




Phillip C. Yang, MD

Associate Professor of Medicine (Cardiovascular Medicine) at the Stanford University Medical Center

Medicine - Cardiovascular Medicine

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Cardiovascular Medicine Clinic**

300 Pasteur Dr Rm H2157

Stanford, CA 94305

Tel (650) 498-8008

Fax (650) 724-4034

ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Brian Habekoss - Administrative Associate

Tel (650) 498-4805

Bio

BIO

Phillip C. Yang is an Associate Professor of Medicine (Cardiovascular Medicine) at the Stanford University School of Medicine. He directs the Cardiovascular Stem Cell Laboratory (Yang Lab) and Stanford Cardiothoracic MRI Program. Dr. Yang received degrees from Stanford University and Yale University School of Medicine, and completed post-graduate training at UCLA and Stanford University Medical Centers. Dr. Yang is a physician-scientist whose research interest focuses on clinical translation of the fundamental molecular and cellular processes of myocardial restoration. His research employs novel in vivo multi-modality molecular and cellular imaging technology to translate the basic innovation in pluripotent stem cell biology. Novel intracellular molecules and organelles are discovered and studied for functional improvement. Dr. Yang is currently a PI on the NIH/NHLBI funded CCTRN UM1 grant, which is designed to conduct multi-center clinical trial on novel biological therapy. In addition, he is a PI on 3 NIH research grants, 1 CIRM grant, and leads 6 stem cell clinical trials. Currently, he is pioneering the Cardiovascular Regeneration Program at Stanford. Dr. Yang has been the recipient of several prestigious awards including NIH Career Development Award, NIH Career Enhancement Award, and NIH Patient Oriented Research. To find out more, please visit the Yang Lab website: <http://med.stanford.edu/cvmedicine/research/faculty-labs-link/yanglab.html>

CLINICAL FOCUS

- Cardiology (Heart)
- Cardiovascular Disease
- Cardiovascular Imaging
- Cardiovascular Biologics

ACADEMIC APPOINTMENTS

- Associate Professor - Med Center Line, Medicine - Cardiovascular Medicine
- Member, Bio-X
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Cardiology Fellow, Stanford Division of Cardiovascular Medicine, (1994-1999)

- Clinical Instructor & Staff Physician, Stanford Division of Cardiovascular Medicine, (1999-2005)
- Assistant Professor, Stanford Division of Cardiovascular Medicine, (2005-2012)
- Director, Cardiovascular Stem Cell Laboratory, Stanford Division of Cardiovascular Medicine, (2005- present)
- Director, Cardiothoracic MRI Program, Stanford Division of Cardiovascular Medicine, (2012- present)
- Associate Professor, Stanford Division of Cardiovascular Medicine, (2012- present)

HONORS AND AWARDS

- K24 Mid-Career Award in Patient-Oriented Research, National Institute of Health (2016-2021)
- Activation of patient-specific endogenous myocardial repair through the exosomes, California Institute for Regenerative Medicine (2016-2017)
- Tracking cardiac engraftment and viability of cell biologics by MRI, National Institutes of Health (2016-2017)
- Visiting Professor in Molecular Medicine, Jinan University, Guangzhou, China (2015)
- Young Investigator Award Finalist, senior author, American College of Cardiology (2015)
- Co-Chair, Frontiers in Cardiovascular Medicine, Gachon University, Incheon, Korea (2014)
- Cell Characterization and Imaging for Molecular Therapies in Ischemic Diseases, National Institutes of Health (2012-2019)
- Cardiovascular Molecular Biologic Therapy Research Network Principal Investigator, National Institutes of Health (2012)
- Melvin Judkins Young Investigator Award, 1st Place, senior author, American Heart Association (2012)
- Melvin Judkins Young Investigator Award, 1st Place, senior author, American Heart Association (2011)
- Melvin Judkins Young Investigator Award, 1st Place, senior author, American Heart Association (2010)
- Melvin Judkins Young Investigator Award, 1st Place, senior author, American Heart Association (2009)
- Judge, Young Investigator Awards Competition: Physiology, Pharmacology, and Pathology, American College of Cardiology (2008)
- K18 Career Enhancement Award, National Institutes of Health (2007)
- Young Investigator Award, Finalist, American College of Cardiology (2007)
- Vivien Thomas Young Investigator Award, American Heart Association (2005)
- Young Investigator Award, Finalist, American College of Cardiology (Senior Author) (2005)
- Teaching Award, Stanford University School of Medicine (2004)
- Young Investigator Award, Finalist, American College of Cardiology (Senior Author) (2004)
- Glaxo Smith Kline Scholar, American Federation of Medical Research (2003)
- Career Development Award, National Institute of Health (2000)
- K23 Career Development Award, National Institute of Health (2000)
- Edwin L Alderman Award for Excellence in Research, Stanford Cardiovascular Medicine (1999)
- Young Investigator Award, American College of Cardiology (1998)
- Physiology & Pharmacology Research Award, Stanford Cardiovascular Medicine (1997)
- Soloman's Scholarship, UCLA Dept of Medicine (1993)
- Cum Laude, Yale University School of Medicine (1989)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Reviewer, National Institute of Health Myocardial Ischemia and Metabolism (MIM) Study Section (2016 - present)
- Co-Chair, American Heart Association Stem Cell Working Group (2015 - present)
- Reviewer, Veterans Affairs, Cardiovascular Studies – A (CARA) panel, Merit Review meeting (2015 - 2016)
- Reviewer, National Institute of Health Clinical and Integrative Cardiovascular Sciences (CICS) Study Section, (2015 - 2016)

