Stanford



Rajesh Dash, MD PhD; Director of SSATHI & CardioClick

Associate Professor of Medicine (Cardiovascular Medicine)

Medicine - Cardiovascular Medicine

CLINICAL OFFICE (PRIMARY)

- **Stanford Cardiovascular Clinic**
  300 Pasteur Dr
  MC 5687
  Stanford, CA 94305
  Tel (650) 723-6459 **Fax** (650) 723-8392

ACADEMIC CONTACT INFORMATION

- **Alternate Contact**
  Sonia Amador - Administrative Associate
  Email amador52@stanford.edu
  Tel 650-721-8403

Bio

CLINICAL FOCUS

- South Asian Cardiovascular Risk
- Cardiovascular Medicine
- Cardiovascular Disease

ACADEMIC APPOINTMENTS

- Associate Prof-Univ Med Line, Medicine - Cardiovascular Medicine
- Member, Bio-X
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Co-Director, Falk Cardiovascular MRI Facility, (2011- present)
- Medical & Scientific Director, Stanford South Asian Translational Heart Initiative (SSATHI), (2013- present)

HONORS AND AWARDS

- Chief Cardiology Fellow, UCSF Medical Center (2006-2007)
- Finalist, Young Investigators Award, American Heart Association (2008)
- Recipient, Frances & John Bowes Cardiovascular Research Fellowship, UCSF Medical Center (2008-2009)
- Finalist, Young Investigator Award, Society for Cardiovascular Magnetic Resonance (2009)
- Winner, Melvin Judkins Young Investigator Award, American Heart Association (2010)
- Finalist, Young Investigator Award, Basic Science, Northwestern Cardiovascular Forum (2012)
- Winner, Best Poster Award, ACC Scientific Sessions (2013)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Board member, Clint (2017 - present)

PROFESSIONAL EDUCATION

- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2019)
- Board Certification: Adult Echocardiography, National Board of Echocardiography (2023)
- Fellowship: UCSF Dept of Cardiology (2009) CA
- Residency: University of Washington Medical Center Dept of Medicine (2005) WA
- Internship: University of Washington Medical Center Dept of Medicine (2003) WA
- Medical Education: University of Cincinnati College of Medicine (2002) OH
- Board Certification, Echocardiography , National Board of Echocardiography (2009)
- PhD, University of Cincinnati MSTP , Pharmacology & Cell Biophysics (2001)
- BS, Stanford University , Biological Sciences (1995)

LINKS

- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

1) Heart disease in South Asians - genetic, metabolic, & behavioral underpinnings of an aggressive phenotype. Leveraging digital health to optimize lifestyle changes. I founded a preventive cardiology clinic dedicated to treating South Asian patients who have a 4x risk of early heart disease and heart-related events. The clinic, SSATHI, is a clinical and research program that tracks patient performance and utilizes a multidisciplinary strategy to lower risk levels in these high-risk patients.

2) Imaging cell injury & recovery in the heart. Designing molecular probes that track to injured heart cells where cardiac MRI can visualize signals of early cardiac injury and facilitate preventive medical therapy. I have also optimized a new imaging method for viable cells, manganese-enhanced MRI, to delineate live heart cells or transplanted stem cells. A third area of imaging research surrounds the impact of hypothermia on preservation of heart tissue after myocardial infarction, where cooling the heart and body to 5-6 degrees cooler than average protects up to 90% of at-risk heart muscle from dying.

CLINICAL TRIALS

- PARTNER 3 Trial: Safety and Effectiveness of the SAPIEN 3 Transcatheter Heart Valve in Low Risk Patients With Aortic Stenosis, Recruiting
- Cardiovascular Outcomes Assessment of the MitraClip Percutaneous Therapy for Heart Failure Patients With Functional Mitral Regurgitation (The COAPT Trial) and COAPT CAS, Not Recruiting
- Early MRI Detection of Myocardial Deterioration as a Preventive, Disease Staging, and Prognostic Biomarker in Insulin Resistance, Not Recruiting
- Impact of Plant Sterol Supplement on LDL-C Lowering in Low-to-Moderate Risk South Asian Patients, Not Recruiting
- PARTNER II Trial: Placement of AoRTic TraNscathetER Valves II - XT Intermediate and High Risk, Not Recruiting
- PARTNER II Trial: S3iCAP, Not Recruiting
- The PARTNER II Trial: Placement of AoRTic TraNscathetER Valves - PII B, Not Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cardiovascular Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Wideband radiofrequency pulse sequence for evaluation of myocardial scar in patients with cardiac implantable devices** *FRONTIERS IN RADIOLOGY*
  Shah, N. D., Krishnam, M., Venkatesh, B., Khan, F., Smith, M., Jones, D. R., Koon, P., Mao, X., Janich, M. A., Brau, A. C. S., Salerno, M., Dash, R., Chan, et al
  2024; 4: 1327406

