



Ian Y Chen, MD, PhD

Assistant Professor of Medicine (Cardiovascular) and of Radiology (Veterans Affairs)

Medicine - Cardiovascular Medicine

Bio

ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Medicine - Cardiovascular Medicine
- Assistant Professor - University Medical Line, Radiology
- Member, Bio-X
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Section Chief of General Cardiology (Outpatient), Cardiology Section, Veterans Affairs Palo Alto Health Care System, (2022- present)
- Section Lead for General Cardiology, Clinical Resource Hub for Telecardiology, Veterans Affairs Palo Alto Health Care System, (2022- present)
- Director, Women's Health Cardiology Clinic, Cardiology Section, Veterans Affairs Palo Alto Health Care System, (2021-2022)
- Director, VA/PAVIR Summer Research Program, Veterans Affairs Palo Alto Health Care System, (2023- present)
- Director, Translational Cardiovascular Research Laboratory, Veterans Affairs Palo Alto Health Care System, (2022- present)

HONORS AND AWARDS

- Superior Performance Award, Veterans Affairs Palo Alto Health Care System (2026)
- Director's Commendation Award, Veterans Affairs Palo Alto Health Care System (2021)
- Certification of Appreciation for Service and Performance, Department of Veterans Affairs (2021, 2022)
- Dorothy Penrose Stout Award, American Heart Association (2007)
- Moncada Award, Society of Computed Body Tomography and Magnetic Resonance (2006)
- Top Basic Science Abstract Award, Academy of Molecular Imaging (2006)
- Young Investigator Travel Scholarship, Academy of Molecular Imaging (2005)
- Cardiovascular Young Investigator Award, Society of Nuclear Medicine (2003)
- Richard J Johns Award for Outstanding Achievement in Biomedical Engineering, The Johns Hopkins University (1999)
- Honorary Member, Tau Beta Pi Engineering Honor Society (1998)
- Howard Hughes Summer Undergraduate Research Award, The Johns Hopkins University (1998)
- Honorary Member, Alpha Eta Mu Beta National Biomedical Engineering Honor Society (1997)
- Honorary Member, Golden Key National Honor Society (1996)
- Dean's List, The Johns Hopkins University (1995)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Faculty Advisor, Stanford Master in Translational Research and Applied Medicine (M-TRAM) Program (2024 - present)

PROFESSIONAL EDUCATION

- Fellowship, Stanford Hospital and Clinics , Cardiovascular Medicine (2017)
- Residency, Stanford Hospital and Clinics , Internal Medicine (2012)
- MD, Stanford University School of Medicine , Medicine (2010)
- PhD, Stanford University , Bioengineering (2008)
- MSE, The Johns Hopkins University , Biomedical Engineering (2002)
- BS, The Johns Hopkins University , Biomedical Engineering (1999)

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cardiovascular Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Profiling Immune-Independent Response to Immune Checkpoint Inhibitors on Stem Cell-Derived Cardiomyocytes, Organoids, and Mouse Models.** *Circulation*
Thomas, D., Manhas, A., Liu, Y., Venkateshappa, R., Belbachir, N., Zhao, S. R., Juguilon, C., Chen, I. Y., Moslehi, J., Sayed, N., Wu, J. C.
2026; 153 (2): 132-135
- **Personalized multiscale modeling of left atrial mechanics and blood flow** *COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING*
Shi, L., Gan, B., Chen, I. Y., Vedula, V.
2026; 448
- **Hemodynamic Analysis of Non-uniformly Calcified Aortic Valve Using a Partitioned Fluid-Structure Interaction Framework.** *Cardiovascular engineering and technology*
Raza-Taimuri, M., Chen, I. Y., Sadat, H.
2025
- **Multiscale profiling of tyrosine kinase inhibitor cardiotoxicity reveals mechanosensitive ion channel PIEZO1 as cardioprotective.** *Science translational medicine*
Manhas, A., Liu, Y., Noishiki, C., Wu, D., Tripathi, D., Mirza, S., Thomas, D., Liu, L., Guha, A., Nguyen, P. K., Chen, I. Y., Chitalia, V., Cheng, et al
2025; 17 (829): eadv9403
- **Personalized biventricular mechanics and sensitivity to model morphology.** *bioRxiv : the preprint server for biology*
Brown, A. L., Shi, L., Salvador, M., Kong, F., Ennis, D. B., Chen, I., Vedula, V., Marsden, A. L.
2025
- **Prediction of Coronary Artery Spasm in Patients Without Obstructive Coronary Artery Disease Using a Comprehensive Clinical, Laboratory and Echocardiographic Risk Score.** *Journal of clinical medicine*
Lee, Y. C., Chen, I. Y., Hung, M. J., Yeh, C. T., Kounis, N. G., Hu, P., Hung, M. Y.
2025; 14 (24)
- **Influence of Coronary Flow and Left Ventricular Outflow Tract Velocity on LDL Accumulation and Calcification in Aortic Valve Leaflets** *BIOMECHANICS*
Raza-Taimuri, M., Chen, I. Y., Sadat, H.
2025; 5 (4)
- **Influence of Coronary Flow and Left Ventricular Outflow Tract Velocity on LDL Accumulation and Calcification in Aortic Valve Leaflets.** *Biomechanics (Basel, Switzerland)*

