, Thomas SP, Ross DL, Thiagalingam A, Kovoor P. "Comparison of electroanatomic contact and noncontact mapping of ventricular scar in a postinfarct ovine model with intramural needle electrode recording and histological validation". *Circ. Arrhythm. Electrophysiol.* 2008 Dec; 1(5):363-9. [IF = 6.5, C=20]
  28. **Pouliopoulos J**, Thiagalingam A, Eipper VE, Campbell C, Ross DL, Kovoor P. "Transmural mapping of myocardial refractoriness and endocardial dispersion of repolarization in an ovine model of chronic myocardial infarction". *Pacing Clin. Electrophysiol.* 2009 Jul;32(7):851-61. [IF=1.129, C=7]
  29. Kovoor P, Daly M, **Pouliopoulos J**, Eipper V, Dewsnap B, Ross DL. "Comparison of unipolar versus bipolar ablation and single electrode versus simultaneous multielectrode temperature control". *J. Interv. Card. Electrophysiol.* 2007 Aug;19(2):85-93. [IF=2.958, C=5]
  30. Vickery K, Tohidi-Esfahini R, **Pouliopoulos J**, Weslchinger R, Dixon R, Deva A, Cossart Y: "The effect of surgical immunomodulation on liver inflammation and clearance of DHBV infection." *J. Med. Virol.* 2006 Dec;78(12):1572-8. [IF = 2.347]
  31. Weslchinger R, Cossart Y, **Pouliopoulos J**, Dixon R, Vickery K: "identification of T-cell epitopes associated with immunity within the surface protein of duck hepatitis B virus." *J. Vir. Hepat.* 2006 Aug;13(8):515-22. [IF = 3.909]

32. Thyer IA, Kovoor P, Barry MA, **Pouliopoulos J**, Ross DL, Thiagalingam A; "Protection of the coronary arteries during epicardial radiofrequency ablation with intracoronary chilled saline irrigation: assessment in an in vitro model." *J. Cardiovasc. Electrophysiol.* 2006 May;17(5):544-9. [IF=2.958, C=13]
33. Kovoor P, Daly MP, **Pouliopoulos J**, Byth K, Dewsnap BI, Eipper VE, Yung T, Uther JF, Ross DL; "Comparison of radiofrequency ablation in normal versus scarred myocardium." *J. Cardiovasc. Electrophysiol.* 2006 Jan;17(1):80-6. [IF=2.958, C=10]
34. Thiagalingam A, **Pouliopoulos J**, Barry MA, Boyd AC, Eipper VE, Yung T, Maclean F, Ross DL, Kovoor P; "Automated ventricular substrate mapping – evaluation in an ovine chronic myocardial infarction model". *Pacing Clin. Electrophysiol.* 2005 Oct; 28(10):1088-97. [IF = 1.129, C=2]
35. Thiagalingam A, **Pouliopoulos J**, Barry MA, Salisbury E, Pathmanathan N, Boyd A, Ross DL, Kovoor P; "A thermochromic dispersive electrode can measure the underlying skin temperature and prevent burns during radiofrequency ablation". *J. Cardiovasc. Electrophysiol.* 2005 Jul;16(7):781-8. [IF=2.958, C=11]
36. Kovoor P., Daly M., **Pouliopoulos J.**, Dewsnap M.B., Eipper V., Ross DL: "Effect of inter-electrode distance on bipolar intramural radiofrequency ablation". *Pacing Clin. Electrophysiol.* 2005 Jun;28(6):514-20 [IF = 1.129, C=4]
37. Thiagalingam A., **Pouliopoulos J.**, Barry M.A., Boyd A.C., Eipper V., Yung T., Ross DL., Kovoor P.: "Cooled needle catheter ablation creates deeper and wider lesions than irrigated tip catheter ablation". *J Cardiovasc. Electriophysiol.* 2005 May;16(5):508-15. [IF=2.958, C=23]

#### Book Chapters:

1. **Pouliopoulos J.**, Welshinger R., Deva A., Dixon R., Cossart YE., Vickery K.: "The Effect of Bursectomy and Thymectomy on DHBV infection. In: Ed Jilbert A., Grgacic E., Vickery K., Burrell C., Cossart YE., Proceedings 11th International Symposium on Viral Hepatitis and Liver Disease. Sydney, Australia, 2003. Published in: Jilbert A, Grgacic E, Vickery K, Burrell C, Cossart YE. (2004) *Viral Hepatitis and Liver Disease*. Sydney, Australia. Pub: Australian Centre for Hepatitis Virology, Melbourne, Australia. pp 344-346. ISBN 1877040266

#### Patents:

1. APPLICATION #2017900356: "Methods and apparatuses for monitoring cardiac dysfunction". Jim Pouliopoulos, Pramesh Kovoor, Tony Barry. Western Sydney Local Health District (2017).