- Reviewer, National Institute of Health Cardiovascular and Respiratory Sciences IRG Special Emphasis (2015 - 2016)
- Reviewer, Department of Defense, Cardiovascular Health of the Defense Health Program, Investigator-Initiated Research Award (2015 - 2015)
- Reviewer, Veterans Affairs Office of Research and Development proposal (2015 - 2015)
- Member, American College of Cardiology, Annual Scientific Session Program Committee (2010 - 2012)
- Reviewer, National Institute Health, ARRA Challenge Grant Study Section (2009 - 2009)
- Reviewer, American Heart Association, National Center Grant Study Section – Radiology and Surgery (2004 - 2009)
- Reviewer, American Heart Association, Western Regional Grant Study Section – Cardiovascular Molecular and Cellular Imaging (2004 - 2009)

PROFESSIONAL EDUCATION

- Board Certification: Echocardiography, National Board of Echocardiography (2008)
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (1999)
- Fellowship: Stanford University School of Medicine Registrar (1998) CA
- Residency: UCLA Medical Center Radiology Fellowship (1993) CA
- Internship: UCLA David Geffen School Of Medicine Registrar (1990) CA
- Medical Education: Yale School Of Medicine Office of Student Affairs (1989) CT
- Resident, UCLA Department of Medicine , Internal Medicine (1993)
- MD, Yale University , MD, Cum Laude (1989)
- MA, Stanford University , East Asian Studies (1984)
- BAS, Stanford University , Biology and East Asian Studies (1984)

COMMUNITY AND INTERNATIONAL WORK

- Editor, Circulation Research
- Editor, Journal of Cardiovascular Magnetic Resonance
- Member, American Heart Association, National Grant Study Committee
- Member, American Heart Association, Western Regional Grant Study Committee
- Board Member, National Center for Space Biological Technologies (NASA)
- Language Background

PATENTS

- Yang PC, Dash R. "United States Patent 14/992,847 MRI Evaluation of Heterogeneous Tissue.", Leland Stanford Junior University, Jun 1, 2016
- Liang DH, Yang PC, Koolwal A, Park B.. "United States Patent US2006030777-A-1 Ultrasound image generation method in medical application, involves calculating t-statistic value for each image point and producing enhance image without ultrasound echo amplitudes.", Leland Stanford Junior University, Feb 2, 2006
- Liang DH, Yang PC, Koolwal A, Park B.. "United States Patent S04-114/PROV, US2006030777-A1 T-statistic method for suppressing blood artifact in ultrasound imaging", Leland Stanford Junior University, Aug 1, 2004
- Yang PC. "United States Patent PO3 4625 Protective Cover for Hypodermic Needle.", Sep 1, 1989
- Yang PC. "United States Patent PO3 5125 Protective Cover and Connector for Hypodermic Needle.", Sep 1, 1989

LINKS

- Yang Lab: The Cardiovascular Stem Cell Lab: <http://med.stanford.edu/cvmedicine/research/faculty-labs-link/yanglab.html>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The emergence of cardiovascular pluripotent stem cells created a paradigm shift in how we approach cardiovascular diseases. This innovation has required a careful evaluation of the interaction between the recipient tissue and small molecules at a fundamental cellular level. Dr. Yang's laboratory is discovering the cellular and molecular biologies of pluripotent stem cells, employing advanced imaging technology. His research effort characterizes the injured myocardium as a biological niche for small molecule and cellular organelle therapy to discover their novel action of mechanism to cure heart failure.