- Raza-Taimuri, M., Chen, I. Y., Sadat, H.
2025; 5 (4)
- **Human Plasma in Calcific Aortic Valve Disease: Not Simply a Depot of Biomarkers.** *Journal of the American Heart Association*
Ho, Y., Chen, I. Y.
2025: e046421
 - **Dual Contrast-Enhanced Microcomputed Tomography Uncovers Leaflet-Dependent Patterns of Macrocalcification, Fibrous Extracellular Matrix Remodeling, and Adipocyte Degeneration in Calcific Aortic Stenosis.** *Journal of the American Heart Association*
El Zeini, M., Tacco, I. R., Jimenez, J. I., Kabiri, A., Vailionis, A., Perrino, J., Burns, D., Jensen, K. C., Burdon, T. A., Shudo, Y., Woo, Y. J., Liang, T., Alexander, et al
2025: e040616
 - **Immunosuppression Drugs Exhibit Differential Effects on Endothelial Cell Function.** *Journal of vascular research*
Elezaby, A., Dexheimer, R., Wu, D., Chan, S. Y., Tacco, I. R., Chen, I. Y., Sayed, N., Sallam, K.
2025: 1-13
 - **Generation of an induced pluripotent stem cell line from a malignant melanoma patient who developed the immune checkpoint inhibitor-related myasthenia gravis, myositis, and myocarditis overlap syndrome.** *Stem cell research*
Huynh, D. T., Noishiki, C., Lai, J., Yarahmadi, P., Le, T., Tripathi, D., Tacco, I. R., Manhas, A., Sallam, K., Chen, I. Y., Sayed, N., Nguyen, P. K.
2025; 87: 103797
 - **Cardioprotection by poloxamer 188 is mediated through increased endothelial nitric oxide production.** *Scientific reports*
Chen, G., Douglas, H. F., Li, Z., Cleveland, W. J., Balzer, C., Yannopoulos, D., Chen, I. Y., Obal, D., Riess, M. L.
2025; 15 (1): 15170
 - **Generation and characterization of three induced pluripotent stem cell lines for modeling coronary artery vasospasm.** *Stem cell research*
Ross Tacco, I., Olshausen, J., Chan, T. Y., Turbes, N., Hung, M. Y., Yeh, C. T., Nguyen, P. K., Sallam, K., Sayed, N., Chen, I. Y.
2024; 82: 103644
 - **An optimization framework to personalize passive cardiac mechanics** *COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING*
Shi, L., Chen, I. Y., Takayama, H., Vedula, V.
2024; 432
 - **Effects of statins in patients with coronary artery spasm: A nationwide population-based study.** *Clinical and translational science*
Lee, Y. C., Hung, M. J., Chen, T. H., Mao, C. T., Yeh, C. T., Kounis, N. G., Chen, I. Y., Hu, P., Hung, M. Y.
2024; 17 (11): e70087
 - **Dual Contrast-Enhanced Micro-Computed Tomography for Simultaneous Characterization of Macrocalcification and Tri-Layered Structural Remodeling in Explanted Human Aortic Valves**
El Zeini, M., Kabiri, A., Vailionis, A., Perrino, J., Jensen, K. C., Burdon, T. A., Shudo, Y., Boyd, J., Woo, Y., Marie-Joubert, L., Chen, I. Y.
LIPPINCOTT WILLIAMS & WILKINS.2023
 - **Unsupervised Machine Learning of Imaging- Based SubPhenotypes of Aortic Stenosis With Differential Risks of Conduction Disturbances After Transcatheter Aortic Valve Replacement**
El Zeini, M., Tran, M., Badarabandi, U., Liu, C., Chang, A. Y., Malik, S., Kang, G., Sayed, N., Sallam, K., Tsao, P. S., Wu, J. C., Chen, I. Y.
LIPPINCOTT WILLIAMS & WILKINS.2023
 - **Statins improve endothelial function via suppression of epigenetic-driven EndMT.** *Nature cardiovascular research*
Liu, C., Shen, M., Tan, W. L., Chen, I. Y., Liu, Y., Yu, X., Yang, H., Zhang, A., Liu, Y., Zhao, M. T., Ameen, M., Zhang, M., Gross, et al
2023; 2 (5): 467-485
 - **Generation of three induced pluripotent stem cell lines to model and investigate diseases affecting Hispanics.** *Stem cell research*
Chen, I. Y., Olshausen, J., Thomas, D., Lai, C., McLaughlin, T. L., Wu, J. C.
2022; 65: 102969
 - **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

