

Stanford



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 Lead (General Cardiology), Cardiology Section, Veterans Affairs Palo Alto Health Care System, (2022- present)
- Director, Outpatient Cardiology Services, Veterans Affairs Palo Alto Health Care System, (2021- present)
- Section Lead (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

- 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)

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

- **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
- **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
- **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
- **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
- **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
- **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
- **Cardiovascular Molecular Imaging Focus on Clinical Translation** *CIRCULATION*
Chen, I. Y., Wu, J. C.
2011; 123 (4): 425-443

- **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
- **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
- **Micro-positron emission tomography imaging of cardiac gene expression in rats using bicistronic adenoviral vector-mediated gene delivery** *CIRCULATION*
Chen, I. Y., Wu, J. C., Min, J. J., Sundaresan, G., Lewis, X., Liang, Q. W., Herschman, H. R., Gambhir, S. S.
2004; 109 (11): 1415-1420
- **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
- **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
- **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
- **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
- **The Regulation of Endothelial Function Through Hmger/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 β 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., Khurshudyan, A., Shamskhov, 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
- **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
- **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
 - **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
 - **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
 - **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 RADIOLOGY*
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., Zwierzchowska, 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., Zwierzchowska, 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.
2004; 110 (6): 685-691
- **Molecular imaging of cardiac cell transplantation in living animals using optical bioluminescence and positron emission tomography** *CIRCULATION*
Wu, J. C., Chen, I. Y., Sundaresan, G., Min, J. J., De, A., Qiao, J. H., Fishbein, M. C., Gambhir, S. S.
2003; 108 (11): 1302-1305
- **Regulatory proteins alter nucleotide binding to acto-myosin of sliding filaments in motility assays** *BIOPHYSICAL JOURNAL*
Homsher, E., Nili, M., Chen, I. Y., Tobacman, L. S.
2003; 85 (2): 1046-1052