

Stanford



William Hiesinger, MD

Assistant Professor of Cardiothoracic Surgery (Adult Cardiac Surgery) at the Stanford University Medical Center

CLINICAL OFFICES

- **Cardiothoracic Surgery**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Elizabeth Pope - Administrative Associate

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Bio

BIO

Dr. Hiesinger is a board-certified, fellowship-trained specialist in adult cardiac surgery. He is also an assistant professor in the Department of Cardiothoracic Surgery at Stanford University School of Medicine.

Dr. Hiesinger's clinical focus encompasses the full spectrum of cardiothoracic conditions and treatment approaches, such as heart transplantation, lung transplantation, mitral and aortic valve repair, cardiomyopathy surgical treatment, and coronary artery bypass procedures. He serves as Surgical Director of the Stanford Mechanical Circulatory Support Program, where he leads and directs the surgical implantation of ventricular assist devices (VADs) in patients with end-stage heart failure.

The National Institutes of Health and the Thoracic Surgery Foundation have awarded funds to support Dr. Hiesinger's research. In the Stanford Cardiothoracic Therapeutics and Surgery Laboratory, he investigates innovations such as bioengineered devices, tissue engineering, and angiogenic cytokine therapy for the treatment of ischemic heart failure.

He has published extensively on new techniques in ventricular assist device implantation, advances in life support for cardiac failure, cell transplantation in heart failure, and many other topics. His work has appeared in the Journal of Thoracic and Cardiovascular Surgery, Journal of Vascular Surgery, Journal of Cardiac Failure, Current Treatment Options in Cardiovascular Medicine, and elsewhere. In addition, Dr. Hiesinger is a reviewer for the publication Circulation.

He teaches courses on cardiothoracic surgery skills. He also advises surgeons of the future.

Dr. Hiesinger has won awards for his research and scholarship, including the Surgical Resident of the Year Award, Jonathan E. Rhoads Research Award, Clyde F. Baker Research Prize, and I.S. Ravdin Prize, all from his alma mater, the University of Pennsylvania. He was a finalist for the Vivien Thomas Young Investigator Award from the American Heart Association.

Dr. Hiesinger is a member of the Society of Thoracic Surgeons and serves on the Workforce on Surgical Treatment of End-Stage Cardiopulmonary Disease national committee. He is also a member of the American Heart Association Council for Cardiothoracic and Vascular Surgery.

CLINICAL FOCUS

- Heart Transplantation
- Mechanical Circulatory Support
- Mitral Valve Repair
- Aortic Aneurysm
- Minimally Invasive Cardiac Surgery
- Cardiac Surgery
- Complex Valve Repair Surgery
- Aortic Valve Repair
- Valve Replacement Surgery
- Surgical Treatments of Cardiomyopathy
- Heart Failure
- Ventricular Assist Device
- Heart-Lung Transplantation
- Coronary Artery Bypass
- Coronary Artery Bypass, Off-pump
- Reoperative Cardiac Surgery
- Clinical Device Trials
- Lung Transplantation
- Thoracic and Cardiovascular Surgery
- Thoracic Surgery

ACADEMIC APPOINTMENTS

- Assistant Professor - Med Center Line, Cardiothoracic Surgery
- Member, Bio-X
- Member, Cardiovascular Institute

HONORS AND AWARDS

- Keith Reemtsma Surgical Resident of the Year Award, Department of Surgery, University of Pennsylvania (2014)
- Jonathan E. Rhoads Research Award, Department of Surgery, University of Pennsylvania (2011)
- Vivien Thomas Young Investigator Award Finalist, American Heart Association (2010)
- Alpha Omega Alpha (AOA) Honor Medical Society, University of Pennsylvania (2007)
- Clyde F. Baker Research Prize, Department of Surgery, University of Pennsylvania (2007)
- First Place, Medical Student Research Day Basic Science Research, University of Pennsylvania (2007)
- I. S. Ravdin Prize, Department of Surgery, University of Pennsylvania (2007)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Society of Thoracic Surgeons Workforce on Surgical Treatment of End-Stage Cardiopulmonary Disease, National Committee (2017 - present)
- Reviewer, Circulation (2017 - present)