- **Framework for patient-specific simulation of hemodynamics in heart failure with counterpulsation support.** *Frontiers in cardiovascular medicine*
Arduini, M., Pham, J., Marsden, A. L., Chen, I. Y., Ennis, D. B., Dual, S. A.
2022; 9: 895291
- **Cannabinoid receptor 1 antagonist genistein attenuates marijuana-induced vascular inflammation.** *Cell*
Wei, T. T., Chandy, M., Nishiga, M., Zhang, A., Kumar, K. K., Thomas, D., Manhas, A., Rhee, S., Justesen, J. M., Chen, I. Y., Wo, H. T., Khanamiri, S., Yang, et al
2022
- **Modeling Effects of Immunosuppressive Drugs on Human Hearts Using Induced Pluripotent Stem Cell-Derived Cardiac Organoids and Single-Cell RNA Sequencing.** *Circulation*
Sallam, K., Thomas, D., Gaddam, S., Lopez, N., Beck, A., Beach, L., Rogers, A. J., Zhang, H., Chen, I. Y., Ameen, M., Hiesinger, W., Teuteberg, J. J., Rhee, et al
2022; 145 (17): 1367-1369
- **The Smoking Paradox: A Twist in the Tale of Vasospastic Angina.** *Journal of vascular medicine & surgery*
Tran, M. V., Marceau, E., Lee, P. Y., Chandy, M., Chen, I. Y.
2021; 9 (7)
- **Preoperative Computed Tomography Angiography Reveals Leaflet-Specific Calcification and Excursion Patterns in Aortic Stenosis.** *Circulation. Cardiovascular imaging*
Chen, I. Y., Vedula, V., Malik, S. B., Liang, T., Chang, A. Y., Chung, K. S., Sayed, N., Tsao, P. S., Giacomini, J. C., Marsden, A. L., Wu, J. C.
1800: CIRCIMAGING121012884
- **Coronary Artery Vasospasm Requiring Cardiac Autotransplantation Yet Controlled With Tobacco.** *JACC. Case reports*
Tran, M. V., Marceau, E., Liu, Y., Sallam, K., Medina, P., Liu, C., Sayed, N., Muller, M. D., Liang, D. H., Chen, I. Y.
2021; 3 (9): 1177-1181
- **A protocol for transdifferentiation of human cardiac fibroblasts into endothelial cells via activation of innate immunity.** *STAR protocols*
Liu, C., Medina, P., Thomas, D., Chen, I. Y., Sallam, K., Sayed, D., Sayed, N.
2021; 2 (2): 100556
- **Preoperative Computed Tomography Angiography Reveals Leaflet-specific Contribution to Aortic Stenosis Influenced by Local Coronary Factors**
Chen, I. Y., Vedula, V., Malik, S. B., Liang, T., Chung, K. S., Sayed, N., Tsao, P. S., Giacomini, J. C., Marsden, A. L., Wu, J. C.
LIPPINCOTT WILLIAMS & WILKINS.2020
- **Sanjiv Sam Gambhir, MD, PhD (1962-2020).** *Journal of nuclear cardiology : official publication of the American Society of Nuclear Cardiology*
Wu, J. C., Wardak, M., Chen, I. Y.
2020
- **The Regulation of Endothelial Function Through Hmgcr/mevalonate Pathway Mediated Yap Activity**
Liu, C., Liu, Y., Chen, C., Ameen, M., Yang, H., Shen, M., Rhee, J., Chen, I. Y., Sayed, N., Wu, J. C.
LIPPINCOTT WILLIAMS & WILKINS.2020
- **HIF1 α Regulates Early Metabolic Changes due to Activation of Innate Immunity in Nuclear Reprogramming.** *Stem cell reports*
Liu, C. n., Ruan, H. n., Himmati, F. n., Zhao, M. T., Chen, C. C., Makar, M. n., Chen, I. Y., Sallam, K. n., Mocarski, E. S., Sayed, D. n., Sayed, N. n.
2020; 14 (2): 192–200
- **Pathway-specific reporter genes to study stem cell biology.** *Stem cells (Dayton, Ohio)*
Peterson, K. M., Franchi, F. n., Olthoff, M. n., Chen, I. Y., Paulmurugan, R. n., Rodriguez-Porcel, M. n.
2020
- **Studying Cardiovascular Effects of Marijuana on Healthy Individuals Using Human Derived Induced Pluripotent Stem Cells**
Wei, T., Chandy, M., Chen, I. Y., Wo, H., Khanamiri, S., Nishiga, M., Seidl, F., Sayed, N., Liu, C., Rhee, J., Obal, D., Chour, T., Wu, et al
LIPPINCOTT WILLIAMS & WILKINS.2019
- **Adiponectin Receptor 3 is Associated With Endothelial Nitric Oxide Synthase Dysfunction and Predicts Insulin Resistance in South Asians**
Chandy, M., Sayed, N., Lau, E., Liu, C., Wei Tzu-Tang, Chen, I. Y., Thomas, D., Rhee, J., Oh, B., Pepic, L., Husain, M., Quertermous, T., Nallamshetty, S., et al