As a physician-scientist, Dr. Yang's research focuses on the translational effort of novel small molecules and cellular organelles from pluripotent stem cells. His laboratory combines restorative molecular biology with novel imaging technology to advance clinical implementation of extracellular vesicles and their molecular content. High sensitivity and exquisite resolution enable robust evaluation of regional cardiovascular restoration and the underlying mechanism of action. Precision medicine, employing endogenous biologies, will create a paradigm shift. His research will provide a requisite validation of the role of the small molecules and personalized therapy to heal the failing heart. Through this focused programmatic effort, he is pioneering the Cardiovascular Regeneration Program at Stanford.

Dr. Yang is a PI of NIH funded Cardiovascular Cell Therapy Research Network designed to conduct multi-center clinical trial of novel biologies. In addition, he leads 3 NIH and 1 CIRM research grants and 4 clinical trials. He has received several prestigious awards, including NIH Career Development Award, NIH Career Enhancement Award, NIH Midcareer Award, and multiple awards from both AHA and ACC. He is a frequent guest speaker and session chair at national and international meetings.

CLINICAL TRIALS

- Study of Dutogliptin in Combination With Filgrastim in Post-Myocardial Infarction, Recruiting
- Combination of Mesenchymal and C-kit+ Cardiac Stem Cells as Regenerative Therapy for Heart Failure, Not Recruiting
- Efficacy and Safety of Allogeneic Mesenchymal Precursor Cells (Rexlemestrocel-L) for the Treatment of Heart Failure., Not Recruiting
- Efficacy of EVP 1001-1 (SeeMore) in the Assessment of Myocardial Viability in Patients With Cardiovascular Disease, Not Recruiting
- Patients With Intermittent Claudication Injected With ALDH Bright Cells, Not Recruiting
- Stem Cell Injection in Cancer Survivors, Not Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Gentaro Ikeda, Ji Hye Jung, Connor O'Brien, Evgeniya Vaskova

Postdoctoral Research Mentor

Gentaro Ikeda, Ji Hye Jung, Connor O'Brien, Evgeniya Vaskova

Publications

PUBLICATIONS

- **SULFATED DEXTRAN-COATED IRON OXIDE NANOPARTICLES DETECT INFLAMMATION IN THE PERI-INFARCT REGION POST-ACUTE MYOCARDIAL INFARCTION**
Tada, Y., Ikeda, G., Louie, A., Yang, P.
ELSEVIER SCIENCE INC.2020: 1792