- Member, American Heart Association, Council for Cardiothoracic & Vascular Surgery (2017 - present)
- Member, Society of Thoracic Surgeons (2017 - present)

PROFESSIONAL EDUCATION

- Fellowship: Hospital of the University of Pennsylvania Dept of CTS (2016) PA
- Residency: Hospital of the University of Pennsylvania General Surgery Residency (2014) PA
- Medical Education: Perelman School of Medicine University of Pennsylvania (2007) PA
- Board Certification: Thoracic Surgery, American Board of Thoracic Surgery (2017)
- Board Certification: General Surgery, American Board of Surgery (2015)
- M.D., University of Pennsylvania (2008)

LINKS

- Stanford Adult Cardiac Services: <http://med.stanford.edu/ctsurgery/clinical-care/adult-cardiac-surgery-services.html>
- Make an Appointment: <http://med.stanford.edu/ctsurgery/contact-us.html#division-of-adult-cardiac-surgery>
- Stanford Cardiothoracic Therapeutics and Surgery Laboratory: <http://med.stanford.edu/hiesingerlab.html>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>
- Follow us on Twitter: <https://twitter.com/StanfordCTSurg>

Research & Scholarship

CLINICAL TRIALS

- Edwards PASCAL CLASP IID/IIF Pivotal Clinical Trial, Recruiting
- MOMENTUM 3 Continued Access Protocol, Not Recruiting

Teaching

COURSES

2018-19

- Introduction to Cardiothoracic Surgery Skills: CTS 101SI (Spr)

2017-18

- Introduction to Cardiothoracic Surgery Skills: CTS 101SI (Spr)

STANFORD ADVISEES

Med Scholar Project Advisor

Nicolas Quach

Postdoctoral Faculty Sponsor

Rohan Shad Arora

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cardiothoracic Surgery (Fellowship Program)

Publications

PUBLICATIONS

- **Single-Cell Transcriptomic Profiling of Vascular Smooth Muscle Cell Phenotype Modulation in Marfan Syndrome Aortic Aneurysm.** *Arteriosclerosis, thrombosis, and vascular biology*
Pedroza, A. J., Tashima, Y., Shad, R., Cheng, P., Wirka, R., Churovich, S., Nakamura, K., Yokoyama, N., Cui, J. Z., Iosef, C., Hiesinger, W., Quertermous, T., Fischbein, et al
2020: ATVB AHA120314670
- **Donors after circulatory death heart trial.** *Future cardiology*
Shudo, Y., Benjamin-Addy, R., Koyano, T. K., Hiesinger, W., MacArthur, J. W., Woo, Y. J.
2020
- **Open-Chest Ablation of Incessant Ventricular Tachycardia During Left Ventricular Assist Device Implantation.** *JACC. Clinical electrophysiology*
Shah, R. L., Hiesinger, W., Badhwar, N.
2020; 6 (7): 901–2
- **Novel Methods for Donor and Recipient Size Matching in Heart Transplantation**
