



Joseph C. Wu

Director, Stanford Cardiovascular Institute, Simon H. Stertzler, MD, Professor and Professor of Radiology

Medicine - Cardiovascular Medicine

CLINICAL OFFICES

- **Cardiovascular Medicine**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Joseph C. Wu, MD, PhD is Director of the Stanford Cardiovascular Institute (<http://cvi.stanford.edu/>) and the Simon H. Stertzler, MD, Professor of Medicine and Radiology. Dr. Wu received his medical degree from Yale. He completed his medicine internship, residency and cardiology fellowship training at UCLA followed by a PhD (Molecular & Medical Pharmacology) in the UCLA STAR program. His clinical activities involve adult congenital heart disease and cardiovascular imaging.

Dr. Wu has published >350 manuscripts. His lab works on biological mechanisms of patient-specific and disease-specific induced pluripotent stem cells (iPSCs). The main goals are to (i) understand cardiovascular disease mechanisms, (ii) accelerate drug discovery, (iii) develop “clinical trial in a dish” concept, and (iv) implement precision medicine for prevention and treatment of cardiovascular patients. His lab uses a combination of genomics, stem cells, cellular & molecular biology, physiological testing, and molecular imaging technologies to better understand molecular and pathological processes.

Dr. Wu has received several awards, including the Burroughs Wellcome Foundation (BWF) Career Award in Medical Sciences, BWF Innovation in Regulatory Science Award, American Heart Association (AHA) Innovative Research Award, AHA Established Investigator Award, AHA Merit Award, National Institute of Health (NIH) Director’s New Innovator Award, NIH Roadmap Transformative Award, and Presidential Early Career Award for Scientists and Engineers (PECASE) given out by President Obama. He is on the editorial board of Journal Clinical Investigation, Circulation Research, Circulation Cardiovascular Imaging, Human Gene Therapy, Molecular Therapy, Stem Cell Research, Physiological Genomics, Scientific Reports, and Nature Review Cardiology

Dr. Wu is a member of the Association of University Cardiologists (AUC), American Society for Clinical Investigation (ASCI), and Association of American Physicians (AAP). Dr. Wu currently serves on the Scientific Advisory Board for the Keystone Symposia (2014-2020), FDA Cellular, Tissue, and Gene Therapies Advisory Committee (2016-2020), AHA National Board of Directors (2017-2021), Chair of the AHA Research Committee (2017-2021), and Chair of the AHA Basic Cardiovascular Science Council (2018-2020).

CLINICAL FOCUS

- Congenital Heart Disease (Adult)

- Cardiovascular Disease
- Cardiovascular Imaging

ACADEMIC APPOINTMENTS

- Professor, Medicine - Cardiovascular Medicine
- Professor, Radiology
- Member, Bio-X
- Director, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Faculty Fellow, Stanford ChEM-H

ADMINISTRATIVE APPOINTMENTS

- Director, Stanford Cardiovascular Institute, (2013- present)

HONORS AND AWARDS

- Highly Cited Researcher, Clarivate Analytics (2108)
- Best Manuscript Award, Circulation Research (2018)
- Distinguished Scientist Award, American Heart Association (2018)
- Elected, American Institute for Medical and Biological Engineering (2018)
- Best Manuscript Award, Circulation Research (2017)
- Merit Award, American Heart Association (2017)
- Elected, Association of American Physicians (AAP) (2015)
- Innovation in Regulatory Science Award, Burroughs Wellcome Foundation (2015)
- Joseph A. Vita Award, American Heart Association (2015)
- Council Member, American Society Clinical Investigation (2014-2017)
- Distinguished Investigator Award, Academy of Radiology Research (2014)
- Established Investigator Award, American Heart Association (2013)
- Best Manuscript Award, Circulation Research (2013)
- Elected, Association of University Cardiologists (AUC) (2013)
- Elected, American Society Clinical Investigation (ASCI) (2012)
- Bernard and Joan Marshall Research Excellence Prize, British Society for Cardiovascular Research (2011)
- Fellow American Heart Association, FAHA (2010)
- Presidential Early Career Award for Scientists and Engineers (PECASE), White House Office of Technology (2010)
- NIH Roadmap Transformative Award, National Institutes of Health (2009-2014)
- Douglas P. Zipes Distinguished Young Scientist Award, American College of Cardiology (2009)
- National Innovative Research Grant, American Heart Association (2009)
- William Parmley Prize, Journal American College of Cardiology (2009)
- NIH Director's New Innovator Award, National Institutes of Health (2008-2013)
- Baxter Faculty Scholar Award, Baxter Foundation (2008)
- Division of Cardiology Teaching Award (Innovation), Stanford School of Medicine (2008)