- **MITOCHONDRIA CONTAINING EXTRACELLULAR VESICLES FROM AUTOLOGOUS INDUCED PLURIPOTENT STEM CELL DERIVED CARDIOMYOCYTES RESTORE BIOENERGETICS IN ISCHEMIC MYOCARDIUM**
Ikeda, G., Santoso, M., Tada, Y., Vaskova, E., O'Brien, C. G., Jung, J., Yang, P. C.
ELSEVIER SCIENCE INC.2020: 3659
- **Exosomes From Induced Pluripotent Stem Cell-Derived Cardiomyocytes Promote Autophagy for Myocardial Repair.** *Journal of the American Heart Association*
Santoso, M. R., Ikeda, G., Tada, Y., Jung, J., Vaskova, E., Sierra, R. G., Gati, C., Goldstone, A. B., von Bornstaedt, D., Shukla, P., Wu, J. C., Wakatsuki, S., Woo, et al
2020; 9 (6): e014345
- **Manganese-enhanced T1 mapping to quantify myocardial viability: validation with 18F-fluorodeoxyglucose positron emission tomography.** *Scientific reports*
Spath, N., Tavares, A., Gray, G. A., Baker, A. H., Lennen, R. J., Alcaide-Corral, C. J., Dweck, M. R., Newby, D. E., Yang, P. C., Jansen, M. A., Semple, S. I.
2020; 10 (1): 2018
- **Ferumoxylol-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
- **Iron Oxide Labeling and Tracking of Extracellular Vesicles** *MAGNETOCHEMISTRY*
Tada, Y., Yang, P. C.
2019; 5 (4)
- **Meta-analysis of short- and long-term efficacy of mononuclear cell transplantation in patients with myocardial infarction.** *American heart journal*
Yang, D., O'Brien, C. G., Ikeda, G., Traverse, J. H., Taylor, D. A., Henry, T. D., Bolli, R., Yang, P. C.
2019; 220: 155–75
- **Combined T2 -preparation and multidimensional outer volume suppression for coronary artery imaging with 3D cones trajectories.** *Magnetic resonance in medicine*
Zeng, D. Y., Baron, C. A., Malave, M. O., Kerr, A. B., Yang, P. C., Hu, B. S., Nishimura, D. G.
2019
- **Broad Genetic Testing in a Clinical Setting Uncovers a High Prevalence of Titin Loss-of-Function Variants in Very Early-Onset Atrial Fibrillation.** *Circulation. Genomic and precision medicine*
Goodyer, W. R., Dunn, K., Caleshu, C., Jackson, M., Wylie, J., Moscarello, T., Platt, J., Reuter, C., Smith, A., Trela, A., Ceresnak, S. R., Motonaga, K. S., Ashley, et al
2019
- **Stem Cell-Derived Exosomes Protect Astrocyte Cultures From in vitro Ischemia and Decrease Injury as Post-stroke Intravenous Therapy** *FRONTIERS IN CELLULAR NEUROSCIENCE*
Sun, X., Jung, J., Arvola, O., Santoso, M. R., Giffard, R. G., Yang, P. C., Stary, C. M.
2019; 13
- **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
- **MICROVESICLES LARGER THAN 200NM RESCUE CARDIOMYOCYTES FROM DOXORUBICIN INJURY IN A PATIENT-SPECIFIC MODEL OF ANTHRACYCLINE INDUCED CARDIOMYOPATHY**
O'Brien, C., Shi, L., Ozgun, M., Vaskova, E., Santoso, M., Jung, J., Ikeda, G., Demirci, U., Yang, P.
ELSEVIER SCIENCE INC.2019: 688
- **Whole-heart coronary MR angiography using a 3D cones phyllotaxis trajectory** *MAGNETIC RESONANCE IN MEDICINE*
Malave, M. O., Baron, C. A., Addy, N., Cheng, J. Y., Yang, P. C., Hu, B. S., Nishimura, D. G.
2019; 81 (2): 1092–1103
- **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., Pavlovic, A., Schlachter, A., Dash, R., Fleischmann, D., Ashley, E. A., Wheeler, M. T., Yang, P. C.
2019; 14 (6): e0217612