Miller, R. J., Hedman, K., Vrotec, B., Ingelsson, E., Heidenreich, P., Hiesinger, W., Oyer, P., Teuteberg, J., Haddad, F.
ELSEVIER SCIENCE INC.2020: S50
- **Thoracotomy Approach is Associated with Less Right Ventricular Failure and Shorter Length of Stay: An Intermacs Analysis of Nearly 1000 Implants via Thoracotomy**
Lampert, B. C., Teuteberg, J. J., Mokadam, N. A., Myers, S., Hiesinger, W., Woo, Y., Kirklin, J. K., Whitson, B. A.
ELSEVIER SCIENCE INC.2020: S121–S122
- **Severe Primary Graft Dysfunction: Impact of the New UNOS Heart Allocation System**
Han, J., Moayedi, Y., Yang, W., Henriksen, E. J., Lee, R., Purewal, S., Chang, E., Duclos, S., Lyapin, A., Tremblay-Gravel, M., Alexander, K. M., Kawana, M., Hiesinger, et al
ELSEVIER SCIENCE INC.2020: S173–S174
- **To SIPAT or Not to SIPAT: The Stanford Integrated Psychosocial Assessment for Transplant**
Moayedi, Y., Yang, W. A., Mueller, B., Fan, C. S., Purewal, S., Ramirez, N., Han, J., Henriksen, E. J., Lee, R., Duclos, S., Lyapin, A., Wainwright, R., Hiesinger, et al
ELSEVIER SCIENCE INC.2020: S39–S40
- **Take the First Available Heart: Use of Higher-Risk Donors in Recipients with Pre-Transplant Mechanical Circulatory Support**
Han, J., Moayedi, Y., Yang, W., Henriksen, E. J., Lee, R., Purewal, S., Chang, E., Duclos, S., Lyapin, A., Feng, K. Y., Hiesinger, W., Teuteberg, J. J., Khush, et al
ELSEVIER SCIENCE INC.2020: S42
- **More Money and More Miles: The Hidden Costs of Donor Procurement with the New Heart Allocation System**
Lampert, B. C., Ravichandran, A. K., Teuteberg, J. J., Patel, C., Shah, P., Hiesinger, W., Campbell, D. A., Slivnick, J., Hasan, A. K., Salerno, C., Thomas, J., Seator, E., Schroder, et al
ELSEVIER SCIENCE INC.2020: S175
- **Moving towards an Induction-Free Era: Short-Term Renal and Infectious Outcomes**
Moayedi, Y., Henriksen, E. J., Lafreniere-Roula, M., Fan, C. S., Multani, A., Puing, A., Couture-Cosette, A., Quintero, O., Han, J., Feng, K. Y., Lee, R., Duclos, S., Lyapin, et al
ELSEVIER SCIENCE INC.2020: S274–S275
- **More Frequent Hospitalizations and Worse Quality of Life with Late Right Heart Failure Compared to Early Right Heart Failure after Left Ventricular Assist as Destination Therapy**
Teuteberg, J., Hiesinger, W., Cowger, J. A., Rich, J., Najjar, S. S., Jacoski, M., Markham, D., Rogers, J.
ELSEVIER SCIENCE INC.2020: S91–S92
- **A Decade of Single Center HeartWare (TM) HVAD (TM) Experience**
Guenther, S. P., Fong, R., Abovwe, N., Shad, R., MacArthur, J. W., Teuteberg, J., Woo, Y., Shudo, Y., Hiesinger, W.
ELSEVIER SCIENCE INC.2020: S339