- **Drivers of telemedicine in primary care clinics at a large academic medical centre.** *Journal of telemedicine and telecare*
  Parameswaran, V., Koos, H., Kalwani, N., Qureshi, L., Rosengaus, L., Dash, R., Scheinker, D., Rodriguez, F., Johnson, C. B., Stange, K., Aron, D., Lyytinen, K., Sharp, et al
  2023: 1357633X231219311

- **Sociodemographic disparities in the use of cardiovascular ambulatory care and telemedicine during the COVID-19 pandemic.** *American heart journal*
  Osmanlliu, E., Kalwani, N. M., Parameswaran, V., Qureshi, L., Dash, R., Scheinker, D., Rodriguez, F.
  2023

- **Clinical programs for cardiometabolic health for South Asian patients in the United States: A review of key program components.** *Health sciences review (Oxford, England)*
  Gulati, R. K., Husaini, M., Dash, R., Patel, J., Shah, N. S.
  2023; 7

- **Underutilization Of Guideline-directed Genetic Testing In Cardiomyopathies: A Missed Opportunity**
  Longoni, M., Ward, A., Bhasin, K., Lee, D., Bhatt, S., Rodriguez, F., Dash, R.
  CHURCHILL LIVINGSTONE INC MEDICAL PUBLISHERS.2023: 704-705

- **PERSISTENT SOCIODEMOGRAPHIC DISPARITIES IN CARDIOVASCULAR TELEMEDICINE USE DURING THE COVID-19 PANDEMIC**
  Kalwani, N., Osmanlliu, E., Parameswaran, V., Qureshi, L., Dash, R., Scheinker, D., Rodriguez, F.
  ELSEVIER SCIENCE INC.2023: 2287

- **Sociodemographic determinants of oral anticoagulant prescription in patients with atrial fibrillations: findings from the PINNACLE registry using machine learning.** *Heart rhythm O2*
  Azizi, Z., Ward, A. T., Lee, D. J., Gad, S. S., Bhasin, K., Beetel, R. J., Ferreira, T., Shankar, S., Rumsfeld, J. S., Harrington, R. A., Virani, S. S., Gluckman, T. J., Dash, et al
  2023; 4 (3): 158-168

- **Real-world utilization of guideline-directed genetic testing in inherited cardiovascular diseases.** *Frontiers in cardiovascular medicine*
  Longoni, M., Bhasin, K., Ward, A., Lee, D., Nisson, M., Bhatt, S., Rodriguez, F., Dash, R.
  2023; 10: 1272433

- **Pandemic-proof recruitment and engagement in a fully decentralized trial in atrial fibrillation patients (DeTAP).** *NPJ digital medicine*
  Sarraju, A., Seninger, C., Parameswaran, V., Petlura, C., Bazouzi, T., Josan, K., Grewal, U., Viethen, T., Mundl, H., Luithle, J., Basobas, L., Touros, A., Senior, et al
  2022; 5 (1): 80

- **DRIVERS OF VARIATION IN TELEMEDICINE USE AT AN ACADEMIC CARDIOVASCULAR CENTER DURING THE COVID-19 PANDEMIC**
  Koos, H., Parameswaran, V., Claire, S., Chen, C., Kalwani, N., Osmanlliu, E., Dash, R., Scheinker, D., Rodriguez, F.
  ELSEVIER SCIENCE INC.2022: 2046

- **Changes in telemedicine use and ambulatory visit volumes at a multispecialty cardiovascular center during the COVID-19 pandemic.** *Journal of telemedicine and telecare*
  Kalwani, N. M., Osmanlliu, E., Parameswaran, V., Qureshi, L., Dash, R., Heidenreich, P. A., Scheinker, D., Rodriguez, F.
  1800: 1357633X211073428

- **COVID-19 is associated with higher risk of venous thrombosis, but not arterial thrombosis, compared with influenza: Insights from a large US cohort.** *PloS one*
  Ward, A., Sarraju, A., Lee, D., Bhasin, K., Gad, S., Beetel, R., Chang, S., Bonafede, M., Rodriguez, F., Dash, R.

