



Phillip C. Yang, MD

Professor of Medicine (Cardiovascular Medicine)

Medicine - Cardiovascular Medicine

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Cardiovascular Medicine Clinic**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Sonia Amador - Administrative Associate

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Bio

BIO

Phillip C. Yang is a 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

- Professor - University Medical Line, Medicine - Cardiovascular Medicine
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Wu Tsai Human Performance Alliance

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, (2012-2020)
- Professor, Stanford Division of Cardiovascular Medicine, (2020- present)

HONORS AND AWARDS

- Translational and Basic Science YIA, Finalist, Senior Author, American College of Cardiology (2020)
- Bissett Lecture, University of Arkansas School of Medicine (2018)
- Melvin Marcus YIA, Finalist, Senior Author, American Heart Association (2018)
- K24 Mid-Career Award in Patient-Oriented Research, National Institute of Health (2016-2021)
- Co-Chair and Organizer, Frontiers in Cardiovascular Medicine, Stanford-Gachon 2nd Annual Session,, Gachon University (2016-2019)
- 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: Cardiovascular Disease, American Board of Internal Medicine (2024)
- Board Certification: Adult Echocardiography, National Board of Echocardiography (2008)
- Fellowship: Stanford University Cardiovascular Medicine Fellowship (1998) CA
- Residency: UCLA Medical Center Internal Medicine (1993) CA
- Medical Education: Yale School Of Medicine (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/yanlab.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

- DCM II Study, Recruiting
- Combination of Mesenchymal and C-kit+ Cardiac Stem Cells as Regenerative Therapy for Heart Failure, Not Recruiting
- DREAM-HF, 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
- Phase I Allogeneic Mesenchymal Stem Cells in Cancer Survivors w/Anthracycline-Induced Cardiomyopathy, Not Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Connor O'Brien