LIPPINCOTT WILLIAMS & WILKINS.2019

- **Marked Vascular Dysfunction in a Case of Peripartum Cardiomyopathy.** *Journal of vascular research*
Khanamiri, S. n., Rhee, J. W., Paik, D. T., Chen, I. Y., Liu, C. n., Sayed, N. n.
2019; 56 (1): 11–15
- **Marked Vascular Dysfunction in a Case of Peripartum Cardiomyopathy** *JOURNAL OF VASCULAR RESEARCH*
Khanamiri, S., Rhee, J., Paik, D. T., Chen, I. Y., Liu, C., Sayed, N.
2019; 56 (1): 11–15
- **Large-Scale Single-Cell RNA-Seq Reveals Molecular Signatures of Heterogeneous Populations of Human Induced Pluripotent Stem Cell-Derived Endothelial Cells** *CIRCULATION RESEARCH*
Paik, D. T., Tian, L., Lee, J., Sayed, N., Chen, I. Y., Rhee, S., Rhee, J., Kim, Y., Wirka, R. C., Buikema, J. W., Wu, S. M., Red-Horse, K., Quertermous, et al
2018; 123 (4): 443–50
- **Large-Scale Single-Cell RNA-Seq Reveals Molecular Signatures of Heterogeneous Populations of Human Induced Pluripotent Stem Cell-Derived Endothelial Cells.** *Circulation research*
Paik, D. T., Tian, L., Lee, J., Sayed, N., Chen, I. Y., Rhee, S., Rhee, J., Kim, Y., Wirka, R. C., Buikema, J. W., Wu, S. M., Red-Horse, K., Quertermous, et al
2018
- **REDUCED CARBOXYLESTERASE 1 IS ASSOCIATED WITH ENDOTHELIAL INJURY IN METHAMPHETAMINE INDUCED PULMONARY ARTERIAL HYPERTENSION.** *American journal of physiology. Lung cellular and molecular physiology*
Orcholski, M. E., Khurshudy, A., Shamskhou, E. A., Yuan, K., Chen, I. Y., Kodani, S. D., Morisseau, C., Hammock, B. D., Hong, E. M., Alexandrova, L., Alastalo, T., Berry, G., Zamanian, et al
2017: ajplung 00453 2016-?
- **Imaging Cardiac Stem Cell Therapy** *Cardiac Regeneration*
Qin, X., Chen, I. Y., Wu, J. C.
Springer.2017: 241–258
- **Alternative approaches to generating cardiomyocytes are under development.** *Nature reviews. Cardiology*
Chen, I. Y., Matsa, E., Wu, J. C.
2016; 13 (10): 574-?
- **Finding Expandable Induced Cardiovascular Progenitor Cells** *CIRCULATION RESEARCH*
Chen, I. Y., Wu, J. C.
2016; 119 (1): 16-20
- **Induced pluripotent stem cells: at the heart of cardiovascular precision medicine** *NATURE REVIEWS CARDIOLOGY*
Chen, I. Y., Matsa, E., Wu, J. C.
2016; 13 (6): 333-349
- **Reprogramming and transdifferentiation for cardiovascular development and regenerative medicine: where do we stand?** *EMBO molecular medicine*
Ebert, A. D., Diecke, S., Chen, I. Y., Wu, J. C.
2015; 7 (9): 1090-1103
- **A titratable two-step transcriptional amplification strategy for targeted gene therapy based on ligand-induced intramolecular folding of a mutant human estrogen receptor.** *Molecular imaging and biology*
Chen, I. Y., Paulmurugan, R., Nielsen, C. H., Wang, D. S., Chow, V., Robbins, R. C., Gambhir, S. S.
2014; 16 (2): 224-234
- **Noninvasive imaging of hypoxia-inducible factor-1a gene therapy for myocardial ischemia.** *Human gene therapy methods*
Chen, I. Y., Gheysens, O., Li, Z., Rasooly, J. A., Wang, Q., Paulmurugan, R., Rosenberg, J., Rodriguez-Porcel, M., Willmann, J. K., Wang, D. S., Contag, C. H., Robbins, R. C., Wu, et al
2013; 24 (5): 279-288
- **Molecular imaging: The key to advancing cardiac stem cell therapy** *TRENDS IN CARDIOVASCULAR MEDICINE*
Chen, I. Y., Wu, J. C.