#### Refereed Conference Papers, Proceedings and Presentations

1. Pouliopoulos J. Intramyocardial Adiposity in Post-Infarct Cardiomyopathy: Sudden Cardiac Death: Novel or Alternative Approach in Diagnosis and Therapy. 10th Asia-Pacific Heart Rhythm Scientific Session, 14-17th September 2017, Yokahama, Japan. [Invited Presentation]
2. Samanta R., Pouliopoulos J. The use of unipolar endocardial contact mapping to detect the presence of intramyocardial adipose tissue in the chronic myocardial infarction substrate.
3. Pierre Q., Chik W., Barry M.A., Kovoor P., Thiagalingam A., Pouliopoulos J. Identification of regional subendocardial and subepicardial conduction in ischemic scar: insight from transmural plunge needle mapping. 10th Asia-Pacific Heart Rhythm Scientific Session, 14-17th September 2017, Yokahama, Japan [Senior Author]
4. Pouliopoulos J., Zecchin R., Chik W., Thiagalingam A., Kovoor P, Dennis A.R. Electrical restitution assessment during exercise for non-invasive risk stratification of ventricular tachycardia early after myocardial infarction – A preliminary investigation. *Heart Rhythm*, 38th Annual Scientific Sessions, 10-13th May 2017, Chicago, Ill, USA.
5. Pouliopoulos J. Intramyocardial Adiposity in Arrhythmogenic Post-Infarct Cariomyopathy: What do we know, and where do we go from here? 9th Asia-Pacific Heart Rhythm Scientific Session, 12-15TH Oct 20th 2016, Seoul, Korea [Invited Presentation]
6. Pouliopoulos J., Zecchin R., Chik W., Thiagalingam A., Kovoor P., Denniss R. Utility of electrical restitution assessment during exercise stress testing for non-invasive risk stratification of

- ventricular tachycardia propensity early after myocardial infarction – A preliminary investigation. 64th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand 4-7th August 2016, Adelaide, Australia.
7. Samanta R., Chik W., Bhaskaran A., Farraha M., Kovoor P., Thiagalingam A., Pouliopoulos J. Influence of adipose and collagen on the electrophysiological characteristics of the scar border zone in the ovine model of chronic myocardial infarction. Heart Rhythm 37th Annual Scientific Sessions, 4-7th May 2016, San Francisco, CA. [Senior Author]
  8. Pouliopoulos J. Intramyocardial Adiposity: A new substrate for Ventricular Arrhythmias. 8th Asia-Pacific Heart Rhythm Scientific Session, Oct 20th 2015, Melbourne, Australia. [Invited Presentation]
  9. Samanta R., Bhaskaran A., Farraha M., Chik W., Barry M.A., Lu J., Thiagalingam A., Kovoor P., Pouliopoulos J. Influence of intramyocardial adipose tissue on the accuracy of electroanatomical voltage mapping in the ovine model of chronic myocardial infarction. 8th Asia-Pacific Heart Rhythm Scientific Session, Oct 21st 2015, Melbourne, Australia [Senior Author]
  10. Samanta R., Chik W., Barry M.A., Al Raisi S., Farraha M., Lu J., Kovoor P., Thiagalingam A., Kizana E., Pouliopoulos J. The heterogeneous composition of post-infarct ventricular scar is a critical factor compared to local myocardial volume in influencing the accuracy of electroanatomical voltage mapping. 63rd Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Melbourne Australia, 13–16th August 2015. Heart, Lung and Circulation; Vol. 24. S225 [Senior Author]
  11. Pouliopoulos J. Intramyocardial Adiposity: New Substrate for Ventricular Arrhythmia. 7th Asia-Pacific Heart Rhythm Scientific Session, Oct 30th 2014, New Delhi, India. [Invited Presentation]
  12. Ferraha M., Nguyen T., Barry M.A., Lu J., McEwan A., Pouliopoulos J: Development and Optimisation of Electrical Impedance Spectroscopy for in vivo Assessment of the Myocardial Post-Ischemic Micro-Environment. Australian Biomedical Engineering Conference, Sydney, Australia [First Prize Best Poster Award, NHP Prize in Electronic Engineering], 2013 [Senior Author]
  13. Pouliopoulos J., Chik W., Kanthan A., Sivagangabalan G., Barry MA; Midekin C., Lu J., Kizana E., Thomas S.P., Thiagalingam A., Kovoor P: Intramyocardial Adiposity of Left Ventricular (LV) Scar Borders Post-Infarction Contributes to Greater Ventricular Tachycardia Susceptibility than Collagen. 61st Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Gold Coast Australia 8-11th August 2013. Heart, Lung and Circulation Vol. 22Supplement 1, Page S2 [Ralph Reader Prize Presentation]
  14. Pouliopoulos J., Chik W., Kanthan A., Sivagangabalan G., Barry MA., Midekin C., Lu J., Kizana E., Thomas S., Thiagalingam A., Kovoor P: "Intra-myocardial adiposity within established scar borders increases ventricular tachycardia susceptibility in an ovine model". Featured Posters Presentation Heart Rhythm Society 34th Annual Conference, Denver CO, USA, May 8-11, 2013.
  15. Pouliopoulos J., Chik W., Sivagangabalan G., Huang K., Barry M.A., Lu J., Midekin C; Thomas S.P., Thiagalingam A., Kovoor P: New insights into the electrophysiological significance of lipomatous metaplasia post-myocardial infarction. Oral Presentation, 59th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Perth Australia, 11 – 14th August 2011. Heart, Lung and Circulation; 20S:S1-S155, 2011.
  16. Pouliopoulos J., Chik W., Sivagangabalan G., Huang K., Barry M.A., Lu J., Byth K., Thomas S.P., Thiagalingam A., Kovoor P: New insights into the electrophysiological impact of lipomatous metaplasia post-myocardial infarction. Featured Posters Presentation. Heart Rhythm Society 32nd Annual Conference, San Francisco, CA, USA, May 4-7, 2011.
  17. Pouliopoulos J, Sivagangabalan G, Chik W, Huang K, Lu J, Byth K, Thiagalingam A, Kovoor P. "The Role of Restitution Profile in determining Ventricular Tachycardia Propensity Post Myocardial Infarction" Oral Presentation, 58th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Adelaide Australia, 5 – 8th August 2010. Heart, Lung and Circulation Vol. 19Supplement 2, Page S113
  18. Pouliopoulos J, Chik W, Byth K, Kovoor P, Thiagalingam A."Influence of Transmurality and Pacing Location on Bipolar and Unipolar Electrogram Characteristics". Poster Presentation, 58th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Adelaide Australia, 5 – 8th August 2010. Heart, Lung and Circulation Vol. 19Supplement 2, Page S106