Postdoctoral Research Mentor

Connor O'Brien

Publications

PUBLICATIONS

- **Plasma Extracellular Vesicle Surface Marker Profiling Reveals Immune Cell-Associated Mitochondrial Membrane Potential Alterations in Long COVID and Myalgic Encephalomyelitis/Chronic Fatigue Syndrome** *OPEN FORUM INFECTIOUS DISEASES*
Ikeda, G., Koike-Ieki, M., Inoue, H., Dadhania, A., El Kamari, V., Jagannathan, P., Geng, L. N., Miglis, M. G., Shafer, R. W., Yang, P. C., Bonilla, H. 2026; 13 (5)
- **Plasma Extracellular Vesicle Surface Marker Profiling Reveals Immune Cell-Associated Mitochondrial Membrane Potential Alterations in Long COVID and Myalgic Encephalomyelitis/Chronic Fatigue Syndrome.** *Open forum infectious diseases*
Ikeda, G., Koike-Ieki, M., Inoue, H., Dadhania, A. V., El Kamari, V., Jagannathan, P., Geng, L. N., Miglis, M. G., Shafer, R. W., Yang, P. C., Bonilla, H. F. 2026; 13 (5): ofag209
- **Mitochondrial Transfer: From Bench to Bedside.** *Circulation research*
Ikeda, G., Li, J., Wang, A., Paleru, A. M., Yang, P. C. 2026; 138 (8): e326984
- **Distinct Mechanisms of Mitochondria-rich extracellular vesicle Therapy in Acute vs. Chronic Ischemic Heart Failure: A Single-Cell Transcriptomic Study**
Ikeda, G., Tzng, E., Koike-Ieki, M., Takashima, H., Li, J., Lyons, J., O'Brien, C., Yang, P. LIPPINCOTT WILLIAMS & WILKINS.2025
- **Effect of combined guideline-directed medical therapy and mitochondria-rich extracellular vesicles in a mouse infarct model**
Li, J., Ikeda, G., Tzng, E., Paleru, A., Inoue, H., Matsuura, Y., Koike-Ieki, M., Yang, P. LIPPINCOTT WILLIAMS & WILKINS.2025
- **Can Low Cortisol Predict Long COVID? A Controversial Issue.** *Biomedicines*
Quach, T. C., Wilson, A., Sum-Ping, O., Lomba, S., Geng, L. N., Shafer, R., Miglis, M. G., Yang, P. C., Grossman, L., Ricciardiello, G., Bonilla, H. 2025; 13 (11)
- **Molecular Mechanisms of Exosomes From Human iPSC-Cardiomyocytes and Mesenchymal Stem Cells in Restoring the Injured Myocardium.** *Journal of the American Heart Association*
Tzng, E., Bayardo, N., Ikeda, G., Vadgama, N., Takashima, H., Lyons, J., Ieki, H., Bennett, M., Snyder, M., Wu, J. C., O'Brien, C. G., Yang, P. C. 2025: e037005
- **Linking gut, heart and metabolic health through cholesterol conversion by Akkermansia muciniphila** *CHEMICAL ENGINEERING JOURNAL*
Kazemian, N., Karimianghadim, R., Golzan, S., Nitin, Irungu, J. D. W., Coombs, G. B., Low, J., Little, J. P., Zandberg, W. F., Halperin, F., Bergstrom, K., Guha, A., Hong, C. C., et al 2025; 522
- **POST-COVID-19 VACCINATION AND LONG COVID: INSIGHTS FROM PATIENT REPORTED DATA**
Quach, T. C., Miglis, M., Tian, L., Bonilla, H., Yang, P. C., Paleru, A., Xin, V., Tiwari, A., Shafer, R. W., Geng, L. N. SPRINGER.2025: S589
- **Decoding long COVID-associated cardiovascular dysfunction: Mechanisms, models, and new approach methodologies.** *Journal of molecular and cellular cardiology*
Thomas, D., Yang, P. C., Wu, J. C., Sayed, N. 2025
- **Rapid manufacturing of angiogenic cellular collagen patches for ischemic cardiomyopathy.** *Stem cells translational medicine*
Pfrender, E., Kim, S., Farag, J. A., Yajima, S., Kawai, Y., Kawago, K., Syed, U., Ikeda, G., Ueyama, T., Takashima, H., Dalal, A., Zhu, Y., Ichimura, et al 2025; 14 (9)
- **Digital Biometric Measures in Long COVID: A Secondary Analysis of the STOP-PASC Randomized Clinical Trial.** *JAMA network open*
Gunturkun, F., Hedlin, H., Botzheim, B., Deng, Y., Bonilla, H., Jagannathan, P., Quach, T. C., Kim, S., Lin, M., O'Riordan, G., Tzeng, H., Adamowicz, L., Demanuele, et al 2025; 8 (8): e2526901