2013; 23 (6): 201-210

- **Noninvasive Monitoring of Oxidative Stress in Transplanted Mesenchymal Stromal Cells** *JACC-CARDIOVASCULAR IMAGING*
Psaltis, P. J., Peterson, K. M., Xu, R., Franchi, F., Witt, T., Chen, I. Y., Lerman, A., Simari, R. D., Gambhir, S. S., Rodriguez-Porcel, M.
2013; 6 (7): 795-802
- **Non-invasive Bioluminescence Imaging of Myoblast-Mediated Hypoxia-Inducible Factor-1 Alpha Gene Transfer** *MOLECULAR IMAGING AND BIOLOGY*
Gheysens, O., Chen, I. Y., Rodriguez-Porcel, M., Chan, C., Rasooly, J., Vaerenberg, C., Paulmurugan, R., Willmann, J. K., Deroose, C., Wu, J., Gambhir, S. S.
2011; 13 (6): 1124-1132
- **In vivo Imaging of Oxidative Stress in Mesenchymal Stromal Cells Transplanted After Myocardial Ischemia/Reperfusion Injury**
Psaltis, P. J., Peterson, K., Xu, R., Franchi, F., Chen, I. Y., Simari, R. D., Lerman, A., Ghambir, S. S., Rodriguez-Porcel, M. G.
LIPPINCOTT WILLIAMS & WILKINS.2011
- **Cardiovascular Molecular Imaging Focus on Clinical Translation** *CIRCULATION*
Chen, I. Y., Wu, J. C.
2011; 123 (4): 425-443
- **Longitudinal, Noninvasive Imaging of T-Cell Effector Function and Proliferation in Living Subjects** *CANCER RESEARCH*
Patel, M. R., Chang, Y., Chen, I. Y., Bachmann, M. H., Yan, X., Contag, C. H., Gambhir, S. S.
2010; 70 (24): 10141-10149
- **Indirect imaging of cardiac-specific transgene expression using a bidirectional two-step transcriptional amplification strategy** *GENE THERAPY*
Chen, I. Y., Gheysens, O., Ray, S., Wang, Q., Padmanabhan, P., Paulmurugan, R., Loening, A. M., Rodriguez-Porcel, M., Willmann, J. K., Sheikh, A. Y., Nielsen, C. H., Hoyt, G., Contag, et al
2010; 17 (7): 827-838
- **Antioxidants Improve Early Survival of Cardiomyoblasts After Transplantation to the Myocardium** *MOLECULAR IMAGING AND BIOLOGY*
Rodriguez-Porcel, M., Gheysens, O., Paulmurugan, R., Chen, I. Y., Peterson, K. M., Willmann, J. K., Wu, J. C., Zhu, X., Lerman, L. O., Gambhir, S. S.
2010; 12 (3): 325-334
- **A Novel Molecular Imaging Sensor of Cellular Oxidative Stress** *82nd National Conference and Exhibitions and Scientific Sessions of the American-Heart-Association*
Peterson, K. M., Chen, I. Y., Simari, R. D., Gambhir, S. S., Lerman, A., Rodriguez-Porcel, M.
LIPPINCOTT WILLIAMS & WILKINS.2009: S1025–S1025
- **Visualizing Implanted Tumors in Mice with Magnetic Resonance Imaging Using Magnetotactic Bacteria** *CLINICAL CANCER RESEARCH*
Benoit, M. R., Mayer, D., Barak, Y., Chen, I. Y., Hu, W., Cheng, Z., Wang, S. X., Spielman, D. M., Gambhir, S. S., Matin, A.
2009; 15 (16): 5170-5177
- **Imaging Gene Expression in Human Mesenchymal Stem Cells: From Small to Large Animals** *RADIOLOGY*
Willmann, J. K., Paulmurugan, R., Rodriguez-Porcel, M., Stein, W., Brinton, T. J., Connolly, A. J., Nielsen, C. H., Lutz, A. M., Lyons, J., Ikeno, F., Suzuki, Y., Rosenberg, J., Chen, et al
2009; 252 (1): 117-127
- **Comparison of Optical Bioluminescence Reporter Gene and Superparamagnetic Iron Oxide MR Contrast Agent as Cell Markers for Noninvasive Imaging of Cardiac Cell Transplantation** *MOLECULAR IMAGING AND BIOLOGY*
Chen, I. Y., Greve, J. M., Gheysens, O., Willmann, J. K., Rodriguez-Porcel, M., Chu, P., Sheikh, A. Y., Faranesh, A. Z., Paulmurugan, R., Yang, P. C., Wu, J. C., Gambhir, S. S.
2009; 11 (3): 178-187
- **In Vivo Serial Evaluation of Superparamagnetic Iron-Oxide Labeled Stem Cells by Off-Resonance Positive Contrast** *MAGNETIC RESONANCE IN MEDICINE*
Suzuki, Y., Cunningham, C. H., Noguchi, K., Chen, I. Y., Weissman, I. L., Yeung, A. C., Robbins, R. C., Yang, P. C.
2008; 60 (6): 1269-1275
- **Imaging of VEGF receptor in a rat myocardial infarction model using PET** *JOURNAL OF NUCLEAR MEDICINE*