2022; 17 (1): e0261786

- **Validation of a pandemic-proof, decentralized cardiovascular trial: scalable design produces rapid recruitment, high engagement and protocol adherence in DeTAP (Decentralized Trial in Afib Patients)**
  Josan, K., Touros, A., Petlura, C., Parameswaran, V., Grewal, U., Senior, M., Viethen, T., Mundl, H., Seninger, C., Luithle, J., Mahaffey, K., Turakhia, M., Dash, et al
  OXFORD UNIV PRESS.2021: 3177

- **Initial Outcomes of CardioClick, a Telehealth Program for Preventive Cardiac Care: Observational Study.** *JMIR cardio*
  Kalwani, N. M., Johnson, A. N., Parameswaran, V., Dash, R., Rodriguez, F.
  2021; 5 (2): e28246

- **Ferumoxytol-enhanced cardiovascular magnetic resonance detection of early stage acute myocarditis.** *Journal of cardiovascular magnetic resonance : official journal of the Society for Cardiovascular Magnetic Resonance*
  Tada, Y., Tachibana, A., Heidary, S., Yang, P. C., McConnell, M. V., Dash, R.
  2019; 21 (1): 77

- **Efficacy of a Telehealth Preventive Cardiology Lifestyle Intervention Program to Treat High-Risk South Asians**
  Parameswaran, V., Josan, K., Khandelwal, A., Abbasi, F., Dash, R.
  AMER DIABETES ASSOC.2019

- **Myocardial viability of the peri-infarct region measured by T1 mapping post manganese-enhanced MRI correlates with LV dysfunction.** *International journal of cardiology*
  Tada, Y., Heidary, S., Tachibana, A., Zaman, J., Neofytou, E., Dash, R., Wu, J. C., Yang, P. C.
  2019

- **Defining genotype-phenotype relationships in patients with hypertrophic cardiomyopathy using cardiovascular magnetic resonance imaging.** *PloS one*
  Miller, R. J., Heidary, S. n., Pavlovic, A. n., Schlachter, A. n., Dash, R. n., Fleischmann, D. n., Ashley, E. A., Wheeler, M. T., Yang, P. C.
  2019; 14 (6): e0217612

- **CardioClick an Innovative Telehealth Approach to Lifestyle Intervention in High Risk South Asians**
  Parameswaran, V., Josan, K., Winterbottom, J., Shearer, J., Khandelwal, A., Nallamshetty, S., Dash, R., Rodriguez, F.
  LIPPINCOTT WILLIAMS & WILKINS.2019

- **Index of Microcirculatory Resistance and Infarct Size.** *JACC. Cardiovascular imaging*
  Fearon, W. F., Dash, R.
  2018

- **Dose-Dependent Cardioprotection of Moderate (32°C) Versus Mild (35°C) Therapeutic Hypothermia in Porcine Acute Myocardial Infarction.** *JACC. Cardiovascular interventions*
  Dash, R. n., Mitsutake, Y. n., Pyun, W. B., Dawoud, F. n., Lyons, J. n., Tachibana, A. n., Yahagi, K. n., Matsuura, Y. n., Kolodgie, F. D., Virmani, R. n., McConnell, M. V., Illindala, U. n., Ikeno, et al
  2018; 11 (2): 195–205

- **An Alpha-1A Adrenergic Receptor Agonist Prevents Acute Doxorubicin Cardiomyopathy in Male Mice** *PLOS ONE*
  Montgomery, M. D., Chan, T., Swigart, P. M., Myagmar, B., Dash, R., Simpson, P. C.
  2017; 12 (1)

- **Manganese-Enhanced Magnetic Resonance Imaging Enables In Vivo Confirmation of Peri-Infarct Restoration Following Stem Cell Therapy in a Porcine Ischemia-Reperfusion Model.** *Journal of the American Heart Association*
  Dash, R., Kim, P. J., Matsuura, Y., Ikeno, F., Metzler, S., Huang, N. F., Lyons, J. K., Nguyen, P. K., Ge, X., Foo, C. W., McConnell, M. V., Wu, J. C., Yeung, et al
  2015; 4 (7)

- **Synthesis of an in vivo MRI-detectable apoptosis probe.** *Journal of visualized experiments : JoVE*
  Lam, J., Simpson, P. C., Yang, P. C., Dash, R.
  2012

- **A Molecular MRI Probe to Detect Treatment of Cardiac Apoptosis In Vivo** *MAGNETIC RESONANCE IN MEDICINE*
  Dash, R., Chung, J., Chan, T., Yamada, M., Barral, J., Nishimura, D., Yang, P. C., Simpson, P. C.