- **Correction: Chronic autonomic symptom burden in long#COVID: a follow#up cohort study.** *Clinical autonomic research : official journal of the Clinical Autonomic Research Society*
Eastin, E. F., Machnik, J. V., Stiles, L. E., Larsen, N. W., Seliger, J., Geng, L. N., Bonilla, H., Yang, P. C., Miglis, M. G.
2025
- **Evaluating Long-Term Autonomic Dysfunction and Functional Impacts of Long COVID: A Follow-Up Study (P1-7.004).** *Neurology*
Eastin, E., Machnik, J., Larsen, N., Stiles, L., Seliger, J., Geng, L., Bonilla, H., Yang, P., Miglis, M.
2025; 104 (7_Supplement_1): 4290
- **AI-driven prediction of cardio-oncology biomarkers through protein corona analysis** *CHEMICAL ENGINEERING JOURNAL*
Guha, A., Sadeghi, S., Kunhiraman, H., Fang, F., Wang, Q., Rafieioskouei, A., Grumelot, S., Gharibi, H., Saei, A., Sayadi, M., Weintraub, N. L., Horibata, S., Yang, et al
2025; 509
- **AI-Driven Prediction of Cardio-Oncology Biomarkers Through Protein Corona Analysis.** *Chemical engineering journal (Lausanne, Switzerland : 1996)*
Guha, A., Sadeghi, S. A., Kunhiraman, H. H., Fang, F., Wang, Q., Rafieioskouei, A., Grumelot, S., Gharibi, H., Saei, A. A., Sayadi, M., Weintraub, N. L., Horibata, S., Yang, et al
2025; 509
- **A Novel Transaortic Pulsatile Pump to Unload the Left Ventricle.** *JACC. Basic to translational science*
Kim, J., Rambarat, P., Levin, A., Yang, P. C., Teuteberg, J., Seto, A., Kern, M., Greenberg, B., Patel, M., Fudim, M.
2025; 10 (3): 270-272
- **Chronic autonomic symptom burden in long-COVID: a follow-up cohort study.** *Clinical autonomic research : official journal of the Clinical Autonomic Research Society*
Eastin, E. F., Machnik, J. V., Stiles, L. E., Larsen, N. W., Seliger, J., Geng, L. N., Bonilla, H., Yang, P. C., Miglis, M. G.
2025
- **Can Low Cortisol Predict Long COVID? A Controversial Issue** *Biomedicines*
Quach, T. C., Wilson, A., Sum-Ping, O., Lomba, S., Geng, L. N., Shafer, R., Miglis, M. G., Yang, P. C., Grossman, L., Ricciardiello, G., Bonilla, H.
2025; 13 (11): 2636
- **Post-COVID-19 Vaccination and Long COVID: Insights from Patient-Reported Data.** *Vaccines*
Quach, T. C., Miglis, M. G., Tian, L., Bonilla, H., Yang, P. C., Grossman, L., Paleru, A., Xin, V., Tiwari, A., Shafer, R. W., Geng, L. N.
2024; 12 (12)
- **Correction: Cloud-Based Machine Learning Platform to Predict Clinical Outcomes at Home for Patients With Cardiovascular Conditions Discharged From Hospital: Clinical Trial.** *JMIR cardio*
Yang, P. C., Jha, A., Xu, W., Song, Z., Jamp, P., Teuteberg, J. J.
2024; 8: e68825
- **Post-COVID-19 Vaccination and Long COVID: Insights from Patient-Reported Data** *VACCINES*
Quach, T. C., Miglis, M. G., Tian, L., Bonilla, H., Yang, P. C., Grossman, L., Paleru, A., Xin, V., Tiwari, A., Shafer, R. W., Geng, L. N.
2024; 12 (12)
- **A novel label-free biosensor for myocardial ischemia biomarker detection via CRISPR/12a.** *Biosensors & bioelectronics*
Liu, C., Liu, Q., Chen, X., Guo, M., Chen, Z., Zhao, J., Chen, H., Guo, S., Cen, H., Yao, G., Chen, L., Wang, Y., Yang, et al
2024; 270: 116954
- **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
- **Nirmatrelvir-Ritonavir and Symptoms in Adults With Postacute Sequelae of SARS-CoV-2 Infection: The STOP-PASC Randomized Clinical Trial.** *JAMA internal medicine*
Geng, L. N., Bonilla, H., Hedlin, H., Jacobson, K. B., Tian, L., Jagannathan, P., Yang, P. C., Subramanian, A. K., Liang, J. W., Shen, S., Deng, Y., Shaw, B. J., Botzheim, et al
2024