- Rodriguez-Porcel, M., Cai, W., Gheysens, O., Willmann, J. K., Chen, K., Wang, H., Chen, I. Y., He, L., Wu, J. C., Li, Z., Mohamedali, K. A., Kim, S., Rosenblum, et al
2008; 49 (4): 667-673
- **Monitoring of the biological response to murine Hindlimb ischemia with Cu-64-labeled vascular endothelial growth factor-121 positron emission tomography** *CIRCULATION*
Willmann, J. K., Chen, K., Wang, H., Paulmurugan, R., Rollins, M., Cai, W., Wang, D. S., Chen, I. Y., Gheysens, O., Rodriguez-Porcel, M., Chen, X., Gambhir, S. S.
2008; 117 (7): 915-922
 - **Reporter gene imaging following percutaneous delivery in swine - Moving toward clinical applications** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Rodriguez-Porcel, M., Brinton, T. J., Chen, I. Y., Gheysens, O., Lyons, J., Ikeno, F., Willmann, J. K., Wu, L., Wu, J. C., Yeung, A. C., Yock, P., Gambhir, S. S.
2008; 51 (5): 595-597
 - **US imaging of tumor angiogenesis with microbubbles targeted to vascular endothelial growth factor receptor type 2 in mice** *RADIOLOGY*
Willmann, J. K., Paulmurugan, R., Chen, K., Gheysens, O., Rodriguez-Porcel, M., Lutz, A. M., Chen, I. Y., Chen, X., Gambhir, S. S.
2008; 246 (2): 508-518
 - **In vivo optical bioluminescence imaging of collagen-supported cardiac cell grafts** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*
Kutschka, I., Chen, I. Y., Kofidis, T., von Degenfeld, G., Sheikh, A. Y., Hendry, S. L., Hoyt, G., Pearl, J., Blau, H. M., Gambhir, S. S., Robbins, R. C.
2007; 26 (3): 273-280
 - **Adenoviral human BCL-2 transgene expression attenuates early donor cell death after cardiomyoblast transplantation into ischemic rat hearts** *78th Annual Scientific Session of the American-Heart-Association*
Kutschka, I., Kofidis, T., Chen, I. Y., von Degenfeld, G., Zwierzchoniowska, M., Hoyt, G., Arai, T., Lebl, D. R., Hendry, S. L., Sheikh, A. Y., Cooke, D. T., Connolly, A., Blau, et al
LIPPINCOTT WILLIAMS & WILKINS.2006: I174-I180
 - **Collagen matrices enhance survival of transplanted cardiomyoblasts and contribute to functional improvement of ischemic rat hearts** *78th Annual Scientific Session of the American-Heart-Association*