2011; 66 (4): 1152-1162

- **Dual Manganese-Enhanced and Delayed Gadolinium-Enhanced MRI Detects Myocardial Border Zone Injury in a Pig Ischemia-Reperfusion Model** *CIRCULATION-CARDIOVASCULAR IMAGING*
  Dash, R., Chung, J., Ikeno, F., Hahn-Windgassen, A., Matsuura, Y., Bennett, M. V., Lyons, J. K., Teramoto, T., Robbins, R. C., McConnell, M. V., Yeung, A. C., Brinton, T. J., Harnish, et al
  2011; 4 (5): 574-582

- **Detection of Injured Border Zone Myocardium Using Manganese-Enhanced and Delayed-Enhanced MRI in a Pig Ischemia-Reperfusion Model**
  Dash, R., Chung, J., Hahn-Windgassen, A., Matsuura, Y., Ikeno, F., Lyons, J., Teramoto, T., Yeung, A. C., McConnell, M. V., Brinton, T. J., Harnish, P., Yang, P. C.
  LIPPINCOTT WILLIAMS & WILKINS.2010

- **Differential regulation of p38 mitogen-activated protein kinase mediates gender-dependent catecholamine-induced hypertrophy** *CARDIOVASCULAR RESEARCH*
  Dash, R., Schmidt, A. G., Pathak, A., Gerst, M. J., Biniakiewicz, D., Kadambi, V. J., Hoit, B. D., Abraham, W. T., Kranias, E. G.
  2003; 57 (3): 704-714

- **Gender influences on sarcoplasmic reticulum Ca2+-handling in failing human myocardium** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
  Dash, R., Frank, K. F., Carr, A. N., Moravec, C. S., Kranias, E. G.
  2001; 33 (7): 1345-1353

- **Interactions between phospholamban and beta-adrenergic drive may lead to cardiomyopathy and early mortality** *CIRCULATION*
  Dash, R., Kadambi, V. J., Schmidt, A. G., Tepe, N. M., Biniakiewicz, D., Gerst, M. J., Canning, A. M., Abraham, W. T., Hoit, B. D., Liggett, S. B., Lorenz, J. N., Dorn, G. W., Kranias, et al
  2001; 103 (6): 889-896

- **Evidence Of Genetic Testing In A Large, Real -world DCM Cohort And Association With Heart Failure Risk**
  Bhasin, K., Longoni, M., Ward, A., Nisson, M., White, B., Lee, D., Bhatt, S., Rodriguez, F., Dash, R.
  CHURCHILL LIVINGSTONE INC MEDICAL PUBLISHERS.2024: 128

- **Drivers of variation in telemedicine use during the COVID-19 pandemic: The experience of a large academic cardiovascular practice.** *Journal of telemedicine and telecare*
  Koos, H., Parameswaran, V., Claire, S., Chen, C., Kalwani, N., Osmanlliu, E., Qureshi, L., Dash, R., Scheinker, D., Rodriguez, F.
  2022: 1357633X221130288

- **Real-World Diagnosis and Treatment of Diabetic Kidney Disease.** *Advances in therapy*
  Rodriguez, F., Lee, D. J., Gad, S. S., Santos, M. P., Beetel, R. J., Vasey, J., Bailey, R. A., Patel, A., Blais, J., Weir, M. R., Dash, R.
  2021

- **Application of the Quadruple Aim to evaluate the operational impact of a telemedicine program.** *Healthcare (Amsterdam, Netherlands)*
  Kalwani, N. M., Wang, K. M., Johnson, A. N., Deb, J. D., Gold, T., Maddukuri, A. K., Savage, E. G., Parameswaran, V., Dash, R., Scheinker, D., Rodriguez, F.
  2021; 9 (4): 100593

- **Five-Year Outcomes of Transcatheter or Surgical Aortic-Valve Replacement.** *The New England journal of medicine*
  Makkar, R. R., Thourani, V. H., Mack, M. J., Kodali, S. K., Kapadia, S., Webb, J. G., Yoon, S., Trento, A., Svensson, L. G., Herrmann, H. C., Szeto, W. Y., Miller, D. C., Satler, et al
  2020; 382 (9)

- **Index of Microcirculatory Resistance and Infarct Size** *JACC-CARDIOVASCULAR IMAGING*
  Fearon, W. F., Dash, R.
  2019; 12 (5): 849–51