- **CARDIODIAGNOSTIC FINDINGS IN PATIENTS WITH CHEST PAIN IN A LONGITUDINAL POST-ACUTE COVID SYNDROME CLINIC**
Li, J., Quach, T., Tiwari, A., Cui, J., Linda, G., Saigal, K., Yang, P. C.
ELSEVIER SCIENCE INC.2024: 660
- **CARDIODIAGNOSTIC FINDINGS IN PATIENTS WITH CHEST PAIN IN A LONGITUDINAL POST-ACUTE COVID SYNDROME CLINIC**
Li, J., Quach, T., Tiwari, A., Cui, J., Linda, G., Saigal, K., Yang, P. C.
ELSEVIER SCIENCE INC.2024: 660
- **Cloud-Based Machine Learning Platform to Predict Clinical Outcomes at Home for Patients With Cardiovascular Conditions Discharged From Hospital: Clinical Trial.** *JMIR cardio*
Yang, P. C., Jha, A., Xu, W., Song, Z., Jamp, P., Teuteberg, J. J.
2024; 8: e45130
- **New Alcohol Sensitivity in Patients With Post-acute Sequelae of SARS-CoV-2 (PASC): A Case Series.** *Cureus*
Eastin, E. F., Tiwari, A., Quach, T. C., Bonilla, H. F., Miglis, M. G., Yang, P. C., Geng, L. N.
2023; 15 (12): e51286
- **Current challenges surrounding exosome treatments.** *Extracellular vesicle*
Tzng, E., Bayardo, N., Yang, P. C.
2023; 2: 100023
- **Sex Influences the Safety and Therapeutic Efficacy of Cardiac Nanomedicine Technologies.** *Small (Weinheim an der Bergstrasse, Germany)*
Lin, Z., Jiwani, Z., Serpooshan, V., Aghaverdi, H., Yang, P. C., Aguirre, A., Wu, J. C., Mahmoudi, M.
2023: e2305940
- **Anti-breast cancer-induced cardiomyopathy: Mechanisms and future directions.** *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*
Liu, C., Chen, H., Guo, S., Liu, Q., Chen, Z., Huang, H., Zhao, Q., Li, L., Cen, H., Jiang, Z., Luo, Q., Chen, X., Zhao, et al
2023; 166: 115373
- **Myalgic Encephalomyelitis/Chronic Fatigue Syndrome is common in post-acute sequelae of SARS-CoV-2 infection (PASC): Results from a post-COVID-19 multidisciplinary clinic.** *Frontiers in neurology*
Bonilla, H., Quach, T. C., Tiwari, A., Bonilla, A. E., Miglis, M., Yang, P. C., Eggert, L. E., Sharifi, H., Horomanski, A., Subramanian, A., Smirnoff, L., Simpson, N., Halawi, et al
2023; 14: 1090747
- **Microvascular Obstruction Identifies a Subgroup of Patients Who Benefit from Stem Cell Therapy Following ST-Elevation Myocardial Infarction.** *American heart journal*
Davidson, S. J., Roncalli, J., Surder, D., Corti, R., Chugh, A. R., Yang, P. C., Henry, T. D., Stanberry, L., Lemarchand, P., Beregi, J. P., Traverse, J. H.
2023
- **Extracellular vesicle-derived circCEBPZOS attenuates postmyocardial infarction remodeling by promoting angiogenesis via the miR-1178-3p/PDPK1 axis.** *Communications biology*
Yu, L., Liang, Y., Zhang, M., Yang, P. C., Hinek, A., Mao, S.
2023; 6 (1): 133
- **Current challenges and future directions for engineering extracellular vesicles for heart, lung, blood and sleep diseases.** *Journal of extracellular vesicles*
Li, G., Chen, T., Dahlman, J., Eniola-Adefeso, L., Ghiran, I. C., Kurre, P., Lam, W. A., Lang, J. K., Marbán, E., Martín, P., Momma, S., Moos, M., Nelson, et al
2023; 12 (2): e12305
- **High-resolution, respiratory-resolved coronary MRA using a Phyllotaxis-reordered variable-density 3D cones trajectory.** *Magnetic resonance imaging*
Koundinyan, S. P., Baron, C. A., Malavé, M. O., Ong, F., Addy, N. O., Cheng, J. Y., Yang, P. C., Hu, B. S., Nishimura, D. G.
2023
- **Angiogenic stem cell delivery platform to augment post-infarction neovasculature and reverse ventricular remodeling.** *Scientific reports*
Shin, H. S., Thakore, A., Tada, Y., Pedroza, A. J., Ikeda, G., Chen, I. Y., Chan, D., Jaatinen, K. J., Yajima, S., Pfrender, E. M., Kawamura, M., Yang, P. C., Wu, et al
2022; 12 (1): 17605