Kutschka, I., Chen, I. Y., Kofidis, T., Arai, T., von Degenfeld, G., Sheikh, A. Y., Hendry, S. L., Pearl, J., Hoyt, G., Sista, R., Yang, P. C., Blau, H. M., Gambhir, et al
LIPPINCOTT WILLIAMS & WILKINS.2006: I167-I173
 - **Noninvasive evaluation of immunosuppressive drug efficacy on acute donor cell survival** *MOLECULAR IMAGING AND BIOLOGY*
Gheysens, O., Lin, S., Cao, F., Wang, D., Chen, I. Y., Rodriguez-Porcel, M., Min, J. J., Gambhir, S. S., Wu, J. C.
2006; 8 (3): 163-170
 - **Transcriptional profiling of reporter genes used for molecular imaging of embryonic stem cell transplantation** *PHYSIOLOGICAL GENOMICS*
Wu, J. C., Spin, J. M., Cao, F., Lin, S. A., Xie, X. Y., Gheysens, O., Chen, I. Y., Sheikh, A. Y., Robbins, R. C., Tsalenko, A., Gambhir, S. S., Quertermous, T.
2006; 25 (1): 29-38
 - **Image-guided cardiac cell delivery using high-resolution small-animal ultrasound** *MOLECULAR THERAPY*
Rodriguez-Porcel, M., Gheysens, O., Chen, I. Y., Wu, J. C., Gambhir, S. S.
2005; 12 (6): 1142-1147
 - **Collagen matrices enhance survival of embryonic cardiomyoblasts following transplantation into ischemic rat hearts**
Kutschka, Kofidis, T., Chen, I. Y., Arai, T., Sheikh, A. Y., Hendry, S. L., Pearl, J., Hoyt, G., Connolly, A., Yang, P. C., Gambhir, S. S., Robbins, R. C.
LIPPINCOTT WILLIAMS & WILKINS.2005: U805
 - **Adenoviral human BCL-2 attenuates early cell death following cardiomyoblast transplantation into ischemic rat hearts**
Kutschka, Chen, I. Y., Kofidis, T., Zwierzchoniowska, M., Arai, T., von Degenfeld, G., Sheikh, A. Y., Hendry, S. L., Lebl, D. R., Cooke, D. T., Gambhir, S. S., Robbins, R. C.
LIPPINCOTT WILLIAMS & WILKINS.2005: U504
 - **Molecular imaging of the kinetics of vascular endothelial growth factor gene expression in ischemic myocardium** *CIRCULATION*
Wu, J. C., Chen, I. Y., Wang, Y. L., Tseng, J. R., Chhabra, A., Salek, M., Min, J. J., Fishbein, M. C., Crystal, R., Gambhir, S. S.

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