 - **Stem Cell-Derived Exosomes Protect Astrocyte Cultures From in vitro Ischemia and Decrease Injury as Post-stroke Intravenous Therapy.** *Frontiers in cellular neuroscience*
Sun, X., Jung, J. H., Arvola, O., Santoso, M. R., Giffard, R. G., Yang, P. C., Stary, C. M.
2019; 13: 394
 - **Whole-heart coronary MR angiography using a 3D cones phyllotaxis trajectory.** *Magnetic resonance in medicine*
Malave, M. O., Baron, C. A., Addy, N. O., Cheng, J. Y., Yang, P. C., Hu, B. S., Nishimura, D. G.
2018
 - **Rationale and Design of the SENECA (StEm cell iNjECTION in cAncer survivors) Trial** *AMERICAN HEART JOURNAL*
Bolli, R., Hare, J. M., Henry, T. D., Lenneman, C. G., March, K. L., Miller, K., Pepine, C. J., Perin, E. C., Traverse, J. H., Willerson, J. T., Yang, P. C., Gee, A. P., Lima, et al
2018; 201: 54–62
 - **Rationale and Design of the CONCERT-HF Trial (Combination of Mesenchymal and c-kit(+) Cardiac Stem Cells As Regenerative Therapy for Heart Failure)** *CIRCULATION RESEARCH*
Bolli, R., Hare, J. M., March, K. L., Pepine, C. J., Willerson, J. T., Perin, E. C., Yang, P. C., Henry, T. D., Traverse, J. H., Mitrani, R. D., Khan, A., Hernandez-Schulman, I., Taylor, et al
2018; 122 (12): 1703–15
 - **MANGANESE-ENHANCED T1 MAPPING IN MYOCARDIAL INFARCTION: VALIDATION WITH F-18-FDG PET/MR**
Spath, N. B., Tavares, A., Gray, G. A., Dweck, M. R., Newby, D. E., Yang, P. C., Jansen, M. A., Semple, S. I.
BMJ PUBLISHING GROUP.2018: A9
 - **EXOSOMES PRODUCED BY HUMAN AMNIOTIC MESENCHYMAL STEM CELL-DERIVED INDUCED PLURIPOTENT STEM CELLS MODULATE IMMUNE RESPONSE IN MURINE MYOCARDIAL INJURY MODEL**
Jang, A., Seo, H., Bornstaedt, D., Jung, J., Vaskova, E., Yang, P.
ELSEVIER SCIENCE INC.2018: 82
 - **EXOSOMAL MIR-106A-363 CLUSTER FROM THE HYPOXIC HUMAN IPSC-DERIVED CARDIOMYOCYTES RESTORE THE ISCHEMIC MYOCARDIUM**
Jung, J., Tada, Y., Bornstaedt, D., Wahlquist, C., Mercola, M., Woo, Y., Yang, P.
ELSEVIER SCIENCE INC.2018: 14
 - **PLEIOTROPIC EFFECTS OF THE EXOSOMES FROM IPSC-DERIVATIVES IN RESTORING INJURED MYOCARDIUM**
Vaskova, E., Tada, Y., von Bornstaedt, D., Woo, Y., Yang, P.
ELSEVIER SCIENCE INC.2018: 80
 - **Circulating Biomarkers to Identify Responders in Cardiac Cell therapy (vol 7, 4419, 2017)** *SCIENTIFIC REPORTS*
Jokerst, J. V., Cauwenberghs, N., Kuznetsova, T., Haddad, F., Sweeney, T., Hou, J., Rosenberg-Hasson, Y., Zhao, E., Schutt, R., Bolli, R., Traverse, J. H., Pepine, C. J., Henry, et al
2018; 8: 4257
 - **Induced Pluripotent Stem Cell (iPSC)-Derived Exosomes for Precision Medicine in Heart Failure** *CIRCULATION RESEARCH*
Yang, P. C.
2018; 122 (5): 661–63
 - **Effect of Cell Sex on Uptake of Nanoparticles: The Overlooked Factor at the Nanobio Interface** *ACS NANO*
Serpooshan, V., Sheibani, S., Pushparaj, P., Wojcik, M., Jang, A. Y., Santoso, M. R., Jang, J. H., Huang, H., Safavi-Sohi, R., Haghjoo, N., Nejadnik, H., Aghaverdi, H., Vali, et al
2018; 12 (3): 2253–66
 - **Imaging cellular pharmacokinetics of F-18-FDG and 6-NBDG uptake by inflammatory and stem cells** *PLOS ONE*
Zaman, R. T., Tuerkcan, S., Mahmoudi, M., Saito, T., Yang, P. C., Chin, F. T., McConnell, M. V., Xing, L.