- Edward Mallinckrodt Jr. Foundation, Junior Faculty Award (2008)
- Career Award for Medical Scientists, Burroughs Wellcome Foundation (2007-2012)
- Best Basic Science Paper, Circulation (2007)
- Career Award in Cardiovascular Imaging, American College Cardiology/General Electrics (2006-2008)
- Fellow American College of Cardiology, FACC (2006)
- K08 Mentored Clinician Scientist Award, National Institutes of Health (2005-2008)
- GSK Cardiovascular Young Investigator Award, GlaxoSmithKline (2003-2005)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chair, AHA Research Committee (2017 - present)
- Editorial Board, Nature Review Cardiology (2017 - present)
- Member, AHA National Board of Directors (2017 - present)
- Member, Cellular, Tissue, and Gene Therapies Advisory Committee (FDA) (2017 - present)
- Editorial Board, Stem Cell Reviews and Reports (2016 - present)
- Associate Editor, Circulation Research (2015 - present)
- Editorial Board, Current Cardiovascular Imaging Reports (2015 - present)
- Editorial Board, Scientific Report (2015 - present)
- Editorial Board, Current Protocols in Stem Cell Research (2015 - 2017)
- Editorial Board, Cytotherapy (2014 - present)
- Scientific Advisory Board Member, Keystone Symposia (2014 - present)
- Editorial Board, Physiological Genomics (2013 - present)
- Editorial Board, Journal Clinical Investigation (2012 - present)
- Editorial Board, Molecular Therapy (2011 - present)
- Editorial Board, Stem Cell Research (2011 - present)
- Editorial Board, Human Gene Therapy (2009 - present)
- Editorial Board, Journal Nuclear Cardiology (2009 - 2018)
- Editorial Board, Circulation: Cardiovascular Imaging (2008 - present)
- Editorial Board, JACC: Cardiovascular Imaging (2008 - 2018)

PROFESSIONAL EDUCATION

- Fellowship: UCLA Medical Center Radiology Fellowship (2004) CA
- Residency: UCLA Medical Center Radiology Fellowship (1999) CA
- Medical Education: Yale School Of Medicine Office of Student Affairs (1997) CT
- MD, Yale University School of Medicine , Medicine (1997)
- PhD, UCLA , Molecular & Medical Pharmacology (2004)

LINKS

- Joseph Wu Lab Website: <http://med.stanford.edu/wulab.html>
- Stanford Cardiovascular Institute: <http://cvi.stanford.edu/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My lab works on biological mechanisms of adult stem cells, embryonic stem cells, and induced pluripotent stem cells. We use a combination of gene profiling, tissue engineering, physiological testing, and molecular imaging technologies to better understand stem cell biology in vitro and in vivo. For adult stem cells, we are interested in monitoring stem cell survival, proliferation, and differentiation. For ESC, we are currently studying their tumorigenicity, immunogenicity, and differentiation for regenerative medicine. For iPSC, we are focusing on disease modeling, drug discovery, and personalized medicine.

CLINICAL TRIALS

- An Efficacy, Safety and Tolerability Study of Ixmyelocel-T Administered Via Transendocardial Catheter-based Injections to Subjects With Heart Failure Due to Ischemic Dilated Cardiomyopathy (IDCM), Recruiting
- NBS10 (Also Known as AMR-001) Versus Placebo Post ST Segment Elevation Myocardial Infarction, Recruiting

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Stephen Chang

Postdoctoral Faculty Sponsor

Nadjet Belbachir, Mark Chandy, Sangkyun Cho, Hongchao Guo, Edward Lau, Chun Liu, Yu Liu, Olfat MALAK, Ning Ma, Masataka Nishiga, Xiaoming Ouyang, David Paik, Ilanit Ronen Itzhaki, Mengcheng Shen, Dilip Thomas, Lei Tian, Chengyi Tu, Lin Wang, Huaxiao Yang, Hao Zhang, Xiaolan Zhang