- **Myocardial viability of the peri-infarct region measured by T1 mapping post manganese-enhanced MRI correlates with LV dysfunction** *INTERNATIONAL JOURNAL OF CARDIOLOGY*
  Tada, Y., Heidary, S., Tachibana, A., Zaman, J., Neofytou, E., Dash, R., Wu, J. C., Yang, P. C.
  2019; 281: 8–14

- **INSULIN RESISTANCE ASSOCIATES WITH ADVERSE CARDIAC REMODELING IN THE ABSENCE OF HYPERTENSION IN YOUNG SOUTH ASIANS**
  Bose, R., Arora, M., Abbasi, F., Roy, E., Nallamshetty, S., Khandelwal, A., Ranade, P., Dash, R.
  ELSEVIER SCIENCE INC.2017: 1871

- **Therapeutic Hypothermia in Postcardiac Arrest.** *Therapeutic hypothermia and temperature management*
  Polderman, K. H., Dash, R., Nichol, G., Deye, N.
  2017; 7 (1): 2-7

- **Apelin-13 infusion salvages the peri-infarct region to preserve cardiac function after severe myocardial injury** *INTERNATIONAL JOURNAL OF CARDIOLOGY*
  Chung, W., Cho, A., Byun, K., Moon, J., Ge, X., Seo, H., Moon, E., Dash, R., Yang, P. C.
  2016; 222: 361-367

- **Multimodality Molecular Imaging of Cardiac Cell Transplantation: Part II. In Vivo Imaging of Bone Marrow Stromal Cells in Swine with PET/CT and MR Imaging.** *Radiology*
  Parashurama, N., Ahn, B., Ziv, K., Ito, K., Paulmurugan, R., Willmann, J. K., Chung, J., Ikeno, F., Swanson, J. C., Merk, D. R., Lyons, J. K., Yerushalmi, D., Teramoto, et al
  2016; 280 (3): 826-836

- **Multimodality Molecular Imaging of Cardiac Cell Transplantation: Part I. Reporter Gene Design, Characterization, and Optical in Vivo Imaging of Bone Marrow Stromal Cells after Myocardial Infarction.** *Radiology*
  Parashurama, N., Ahn, B., Ziv, K., Ito, K., Paulmurugan, R., Willmann, J. K., Chung, J., Ikeno, F., Swanson, J. C., Merk, D. R., Lyons, J. K., Yerushalmi, D., Teramoto, et al
  2016; 280 (3): 815-825

- **Aligned nanofibrillar collagen scaffolds - Guiding lymphangiogenesis for treatment of acquired lymphedema.** *Biomaterials*
  Hadamitzky, C., Zaitseva, T. S., Bazalova-Carter, M., Paukshto, M. V., Hou, L., Strassberg, Z., Ferguson, J., Matsuura, Y., Dash, R., Yang, P. C., Kretchetov, S., Vogt, P. M., Rockson, et al
  2016; 102: 259-267

- **Magnetic Resonance Imaging and Positron Emission Tomography Approaches to Imaging Vascular and Cardiac Inflammation** *CIRCULATION JOURNAL*
  Amsallem, M., Saito, T., Tada, Y., Dash, R., McConnell, M. V.
  2016; 80 (6): 1269-1277

- **Transcatheter or Surgical Aortic-Valve Replacement in Intermediate-Risk Patients** *NEW ENGLAND JOURNAL OF MEDICINE*
  Leon, M. B., Smith, C. R., Mack, M. J., Makkar, R. R., Svensson, L. G., Kodali, S. K., Thourani, V. H., Tuzcu, E. M., Miller, D. C., Herrmann, H. C., Doshi, D., Cohen, D. J., Pichard, et al
  2016; 374 (17): 1609-1620

- **Telmisartan in the diabetic murine model of acute myocardial infarction: dual contrast manganese-enhanced and delayed enhancement MRI evaluation of the peri-infarct region.** *Cardiovascular diabetology*
  Toma, I., Kim, P. J., Dash, R., McConnell, M. V., Nishimura, D., Harnish, P., Yang, P. C.
  2016; 15 (1): 24-?