19. Pouliopoulos J, Chik W, Byth K, Kovoor P, Thiagalingam A. "Effects of Transmurality and Pacing Location on Electrogram Characteristics". Poster presentation, Heart Rhythm Society 31st Annual Conference, Denver, Colorado, USA, May 12-15, 2010.
20. Pouliopoulos J, Sivagangabalan G, Huang K, Barry M.A, Lu J, Byth K, Thiagalingam A, Kovoor P. "Restitution Portrait Independent of Scar is Associated with Ventricular Tachycardia Propensity Post Myocardial Infarction". Poster presentation, Heart Rhythm Society 31st Annual Conference, Denver, Colorado, USA, May 12-15, 2010.
21. Pouliopoulos J, Morrelato J, Hsieh C, Chik W, Sivagangabalan G, Huang K, Barry M.A, Lu J, Thiagalingam A, Kovoor P. "Identification of Ventricular Scar using Spectral Frequency Mapping in an Ovine Model", Poster presentation, Heart Rhythm Society 31st Annual Conference, Denver, Colorado, USA, May 12-15, 2010.
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29. Pouliopoulos J, Sivagangabalan G, Barry MA, Eipper V, Liu J, Mikhail M, Kovoor P. "Intramural Septal Activation Mapping using Biventricular Noncontact Mapping in an Ovine Normal Heart Model", Poster Presentation, 55th Annual Scientific Meeting of the Cardiac Society of Australia and New Zealand, Christchurch, New Zealand, 9th – 12th August 2007; Heart, Lung and Circulation 2007;16(Supplement 2):S117.
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34. Pouliopoulos J., Dixon R., Vickery, K.: "DHBV infectivity and persistence in bursectomised ducks". Australian Centre for Hepatitis Virology., National Scientific Workshop, Sydney. Date: 30th March – 1st April 2001. Presentation. (Oral)
35. Pouliopoulos J., Vickery K.: "A preliminary approach to identify the region responsible for a CMI response in ducks to DHBV by peptide scanning and semi-empirical antigenicity modeling of the DHBV preS antigen". The Molecular Biology of Hepatitis B Viruses. Annual meeting, Paris. Date: 17-21st September 2000. Presentation. (Poster)

#### **Industry Related Presentations**

1. Koovoor P and Pouliopoulos J. "Radiofrequency ablation of VT (storm) using Stereotaxis". Oral co-presentation: Medtronic 13th Annual Electrophysiology and Pacing Meeting 3-5 August 2010. Links Lady Bay, Fleurieu Peninsula, South Australia.
2. Kovoor P and Pouliopoulos J. "Technical Mapping of Ventricular Tachycardia – Background and Theory". Oral co-presentation: 2010 Ensite Physicians Symposium, held on 29th May, St Jude Medical Education Facility, Sydney.
3. Pouliopoulos J, Sivagangabalan G, Kovoor P. "Clinical Case Report: Radiofrequency Ablation of Ventricular Tachycardia Originating from the Right Ventricle – Using Dual Array Noncontact Mapping". Oral Presentation. Medtronic 11th EP and Pacing Meeting, Barossa Valley, Adelaide, Australia, 6th – 7th August 2008.
4. Pouliopoulos J, Sivagangabalan G, Kovoor P. "Clinical Case Report: Radiofrequency Ablation of Idiopathic Right Ventricular Tachycardia – Guided using Contact and Noncontact Mapping". Oral Presentation. St Jude Medical EP Symposium, Napa Valley, California USA, 11th – 13th May 2008.
5. Pouliopoulos J, Sadick N, Kovoor P. "Clinical Case Report: Noncontact Mapping of Ventricular Tachycardia in a Patient with Normal Coronary Arteries". Oral Presentation. St Jude Medical EP Symposium, Darling Harbour, Sydney, Australia, 2nd - 4th March 2007.