Postdoctoral Research Mentor

Ilanit Ronen Itzhaki, Xiaolan Zhang

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Bioengineering (Phd Program)
- Cardiovascular Medicine (Fellowship Program)
- Immunology (Phd Program)

Publications

PUBLICATIONS

- **Autologous iPSC-Based Vaccines Elicit Anti-tumor Responses In Vivo.** *Cell stem cell*
Kooreman, N. G., Kim, Y., de Almeida, P. E., Termglinchan, V., Diecke, S., Shao, N. Y., Wei, T. T., Yi, H., Dey, D., Nelakanti, R., Brouwer, T. P., Paik, D. T., Sagiv-Barfi, et al
2018
- **SETD7 Drives Cardiac Lineage Commitment through Stage-Specific Transcriptional Activation.** *Cell stem cell*
Lee, J., Shao, N. Y., Paik, D. T., Wu, H., Guo, H., Termglinchan, V., Churko, J. M., Kim, Y., Kitani, T., Zhao, M. T., Zhang, Y., Wilson, K. D., Karakikes, et al
2018; 22 (3): 428–44.e5
- **Global position paper on cardiovascular regenerative medicine: Scientific statement of the transnational alliance for regenerative therapies in cardiovascular syndromes (TACTICS) international group for the comprehensive cardiovascular application of regenerative medicinal products.** *European heart journal*
Fernández-Avilés, F., Sanz-Ruiz, R., Climent, A. M., Badimon, L., Bolli, R., Charron, D., Fuster, V., Janssens, S., Kastrup, J., Kim, H., Lüscher, T. F., Martin, J. F., Menasché, et al
2017

- **High-throughput screening of tyrosine kinase inhibitor cardiotoxicity with human induced pluripotent stem cells.** *Science translational medicine*
Sharma, A., Burrridge, P. W., McKeithan, W. L., Serrano, R., Shukla, P., Sayed, N., Churko, J. M., Kitani, T., Wu, H., Holmström, A., Matsa, E., Zhang, Y., Kumar, et al
2017; 9 (377)
- **Molecular and functional resemblance of differentiated cells derived from isogenic human iPSCs and SCNT-derived ESCs.** *Proceedings of the National Academy of Sciences of the United States of America*
Zhao, M. T., Chen, H., Liu, Q., Shao, N. Y., Sayed, N., Wo, H. T., Zhang, J. Z., Ong, S. G., Liu, C., Kim, Y., Yang, H., Chour, T., Ma, et al
2017
- **iPSC-derived cardiomyocytes reveal abnormal TGF- β signalling in left ventricular non-compaction cardiomyopathy.** *Nature cell biology*
Kodo, K., Ong, S., Jahanbani, F., Termglinchan, V., Hirono, K., Inanloorahatloo, K., Ebert, A. D., Shukla, P., Abilez, O. J., Churko, J. M., Karakikes, I., Jung, G., Ichida, et al
2016; 18 (10): 1031-1042
- **A Tension-Based Model Distinguishes Hypertrophic versus Dilated Cardiomyopathy** *CELL*
Davis, J., Davis, L. C., Correll, R. N., Makarewich, C. A., Schwaneckamp, J. A., Moussavi-Harami, F., Wang, D., York, A. J., Wu, H., Houser, S. R., Seidman, C. E., Seidman, J. G., Regnier, et al
2016; 165 (5): 1147-1159
- **Human induced pluripotent stem cell-derived cardiomyocytes recapitulate the predilection of breast cancer patients to doxorubicin-induced cardiotoxicity** *NATURE MEDICINE*
Burrridge, P. W., Li, Y. F., Matsa, E., Wu, H., Ong, S., Sharma, A., Holmstrom, A., Chang, A. C., Coronado, M. J., Ebert, A. D., Knowles, J. W., Telli, M. L., Witteles, et al
2016; 22 (5): 547-556
- **Induced pluripotent stem cells.** *JAMA*
Wilson, K. D., Wu, J. C.
2015; 313 (16): 1613-1614
- **Characterization of the molecular mechanisms underlying increased ischemic damage in the aldehyde dehydrogenase 2 genetic polymorphism using a human induced pluripotent stem cell model system** *SCIENCE TRANSLATIONAL MEDICINE*
Ebert, A. D., Kodo, K., Liang, P., Wu, H., Huber, B. C., Riegler, J., Churko, J., Lee, J., de Almeida, P., Lan, F., Diecke, S., Burrridge, P. W., Gold, et al
2014; 6 (255)
- **Chemically defined generation of human cardiomyocytes.** *Nature methods*
Burrridge, P. W., Matsa, E., Shukla, P., Lin, Z. C., Churko, J. M., Ebert, A. D., Lan, F., Diecke, S., Huber, B., Mordwinkin, N. M., Plews, J. R., Abilez, O. J., Cui, et al
2014; 11 (8): 855-860
- **Global Epigenomic Reconfiguration During Mammalian Brain Development.** *Science (New York, N.Y.)*
Lister, R., Mukamel, E. A., Nery, J. R., Urich, M., Puddifoot, C. A., Johnson, N. D., Lucero, J., Huang, Y., Dwork, A. J., Schultz, M. D., Yu, M., Tonti-Filippini, J., Heyn, et al
2013
- **Dyslipidaemia: In vivo genome editing of ANGPTL3: a therapy for atherosclerosis?** *Nature reviews. Cardiology*
Rhee, J., Wu, J. C.
2018; 15 (5): 259-60
- **Omics, Big Data, and Precision Medicine in Cardiovascular Sciences.** *Circulation research*
Lau, E., Wu, J. C.
2018; 122 (9): 1165-68
- **Applications of genetically engineered human pluripotent stem cell reporters in cardiac stem cell biology.** *Current opinion in biotechnology*
Zhang, J. Z., Guo, H., Wu, J. C.
2018; 52: 66-73
- **Induced pluripotent stem cells as a biopharmaceutical factory for extracellular vesicles.** *European heart journal*
Nishiga, M., Guo, H., Wu, J. C.
2018