- **Comprehensive Characterization Of Insulin Resistance And Its Association With Ventricular Function In Pulmonary Arterial Hypertension**
  Wells, R. E., Cuttica, M., Dash, R., Abbasi, F., Van de Veerdonk, M., Preston, I. R., Hemnes, A. R., Sweatt, A. J., Gomberg-Maitland, M., Zamanian, R. T.
  AMER THORACIC SOC.2016

- **Endovascular hypothermia treatment dose-modulates cardioprotection in favor of 32 degrees C target temperature before reperfusion in porcine myocardial infarction**
  Mitsutake, Y., Dash, R., Ikeno, F., Pyun, W., Lyons, J., Dawoud, F., Illindala, U., Yeung, A.
  ELSEVIER SCIENCE INC.2015: B94

- **Rapid endovascular moderate hypothermia before reperfusion provides more cardioprotection than mild hypothermia in a porcine model of myocardial infarction**
  Dash, R., Dawoud, F., Ikeno, F., Tachibana, A., Lyons, J., Mitsutake, Y., Pyun, W. B., McConnell, M., Illindala, U., Yeung, A.
  OXFORD UNIV PRESS.2015: 353

- **Low-Dose FK506 (Tacrolimus) in End-Stage Pulmonary Arterial Hypertension.** *American journal of respiratory and critical care medicine*
  Spiekerkoetter, E., Sung, Y. K., Sudheendra, D., Bill, M., Aldred, M. A., van de Veerdonk, M. C., Vonk Noordegraaf, A., Long-Boyle, J., Dash, R., Yang, P. C., Lawrie, A., Swift, A. J., Rabinovitch, et al
  2015; 192 (2): 254-257

- **INCREASED MYOCARDIAL VIABILITY AND FUNCTION MEASURED BY MANGANESE-ENHANCED MRI (MEMRI) DEMONSTRATE MYOCARDIAL REGENERATION BY HUMAN PLURIPOTENT STEM CELL DERIVED CARDIOMYOCYTES (HPCMS)**
  Tachibana, A., Rulifson, E., Matsuura, Y., Thakker, R., Wang, M., Wu, J., Dash, R., Yang, P.
  ELSEVIER SCIENCE INC.2015: A2147

- **THERAPEUTIC HYPOTHERMIA DOSE RESPONSE ON INFARCT SIZE IN ACUTE MYOCARDIAL INFARCTION USING ENDOVASCULAR COOLING AND REWARMING**
  Mitsutake, Y., Pyun, W., Dash, R., Tachibana, A., Matsuura, Y., Green, A., Lyons, J., Yeung, A., Ikeno, F.
  ELSEVIER SCIENCE INC.2015: A161

- **Assessment of Obesity and Cardiovascular Risk in South Asians** *CURRENT CARDIOVASCULAR RISK REPORTS*
  Parikh, N. I., Aurora, M. S., Dash, R., Shin, J. J., Palaniappan, L.
  2015; 9 (1)

- **Relationship between Echocardiographic and Magnetic Resonance Derived Measures of Right Ventricular Size and Function in Patients with Pulmonary Hypertension.** *Journal of the American Society of Echocardiography*
  Shiran, H., Zamanian, R. T., McConnell, M. V., Liang, D. H., Dash, R., Heidary, S., Sudini, N. L., Wu, J. C., Haddad, F., Yang, P. C.
  2014; 27 (4): 405-412

- **Manganese-Enhanced MRI Enables Longitudinal in vivo Tracking of Transplanted Stem Cell Viability in the Murine Myocardium**
  Dash, R., Subramanian, A., Matsuura, Y., Sohn, I., Yeh, T., McConnell, M. V., Wu, J. C., Yang, P. C.
  LIPPINCOTT WILLIAMS & WILKINS.2013

- **A novel stress echocardiography pattern for myocardial bridge with invasive structural and hemodynamic correlation.** *Journal of the American Heart Association*
  Lin, S., Tremmel, J. A., Yamada, R., Rogers, I. S., Yong, C. M., Turcott, R., McConnell, M. V., Dash, R., Schnittger, I.
  2013; 2 (2)

- **A novel stress echocardiography pattern for myocardial bridge with invasive structural and hemodynamic correlation.** *Journal of the American Heart Association*
  Lin, S., Tremmel, J. A., Yamada, R., Rogers, I. S., Yong, C. M., Turcott, R., McConnell, M. V., Dash, R., Schnittger, I.
  2013; 2 (2)

- **DUAL CONTRAST CARDIAC MRI FOR EVALUATION OF TELMISARTAN AND AMLODIPINE COMBINATION THERAPY IN THE DIABETIC MURINE MYOCARDIAL INJURY MODEL** *62nd Annual Scientific Session of the American-College-of-Cardiology*
  Kim, P., Gong, Y., Harnish, P., Toma, I., Dash, R., Robbins, R., Yang, P.
  ELSEVIER SCIENCE INC.2013: E941–E941