2018; 13 (2): e0192662

- **TIME Trial: Effect of Timing of Stem Cell Delivery Following ST-Elevation Myocardial Infarction on the Recovery of Global and Regional Left Ventricular Function: Final 2-Year Analysis** *CIRCULATION RESEARCH*
Traverse, J. H., Henry, T. D., Pepine, C. J., Willerson, J. T., Chugh, A., Yang, P. C., Zhao, D. M., Ellis, S. G., Forder, J. R., Perin, E. C., Penn, M. S., Hatzopoulos, A. K., Chambers, et al
2018; 122 (3): 479–88
- **Molecular Imaging of Stem Cells and Exosomes for Myocardial Regeneration** *CURRENT CARDIOVASCULAR IMAGING REPORTS*
Santoso, M. R., Yang, P. C.
2017; 10 (11)
- **Challenging the complementarity of different metrics of left atrial function: insight from a cardiomyopathy-based study** *EUROPEAN HEART JOURNAL-CARDIOVASCULAR IMAGING*
Kobayashi, Y., Moneghetti, K. J., Boralkar, K., Amsallem, M., Tuzovic, M., Liang, D., Yang, P. C., Narayan, S., Kuznetsova, T., Wu, J. C., Schnittger, I., Haddad, F.
2017; 18 (10): 1153–62
- **Advanced glycation end-product (AGE)-albumin from activated macrophage is critical in human mesenchymal stem cells survival and post-ischemic reperfusion injury** *SCIENTIFIC REPORTS*
Son, M., Kang, W., Oh, S., Bayarsaikhan, D., Ahn, H., Lee, J., Park, H., Lee, S., Choi, J., Lee, H., Yang, P. C., Byun, K., Lee, et al
2017; 7: 11593
- **Paracrine Effects of the Pluripotent Stem Cell-Derived Cardiac Myocytes Salvage the Injured Myocardium** *CIRCULATION RESEARCH*
Tachibana, A., Santoso, M. R., Mahmoudi, M., Shukla, P., Wang, L., Bennett, M., Goldstone, A. B., Wang, M., Fukushi, M., Ebert, A. D., Woo, Y., Rulifson, E., Yang, et al
2017; 121 (6): E22+
- **Myocardial Edema on T2-Weighted MRI New Marker of Ischemia Reperfusion Injury and Adverse Myocardial Remodeling** *CIRCULATION RESEARCH*
Tada, Y., Yang, P. C.
2017; 121 (4): 326–28
- **T1 Map of Post-Myocardial Infarction for Precise Tissue Characterization.** *Circulation. Cardiovascular imaging*
Youssef, A. A., Yang, P. C.
2017; 10 (8)
- **T1 Map of Post-Myocardial Infarction for Precise Tissue Characterization** *CIRCULATION-CARDIOVASCULAR IMAGING*
Youssef, A. A., Yang, P. C.
2017; 10 (8)
- **Circulating Biomarkers to Identify Responders in Cardiac Cell therapy** *SCIENTIFIC REPORTS*
Jokerst, J. V., Cauwenberghs, N., Kuznetsova, T., Haddad, F., Sweeney, T., Hou, J., Rosenberg-Hasson, Y., Zhao, E., Schutt, R., Bolli, R., Traverse, J. H., Pepine, C. J., Henry, et al
2017; 7: 4419
- **Peripheral Blood Cytokine Levels After Acute Myocardial Infarction IL-1 beta- and IL-6-Related Impairment of Bone Marrow Function** *CIRCULATION RESEARCH*
Shahrivari, M., Wise, E., Resende, M., Shuster, J. J., Zhang, J., Bolli, R., Cooke, J. P., Hare, J. M., Henry, T. D., Khan, A., Taylor, D. A., Traverse, J. H., Yang, et al
2017; 120 (12): 1947–57
- **3D image-based navigators for coronary MR angiography** *MAGNETIC RESONANCE IN MEDICINE*
Addy, N. O., Ingle, R. R., Luo, J., Baron, C. A., Yang, P. C., Hu, B. S., Nishimura, D. G.
2017; 77 (5): 1874-1883
- **Evaluation of Cell Therapy on Exercise Performance and Limb Perfusion in Peripheral Artery Disease: The CCTRN Patients with Intermittent Claudication Injected with ALDH Bright Cells (PACE) Trial.** *Circulation*
Perin, E. C., Murphy, M. P., March, K. L., Bolli, R., Loughran, J., Yang, P. C., Leeper, N. J., Dalman, R. L., Alexander, J. Q., Henry, T. D., Traverse, J. H., Pepine, C. J., Anderson, et al
2017