- **Prolonged survival of transplanted stem cells after ischaemic injury via the slow release of pro-survival peptides from a collagen matrix** *Nature Biomedical Engineering*
Lee, A. S., Inayathullah, ., Lijkwan, . A., Zhao, X., Sun, W., Park, S., Hong, W. X., Parekh, M. B., Malkovskiy, A. V., Lau, E., Qin, X., Pothineni, . R., et al
2018; 2 (2): 104–13
- **Induced Pluripotent Stem Cells for Cardiovascular Disease Modeling and Precision Medicine A Scientific Statement From the American Heart Association** *CIRCULATION-CARDIOVASCULAR GENETICS*
Musunuru, K., Sheikh, F., Gupta, R. M., Houser, S. R., Maher, K. O., Milan, D. J., Terzic, A., Wu, J. C., Amer Heart Assoc Council, Council Cardiovasc Dis Young, Council Cardiovasc Stroke Nursing
2018; 11 (1)
- **Human Induced Pluripotent Stem Cell (hiPSC)-Derived Cells to Assess Drug Cardiotoxicity: Opportunities and Problems.** *Annual review of pharmacology and toxicology*
Magdy, T., Schuldt, A. J., Wu, J. C., Bernstein, D., Burrige, P. W.
2018; 58: 83–103
- **Myocardial perfusion imaging: Lessons learned and work to be done-update.** *Journal of nuclear cardiology : official publication of the American Society of Nuclear Cardiology*
Iskandrian, A. E., Dilsizian, V., Garcia, E. V., Beanlands, R. S., Cerqueira, M., Soman, P., Berman, D. S., Cuocolo, A., Einstein, A. J., Morgan, C. J., Hage, F. G., Schelbert, H. R., Bax, et al
2018; 25 (1): 39–52
- **Cardiac Cell Cycle Activation as a Strategy to Improve iPSC-Derived Cardiomyocyte Therapy.** *Circulation research*
Rhee, J. W., Wu, J. C.
2018; 122 (1): 14–16
- **Global Overview of the Transnational Alliance for Regenerative Therapies in Cardiovascular Syndromes (TACTICS) Recommendations: A Comprehensive Series of Challenges and Priorities of Cardiovascular Regenerative Medicine.** *Circulation research*
Fernández-Avilés, F., Sanz-Ruiz, R., Climent, A. M., Badimon, L., Bolli, R., Charron, D., Fuster, V., Janssens, S., Kastrup, J., Kim, H. S., Lüscher, T. F., Martin, J. F., Menasché, et al
2018; 122 (2): 199–201
- **Endothelial deletion of Ino80 disrupts coronary angiogenesis and causes congenital heart disease.** *Nature communications*
Rhee, S., Chung, J. I., King, D. A., D'amato, G., Paik, D. T., Duan, A., Chang, A., Nagelberg, D., Sharma, B., Jeong, Y., Diehn, M., Wu, J. C., Morrison, et al
2018; 9 (1): 368
- **Cancer therapy-induced cardiomyopathy: can human induced pluripotent stem cell modelling help prevent it?** *European heart journal*
Stack, J. P., Moslehi, J., Sayed, N., Wu, J. C.
2018
- **Comparison of Non-human Primate versus Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes for Treatment of Myocardial Infarction.** *Stem cell reports*
Zhao, X., Chen, H., Xiao, D., Yang, H., Itzhaki, I., Qin, X., Chour, T., Aguirre, A., Lehmann, K., Kim, Y., Shukla, P., Holmström, A., Zhang, et al
2018; 10 (2): 422–35
- **Mining Exosomal MicroRNAs from Human-Induced Pluripotent Stem Cells-Derived Cardiomyocytes for Cardiac Regeneration.** *Methods in molecular biology (Clifton, N.J.)*
Ong, S. G., Lee, W. H., Zhou, Y., Wu, J. C.
2018; 1733: 127–36
- **Radiolabeled Duramycin: Promising Translational Imaging of Myocardial Apoptosis.** *JACC. Cardiovascular imaging*
Wu, J. C., Qin, X., Neofytou, E.
2018
- **Modeling human diseases with induced pluripotent stem cells: from 2D to 3D and beyond.** *Development (Cambridge, England)*
Liu, C., Oikonomopoulos, A., Sayed, N., Wu, J. C.
2018; 145 (5)
- **Bioacoustic-enabled patterning of human iPSC-derived cardiomyocytes into 3D cardiac tissue** *BIOMATERIALS*
Serpooshan, V., Chen, P., Wu, H., Lee, S., Sharma, A., Hu, D. A., Venkatraman, S., Ganesan, A. V., Usta, O. B., Yarmush, M., Yang, F., Wu, J. C., Demirci, et al
2017; 131: 47-57