- **VALIDATION OF INFARCT CHARACTERIZATION IN A PORCINE ISCHEMIA REPERFUSION INJURY MODEL** *62nd Annual Scientific Session of the American-College-of-Cardiology*
  Nakagawa, K., Ikeno, F., Matsuura, Y., Lyons, J., Nguyen, P., Wu, J., Yeung, A. C., Yang, P. C., Dash, R.
  ELSEVIER SCIENCE INC.2013: E617–E617

- **SUSTAINED RESTORATION OF LV FUNCTION IN A PORCINE ISCHEMIA-REPERFUSION INJURY MODEL USING HUMAN PLACENTAL MESENCHYMAL STEM CELLS AND MANGANESE-ENHANCED MRI** *62nd Annual Scientific Session of the American-College-of-Cardiology*
  Dash, R., Kim, P., Matsuura, Y., Ikeno, F., Lyons, J., Ge, X., Metzler, S., Huang, N., Nguyen, P., Wu, J. C., Cooke, J., Luiz-Rozano, P., Robbins, et al
  ELSEVIER SCIENCE INC.2013: E1142–E1142

- **REGENERATIVE CHANGES OF THE PERI-INFARCT INJURY ALLOWS SUSTAINED RESTORATION OF THE INJURED MYOCARDIUM** *62nd Annual Scientific Session of the American-College-of-Cardiology*
  Kim, P., Gong, Y., Ge, X., Harnish, P., Dash, R., Robbins, R., Yang, P.
  ELSEVIER SCIENCE INC.2013: E1074–E1074

- **Near infrared imaging and photothermal ablation of vascular inflammation using single-walled carbon nanotubes.** *Journal of the American Heart Association*
  Kosuge, H., Sherlock, S. P., Kitagawa, T., Dash, R., Robinson, J. T., Dai, H., McConnell, M. V.

2012; 1 (6)

- **Relationship Between Echocardiographic and MRI-derived Measures of RV Size and Function in Patients with Pulmonary Arterial Hypertension**
  Shiran, H., Liang, D. H., Dash, R., Heidary, S., Sudini, N. L., Seo, H., Wu, J. C., Haddad, F., Yang, P. C.
  LIPPINCOTT WILLIAMS & WILKINS.2012

- **Myocardial Bridging: Novel Insights from Exercise Echocardiographic Correlations with Hemodynamic Measurements - The Venturi Effect**
  Lin, S., Tremmel, J., Yamada, R., Yong, C. M., Rogers, I. S., McConnell, M. V., Dash, R., Schnittger, I.
  LIPPINCOTT WILLIAMS & WILKINS.2012

- **The Human Amniotic Mesenchymal Stem Cell-derived Ipscs Survive and Restore the Injured Hearts in an Immunocompetent Mouse Model of Myocardial Injury**
  Ge, X., Chung, W., Kim, P. J., Gong, Y., Chang, P., Robbins, R., Dash, R., Yang, P. C.
  LIPPINCOTT WILLIAMS & WILKINS.2012

- **Theranostic effect of serial manganese-enhanced magnetic resonance imaging of human embryonic stem cell derived teratoma** *MAGNETIC RESONANCE IN MEDICINE*
  Chung, J., Dash, R., Kee, K., Barral, J. K., Kosuge, H., Robbins, R. C., Nishimura, D., Reijo-Pera, R. A., Yang, P. C.
  2012; 68 (2): 595-599

- **Cardiovascular Magnetic Resonance Imaging Elucidates Genotype-Phenotype Relationships in Patients with Hypertrophic Cardiomyopathy** *Scientific Sessions of the American-Heart-Association/Resuscitation Science Symposium*
  Heidary, S., Wheeler, M. T., Bennett, M. V., Chung, J., Pavlovic, A., Parent, M., Dash, R., McConnell, M. V., Ashley, E. A., Yang, P. C.
  LIPPINCOTT WILLIAMS & WILKINS.2011

- **In vivo Molecular MRI of Cell Survival and Teratoma Formation Following Embryonic Stem Cell Transplantation Into the Injured Murine Myocardium** *MAGNETIC RESONANCE IN MEDICINE*
  Chung, J., Kee, K., Barral, J. K., Dash, R., Kosuge, H., Wang, X., Weissman, I., Robbins, R. C., Nishimura, D., Quertermous, T., Reijo-Pera, R. A., Yang, P. C.
  2011; 66 (5): 1374-1381