- **Spinning-enabled wireless amphibious origami millirobot.** *Nature communications*
Ze, Q., Wu, S., Dai, J., Leanza, S., Ikeda, G., Yang, P. C., Iaccarino, G., Zhao, R. R.
2022; 13 (1): 3118
- **Regenerating Endothelium and Restoring Microvascular Endothelial Function.** *JACC. Cardiovascular imaging*
Hare, J. M., Yang, P.
2022; 15 (5): 825-827
- **Stem Cell and Exosome Therapy in Pulmonary Hypertension.** *Korean circulation journal*
Oh, S., Jung, J., Ahn, K., Jang, A. Y., Byun, K., Yang, P. C., Chung, W.
2022; 52 (2): 110-122
- **Recommendations for Nomenclature and Definition Of Cell Products Intended for Human Cardiovascular Use.** *Cardiovascular research*
Taylor, D. A., Chacon-Alberty, L., Sampaio, L. C., Del Hierro, M. G., Perin, E. C., Mesquita, F. C., Henry, T. D., Traverse, J. H., Pepine, C. J., Hare, J. M., Murphy, M. P., Yang, P. C., March, et al
2021
- **Dual Contrast Manganese-Enhanced MRI and Gadolinium Delayed-Enhanced MRI Detect Heterogenous Myocardial Viability in Ischemic Cardiomyopathy** *JACC-CARDIOVASCULAR IMAGING*
Tada, Y., Santoso, M. R., Heidary, S., Sano, H., Tachibana, A., Matsuura, Y., Harnish, P., Yang, P. C.
2021; 14 (7): 1474-1476
- **EXOSOMES FROM HUMAN INDUCED PLURIPOTENT STEM CELL-DERIVED CARDIOMYOCYTES (ICMS) AND MESENCHYMAL STEM CELLS (MSCS) RECOVER HEART FUNCTION IN PORCINE ACUTE MYOCARDIAL INFARCTION (MI) MODEL**
Bayardo, N., O'Brien, C., Vaskova, E., Lyons, J., Tada, Y., Yang, P.
ELSEVIER SCIENCE INC.2021: 19
- **MIR-20B AND-92A ENHANCES CARDIOMYOCYTE CELL CYCLE RE-ENTRY AND PROLIFERATION IN THE ISCHEMIC MYOCARDIUM**
Jung, J., Ikeda, G., Tada, Y., Yang, P.
ELSEVIER SCIENCE INC.2021: 175
- **A Phase II Study of Autologous Mesenchymal Stromal Cells and c-kit Positive Cardiac Cells, Alone or in Combination, in Patients with Ischemic Heart Failure: The CCTRN CONCERT-HF Trial.** *European journal of heart failure*
Bolli, R., Mitrani, R. D., Hare, J. M., Pepine, C. J., Perin, E. C., Willerson, J. T., Traverse, J. H., Henry, T. D., Yang, P. C., Murphy, M. P., March, K. L., Schulman, I. H., Ikram, et al
2021
- **Precise Measurement of Physical Activities and High-Impact Motion: Feasibility of Smart Activity Sensor System** *IEEE SENSORS JOURNAL*
Liu, H., Chuang, Y., Liu, C., Yang, P. C., Fuh, C.
2021; 21 (1): 568–80
- **miR-106a-363 cluster in extracellular vesicles promotes endogenous myocardial repair via Notch3 pathway in ischemic heart injury.** *Basic research in cardiology*
Jung, J. H., Ikeda, G. n., Tada, Y. n., von Bornstädt, D. n., Santoso, M. R., Wahlquist, C. n., Rhee, S. n., Jeon, Y. J., Yu, A. C., O'brien, C. G., Red-Horse, K. n., Appel, E. A., Mercola, et al
2021; 116 (1): 19
- **Mitochondria-Rich Extracellular Vesicles From Autologous Stem Cell-Derived Cardiomyocytes Restore Energetics of Ischemic Myocardium.** *Journal of the American College of Cardiology*
Ikeda, G. n., Santoso, M. R., Tada, Y. n., Li, A. M., Vaskova, E. n., Jung, J. H., O'Brien, C. n., Egan, E. n., Ye, J. n., Yang, P. C.
2021; 77 (8): 1073–88
- **Comparative analysis on the anti-inflammatory/immune effect of mesenchymal stem cell therapy for the treatment of pulmonary arterial hypertension.** *Scientific reports*
Oh, S. n., Jang, A. Y., Chae, S. n., Choi, S. n., Moon, J. n., Kim, M. n., Spiekerkoetter, E. n., Zamanian, R. T., Yang, P. C., Hwang, D. n., Byun, K. n., Chung, W. J.
2021; 11 (1): 2012
- **miR-106a-363 cluster in extracellular vesicles promotes endogenous myocardial repair via Notch3 pathway in ischemic heart injury.** *Basic research in cardiology*

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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 - Saliati, Inc (6/2015)
- Translation of Cardiovascular Stem Cells - Jinan University (June 2015)