- **Contractile force generation by 3D hiPSC-derived cardiac tissues is enhanced by rapid establishment of cellular interconnection in matrix with muscle-mimicking stiffness** *BIOMATERIALS*
Lee, S., Serpooshan, V., Tong, X., Venkatraman, S., Lee, M., Lee, J., Chirikian, O., Wu, J. C., Wu, S. M., Yang, F.
2017; 131: 111-120
- **F-Fluoromaltotriose: A Second Generation PET Tracer Targeting the Maltodextrin Transporter in Bacteria.** *Journal of nuclear medicine*
Gowrishankar, G., Hardy, J., Wardak, M., Namavari, M., Reeves, R., Neofytou, E., Srinivasan, A., Wu, J., Contag, C., Gambhir, S.
2017
- **3-Dimensionally Printed, Native-Like Scaffolds for Myocardial Tissue Engineering** *CIRCULATION RESEARCH*
Wnorowski, A., Wu, J. C.
2017; 120 (8): 1224-1226
- **Patient-Specific iPSC-Derived Endothelial Cells Uncover Pathways that Protect against Pulmonary Hypertension in BMPR2 Mutation Carriers** *CELL STEM CELL*
Gu, M., Shao, N., Sa, S., Li, D., Termglinchan, V., Ameen, M., Karakikes, I., Sosa, G., Grubert, F., Lee, J., Cao, A., Taylor, S., Ma, et al
2017; 20 (4): 490-?
- **Induced Pluripotent Stem Cell Model of Pulmonary Arterial Hypertension Reveals Novel Gene Expression and Patient Specificity** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Sa, S., Gu, M., Chappe, J., Shao, N., Ameen, M., Elliott, K. A., Li, D., Grubert, F., Li, C. G., Taylor, S., Cao, A., Ma, Y., Fong, et al
2017; 195 (7): 930-941
- **Partial Reprogramming of Pluripotent Stem Cell-Derived Cardiomyocytes into Neurons** *SCIENTIFIC REPORTS*
Chuang, W., Sharma, A., Shukla, P., Li, G., Mall, M., Rajarajan, K., Abilez, O. J., Hamaguchi, R., Wu, J. C., Wernig, M., Wu, S. M.
2017; 7
- **Human AML-iPSCs Reacquire Leukemic Properties after Differentiation and Model Clonal Variation of Disease.** *Cell stem cell*
Chao, M. P., Gentles, A. J., Chatterjee, S., Lan, F., Reinisch, A., Corces, M. R., Xavy, S., Shen, J., Haag, D., Chanda, S., Sinha, R., Morganti, R. M., Nishimura, et al
2017; 20 (3): 329-344 e7
- **A Comprehensive TALEN-Based Knockout Library for Generating Human Induced Pluripotent Stem Cell-Based Models for Cardiovascular Diseases.** *Circulation research*
Karakikes, I., Termglinchan, V., Cepeda, D. A., Lee, J., Diecke, S., Hendel, A., Itzhaki, I., Ameen, M., Shrestha, R., Wu, H., Ma, N., Shao, N., Seeger, et al
2017
- **Nondestructive nanostraw intracellular sampling for longitudinal cell monitoring.** *Proceedings of the National Academy of Sciences of the United States of America*
Cao, Y., Hjort, M., Chen, H., Birey, F., Leal-Ortiz, S. A., Han, C. M., Santiago, J. G., Pasca, S. P., Wu, J. C., Melosh, N. A.
2017
- **Induced pluripotent stem cell technology: a decade of progress** *NATURE REVIEWS DRUG DISCOVERY*
Shi, Y., Inoue, H., Wu, J. C., Yamanaka, S.
2017; 16 (2): 115-130
- **Efficient Genome Editing in Induced Pluripotent Stem Cells with Engineered Nucleases In Vitro.** *Methods in molecular biology (Clifton, N.J.)*
Termglinchan, V., Seeger, T., Chen, C., Wu, J. C., Karakikes, I.
2017; 1521: 55-68
- **Multiscale technologies for treatment of ischemic cardiomyopathy** *Nature Nanotechnology*
Mahmoudi, M., Yu, M., Serpooshan, V., Wu, J. C., Langer, R., Lee, R. T., Karp, J. M., Farokhzad, O. C.
2017; 12: 845-855
- **Imaging Cardiac Stem Cell Therapy** *Cardiac Regeneration*
Qin, X., Chen, I. Y., Wu, J. C.
Springer.2017: 241-258
- **Incremental value of right heart metrics and exercise performance to well-validated risk scores in dilated cardiomyopathy** *European Heart Journal - Cardiovascular Imaging*