- **Exosomes Generated From iPSC-Derivatives New Direction for Stem Cell Therapy in Human Heart Diseases** *CIRCULATION RESEARCH*
Jung, J., Fu, X., Yang, P. C.
2017; 120 (2): 407-417
- **Identification of cardiovascular risk factors associated with bone marrow cell subsets in patients with STEMI: a biorepository evaluation from the CCTRN TIME and LateTIME clinical trials** *BASIC RESEARCH IN CARDIOLOGY*
Contreras, A., Orozco, A. F., Resende, M., Schutt, R. C., Traverse, J. H., Henry, T. D., Lai, D., Cooke, J. P., Bolli, R., Cohen, M. L., Moye, L., Pepine, C. J., Yang, et al
2017; 112 (1)
- **The Protein Corona around Nanoparticles Facilitates Stem Cell Labeling for Clinical MR Imaging.** *Radiology*
Nejadnik, H., Taghavi-Garmestani, S. M., Madsen, S. J., Li, K., Zanganeh, S., Yang, P., Mahmoudi, M., Daldrup-Link, H. E.
2017: 170130
- **A PET/MR Imaging Approach for the Integrated Assessment of Chemotherapy-induced Brain, Heart, and Bone Injuries in Pediatric Cancer Survivors: A Pilot Study.** *Radiology*
Theruvath, A. J., Ilivitzki, A., Muehe, A., Theruvath, J., Gulaka, P., Kim, C., Luna-Fineman, S., Sakamoto, K. M., Yeom, K. W., Yang, P., Moseley, M., Chan, F., Daldrup-Link, et al
2017: 170073
- **Baseline assessment and comparison of arterial anatomy, hyperemic flow, and skeletal muscle perfusion in peripheral artery disease: The Cardiovascular Cell Therapy Research Network "Patients with Intermittent Claudication Injected with ALDH Bright Cells" (CCTRN PACE) study** *AMERICAN HEART JOURNAL*
Venkatesh, B. A., Nauffal, V., Noda, C., Fujii, T., Yang, P. C., Bettencourt, J., Ricketts, E. P., Murphy, M., Leeper, N. J., Moye, L., Ebert, R. F., Muthupillai, R., Bluemke, et al
2017; 183: 24-34
- **The NHLBI TIME Trial: Role of Microvascular Obstruction in 2-Year Clinical and MRI Follow-up**
Traverse, J. H., Henry, T. D., Pepine, C. J., Willerson, J. T., Perin, E. C., Taylor, D. A., Chugh, A. R., Yang, P. C., Ellis, S. G., Zhao, D. X., Penn, M. S., Forder, J. R., Ebert, et al
LIPPINCOTT WILLIAMS & WILKINS.2016: E710
- **Administration of ALDH Bright Cells to Patients With Intermittent Claudication: The NHLBI CCTRN PACE Trial**
Perin, E. C., Murphy, M., March, K., Bolli, R., Leeper, N. J., Yang, P. C., Alexander, J., Henry, T. D., Traverse, J. H., Pepine, C. J., Willerson, J. T., Velasquez, O., Hare, et al
LIPPINCOTT WILLIAMS & WILKINS.2016: E709
- **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
- **Magnetic Resonance Imaging of Cardiac Strain Pattern Following Transplantation of Human Tissue Engineered Heart Muscles** *CIRCULATION-CARDIOVASCULAR IMAGING*
Qin, X., Riegler, J., Tiburcy, M., Zhao, X., Chour, T., Ndoye, B., Michael Nguyen, M., Adams, J., Ameen, M., Denney, T. S., Yang, P. C., Patricia Nguyen, P., Zimmermann, et al
2016; 9 (11)
- **The Promise and Challenge of Induced Pluripotent Stem Cells for Cardiovascular Applications.** *JACC. Basic to translational science*
Youssef, A. A., Ross, E. G., Bolli, R., Pepine, C. J., Leeper, N. J., Yang, P. C.
2016; 1 (6): 510-523
- **Challenging the complementarity of different metrics of left atrial function: insight from a cardiomyopathy-based study.** *European heart journal cardiovascular Imaging*
Kobayashi, Y., Moneghetti, K. J., Boralkar, K., Amsallem, M., Tuzovic, M., Liang, D., Yang, P. C., Narayan, S., Kuznetsova, T., Wu, J. C., Schnittger, I., Haddad, F.
2016
- **Aligned nanofibrillar collagen scaffolds - Guiding lymphangiogenesis for treatment of acquired lymphedema.** *Biomaterials*
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- Exosomes to restore the injured heart - Anesthesiology Conference (5/1/2016)
- Research Progress of Molecular Biologics and Precision Medicine in USA - First International Stem Cell and Precision Medicine Summit (3/1/2016)
- Cardiovascular MRI: Myth or Truth - Department of Cell Biology and Molecular Medicine Seminar Series Rutgers University (12/2015)
- Cardiac MRI and Stem Cell Therapy - Molecular Medicine of the Heart Master Program in the Graduate School of Biomedical Sciences, Rutgers University (12/2012)
- Regenerative Medicine: iPSC Derived Cardiomyocytes - Frontiers in Cardiovascular Medicine 2nd Annual Session (July 2015)
- Myocardial Viability in Cell Therapy - AHA Scientific Sessions (November 2009)
- Clinical and Commercial Promise of Stem Cell Therapy - Saliat, Inc (6/2015)
- Translation of Cardiovascular Stem Cells - Jinan University (June 2015)