- **In vivo Kinetics of Embryonic Stem Cell Viability Following Transplantation Into the Injured Murine Myocardium** *82nd National Conference and Exhibitions and Scientific Sessions of the American-Heart-Association*
  Chung, J., Kee, K., Barral, J. K., Dash, R., Weissman, I., Quertermous, T., Robbins, R. C., Nishimura, D. G., Reijo-Pera, R. A., Yang, P. C.
  LIPPINCOTT WILLIAMS & WILKINS.2009: S310–S311

- **Magnetic Resonance Imaging With Targeted Iron-Oxide Labeling Detects Differential Cardiac Cell Survival After Doxorubicin and Myocardial Infarction in Culture and In Vivo**
  Dash, R., Chan, T., Yamada, M., Paningbatan, M., Myagmar, B., Swigart, P. M., Yang, P. C., Simpson, P. C.
  ELSEVIER SCIENCE INC.2009: A304

- **Magnetic Resonance Imaging with Iran-Oxide Labeling Detects Differential Cell Survival after Doxorubicin Exposure in Cardiac Myocytes, Fibroblasts, and Stem Cells**
  Dash, R., Chan, T., Yamada, M., Paningbatan, M., Swigart, P. M., Myagmar, B., Yang, P. C., Simpson, P. C.
  LIPPINCOTT WILLIAMS & WILKINS.2008: S996

- **The contractile and neurohormonal roles of phospholamban in heart failure** *17th World Heart Congress*
  Dash, R., Kranias, E. G.
  KLUWER ACADEMIC PUBLISHERS.2003: 135–152

- **The enhanced contractility of the phospholamban-deficient mouse heart persists with aging** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
  Slack, J. P., Grupp, I. L., Dash, R., Holder, D., Schmidt, A., Gerst, M. J., Tamura, T., Tilgmann, C., James, P. F., Johnson, R., Gerdes, A. M., Kranias, E. G.
  2001; 33 (5): 1031-1040

- **Altering the receptor-effector ratio by transgenic overexpression of type V adenylyl cyclase: Enhanced basal catalytic activity and function without increased cardiomyocyte beta-adrenergic signalling** *BIOCHEMISTRY*
  Tepe, N. M., Lorenz, J. N., Yatani, A., Dash, R., Kranias, E. G., Dorn, G. W., Liggett, S. B.
  1999; 38 (50): 16706-16713

- **Influence of transgenic overexpression of phospholamban on postextrasystolic potentiation** *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*
  Hoit, B. D., Tramuta, D. A., Kadambi, V. J., Dash, R., Ball, N., Kranias, E. G., Walsh, R. A.
  1999; 31 (11): 2007-2015

- **Astressin, a novel and potent CRF antagonist, is neuroprotective in the hippocampus when administered after a seizure** *BRAIN RESEARCH*
  Maecker, H., Desai, A., Dash, R., RIVIER, J., Vale, W., Sapolsky, R.
  1997; 744 (1): 166-170

- **Overexpression of the glucose transporter gene with a Herpes simplex viral vector protects striatal neurons against stroke** *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*
  Lawrence, M. S., Sun, G. H., Kunis, D. M., Saydam, T. C., Dash, R., Ho, D. Y., Sapolsky, R. M., Steinberg, G. K.
  1996; 16 (2): 181-185

- **A herpes simplex virus vector overexpressing the glucose transporter gene protects the rat dentate gyrus from an antimetabolite toxin** *EXPERIMENTAL NEUROLOGY*
  Dash, R., Lawrence, M., Ho, D., Sapolsky, R.
  1996; 137 (1): 43-48

- **HERPES-SIMPLEX VIRUS VECTORS OVEREXPRESSING THE GLUCOSE-TRANSPORTER GENE PROTECT AGAINST SEIZURE-INDUCED NEURON LOSS** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Lawrence, M. S., Ho, D. Y., Dash, R., Sapolsky, R. M.
  1995; 92 (16): 7247-7251

- **HERPES-SIMPLEX VIRUS VECTOR SYSTEM - ANALYSIS OF ITS IN-VIVO AND IN-VITRO CYTOPATHIC EFFECTS** *JOURNAL OF NEUROSCIENCE METHODS*
  Ho, D. Y., Fink, S. L., Lawrence, M. S., Meier, T. J., Saydam, T. C., Dash, R., Sapolsky, R. M.
  1995; 57 (2): 205-215