Moneghetti, K. J., Giraldeau, G., Wheeler, M. T., Kobayashi, Y., Vrtovec, B., Boulate, D., Kuznetsova, T., Schnittger, I., Wu, J. C., Myers, J., Ashely, E., Haddad, F.
2017

- **Photoacoustic Imaging of Embryonic Stem Cell-Derived Cardiomyocytes in Living Hearts with Ultrasensitive Semiconducting Polymer Nanoparticles** *Advanced Functional Materials*
Qin, X., Chen, H., Yang, H., Wu, H., Zhao, X., Wang, H., Chour, T., Neofytou, E., Ding, D., Daldrup-Link, H., Heilshorn, S. C., Li, K., Wu, et al
2017
- **External Beam Radiation Therapy for the Treatment of Human Pluripotent Stem Cell-Derived Teratomas.** *Stem cells (Dayton, Ohio)*
Lee, A. S., Tang, C., Hong, W. X., Park, S., Bazalova, M., Nelson, G., Sanchez-Freire, V., Bakerman, I., Zhang, W., Neofytou, E., Connolly, A. J., Chan, C. K., Graves, et al
2017
- **Patient-Specific Induced Pluripotent Stem Cell-Based Disease Model for Pathogenesis Studies and Clinical Pharmacotherapy.** *Circulation. Arrhythmia and electrophysiology*
Li, Y., Sallam, K., Schwartz, P. J., Wu, J. C.
2017; 10 (6)
- **Autoantibody profiling on a plasmonic nano-gold chip for the early detection of hypertensive heart disease.** *Proceedings of the National Academy of Sciences of the United States of America*
Li, X., Kuznetsova, T., Cauwenberghs, N., Wheeler, M., Maecker, H., Wu, J. C., Haddad, F., Dai, H.
2017; 114 (27): 7089–94
- **Genome-Wide Temporal Profiling of Transcriptome and Open Chromatin of Early Cardiomyocyte Differentiation Derived From hiPSCs and hESCs.** *Circulation research*
Liu, Q., Jiang, C., Xu, J., Zhao, M. T., Van Bortle, K., Cheng, X., Wang, G., Chang, H. Y., Wu, J. C., Snyder, M. P.
2017; 121 (4): 376–91
- **Comparison of Non-Coding RNAs in Exosomes and Functional Efficacy of Human Embryonic Stem Cell- Versus Induced Pluripotent Stem Cell-Derived Cardiomyocytes.** *Stem cells (Dayton, Ohio)*
Lee, W. H., Chen, W., Shao, N. Y., Xiao, D., Qin, X., Baker, N., Bae, H. R., Shukla, P., Wu, H., Kodo, K., Ong, S. G., Wu, J. C.
2017
- **Anisotropic microfibrinous scaffolds enhance the organization and function of cardiomyocytes derived from induced pluripotent stem cells.** *Biomaterials science*
Wanjare, M., Hou, L., Nakayama, K. H., Kim, J. J., Mezak, N. P., Abilez, O. J., Tzatzalos, E., Wu, J. C., Huang, N. F.
2017; 5 (8): 1567–78
- **Navigating the Future of Cardiovascular Drug Development-Leveraging Novel Approaches to Drive Innovation and Drug Discovery: Summary of Findings from the Novel Cardiovascular Therapeutics Conference.** *Cardiovascular drugs and therapy*
Povsic, T. J., Scott, R., Mahaffey, K. W., Blaustein, R., Edelberg, J. M., Lefkowitz, M. P., Solomon, S. D., Fox, J. C., Healy, K. E., Khakoo, A. Y., Losordo, D. W., Malik, F. I., Monia, et al
2017; 31 (4): 445–58
- **Fast two-photon imaging of subcellular voltage dynamics in neuronal tissue with genetically encoded indicators.** *eLife*
Chamberland, S., Yang, H. H., Pan, M. M., Evans, S. W., Guan, S., Chavarha, M., Yang, Y., Salesse, C., Wu, H., Wu, J. C., Clandinin, T. R., Toth, K., Lin, et al
2017; 6
- **Combining hiPSCs and Human Genetics: Major Applications in Drug Development.** *Cell stem cell*
Zhang, J., Li, H., Trounson, A., Wu, J. C., Nioi, P.
2017; 21 (2): 161–65
- **Alloimmune Responses of Humanized Mice to Human Pluripotent Stem Cell Therapeutics.** *Cell reports*
Kooreman, N. G., de Almeida, P. E., Stack, J. P., Nelakanti, R. V., Diecke, S., Shao, N. Y., Swijnenburg, R. J., Sanchez-Freire, V., Matsa, E., Liu, C., Connolly, A. J., Hamming, J. F., Quax, et al
2017; 20 (8): 1978–90
- **Multiscale technologies for treatment of ischemic cardiomyopathy.** *Nature nanotechnology*
Mahmoudi, M., Yu, M., Serpooshan, V., Wu, J. C., Langer, R., Lee, R. T., Karp, J. M., Farokhzad, O. C.
2017; 12 (9): 845–55

- **Incremental value of right heart metrics and exercise performance to well-validated risk scores in dilated cardiomyopathy.** *European heart journal cardiovascular Imaging*
Moneghetti, K. J., Giraldeau, G., Wheeler, M. T., Kobayashi, Y., Vrtovec, B., Boulate, D., Kuznetsova, T., Schnittger, I., Wu, J. C., Myers, J., Ashley, E., Haddad, F.
2017
- **Cell Type-Specific Chromatin Signatures Underline Regulatory DNA Elements in Human Induced Pluripotent Stem Cells and Somatic Cells.** *Circulation research*
Zhao, M. T., Shao, N. Y., Hu, S., Ma, N., Srinivasan, R., Jahanbani, F., Lee, J., Zhang, S. L., Snyder, M. P., Wu, J. C.
2017; 121 (11): 1237–50
- **Passive Stretch Induces Structural and Functional Maturation of Engineered Heart Muscle as Predicted by Computational Modeling.** *Stem cells (Dayton, Ohio)*
Abilez, O. J., Tzatzalos, E., Yang, H., Zhao, M. T., Jung, G., Zöllner, A. M., Tiburcy, M., Riegler, J., Matsa, E., Shukla, P., Zhuge, Y., Chour, T., Chen, et al
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