- **Use of direct oral anticoagulants after heart transplantation.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
Henricksen, E. J., Tremblay-Gravel, M., Moayed, Y., Yang, W., Lee, R., Ross, H. J., Hiesinger, W., Teuteberg, J. J., Khush, K. K.
2020
- **Use of patient-specific computational models for optimization of aortic insufficiency after implantation of left ventricular assist device.** *The Journal of thoracic and cardiovascular surgery*
Kasinpila, P. n., Kong, S. n., Fong, R. n., Shad, R. n., Kaiser, A. D., Marsden, A. L., Woo, Y. J., Hiesinger, W. n.
2020
- **Impact of Surgical Approach in Double Lung Transplantation: Median Sternotomy vs Clamshell Thoracotomy.** *Transplantation proceedings*
Shudo, Y. n., Rinewalt, D. n., Lingala, B. n., Kim, F. Y., He, H. n., Boyd, J. H., Lee, A. M., Hiesinger, W. n., Currie, M. E., MacArthur, J. W., Woo, Y. J.
2020
- **OUTCOMES OF PATIENTS WITH INFECTION RELATED TO VENTRICULAR ASSIST DEVICE AFTER HEART TRANSPLANTATION**
Moayed, Y., Multani, A., Bunce, P., Tremblay-Gravel, M., Gomez, C., Garvert, D., Duclos, S., Hiesinger, W., Ross, H., Khush, K., Montoya, J., Teuteberg, J.
WILEY.2019: 55
- **"Cheese Wire" Fenestration of Dissection Intimal Flap to Facilitate Thoracic Endovascular Aortic Repair in Chronic Dissection.** *Journal of vascular and interventional radiology : JVIR*
Iwakoshi, S., Watkins, C. A., Ogawa, Y., Fischbein, M., Lee, A., Lee, J. T., Hiesinger, W., Dake, M. D.
2019
- **Outcomes of patients with infection related to a ventricular assist device after Heart Transplantation.** *Clinical transplantation*
Moayed, Y., Multani, A., Bunce, P. E., Henricksen, E., Lee, R., Yang, W., Gomez, C. A., Garvert, D. W., Tremblay-Gravel, M., Duclos, S., Hiesinger, W., Ross, H. J., Khush, et al
2019: e13692
- **A modified implantation technique for temporary right ventricular assist device: Enabling ambulation and less invasive decannulation.** *Journal of cardiac surgery*
Rinewalt, D., Shudo, Y., MacArthur, J. W., Woo, Y. J., Hiesinger, W.
2019
- **Risk of reoperative valve surgery for endocarditis associated with drug use.** *The Journal of thoracic and cardiovascular surgery*
Mori, M., Bin Mahmood, S. U., Schranz, A. J., Sultan, I., Axtell, A. L., Sarsour, N., Hiesinger, W., Boskovski, M. T., Hirji, S., Kaneko, T., Woo, J., Tang, P., Jassar, et al
2019
- **Predicting Transfusions During Left Ventricular Assist Device Implant: Peri-Operative Transfusions with LVAD Implantation.** *Seminars in thoracic and cardiovascular surgery*
Miller, R. J., Gregory, A. J., Kent, W., Banerjee, D., Hiesinger, W., Clarke, B.
2019
- **Contemporary Use of Glycoprotein IIb/IIIa Inhibitors in Patients with Left Ventricular Assist Devices**
Duclos, S., Matsuda, K., Jimenez, S., Wheeler, M., Sallam, K., Hiesinger, W., Banerjee, D.
ELSEVIER SCIENCE INC.2019: S423-S424
- **Impact of Concomitant Valvular Surgery on Patients Undergoing LVAD Implantation**
Mulumba, K. Y., Kasinpila, P., Fong, R., Kong, S., Hecker, L., Nissan, R., Banerjee, D., Teuteberg, J., Shudo, Y., Woo, Y., Hiesinger, W.
ELSEVIER SCIENCE INC.2019: S72-S73
- **Improving Nutrition Practices for Critically Ill Postoperative Heart Transplant and Ventricular Assist Device Implant Patients**
Modir, R., Rao, V., Teuteberg, J., Banerjee, D., Oyer, P., Tulu, Z., Hadhazy, E., Hiesinger, W., Jimenez, S., Tu, L., Hill, C.
ELSEVIER SCIENCE INC.2019: S217
- **The Gift That Keeps on Giving? The Impact of Donor Coronary Atherosclerosis on the Development of Coronary Allograft Vasculopathy by IVUS**
Moayed, Y., Fan, C. S., Miller, R. J., Tremblay-Gravel, M., Kawana, M., Luikart, H. I., D'Emilio, N., Gordon, J., Parizo, J. T., Oro, G., Wainwright, R., Hiesinger, W., Manliot, et al
ELSEVIER SCIENCE INC.2019: S218-S219
- **Directly to a DOAC? Safety of Alternatives to Warfarin for Anticoagulation in Heart Transplantation**

Tremblay-Gravel, M., Alexander, K. M., Czobor, P., Lee, R., Foroutan, F., Yang, W. A., Hayes, A., Hiesinger, W., Ross, H. J., Khush, K. K., Teuteberg, J. J., Moayed, Y.
ELSEVIER SCIENCE INC.2019: S389

- **Impact of Surgical Approach in Double Lung Transplantation: Median Sternotomy Decreases Operative and Cardiopulmonary Bypass Time Compared to Clamshell Thoracotomy**
Shudo, Y., Rinewalt, D., Lingala, B., Kim, F. Y., He, H., Boyd, J. H., Lee, A. M., Hiesinger, W., Currie, M. E., MacArthur, J. W., Woo, J.
ELSEVIER SCIENCE INC.2019: S414
- **Comprehensive Analysis of Differential Expressed Genes Related with Myocardial Reverse Remodeling Following HeartWare Ventricular Assist Device Implantation**
Shudo, Y., Jaatinen, K. J., Nishiga, M., Chen, I. Y., Greene, C. L., Koyano, T. K., Fong, R. W., Boyd, J. H., Lee, A. M., Hiesinger, W., Woo, J.
ELSEVIER SCIENCE INC.2019: S244
- **Evaluation of Risk Factors for Heart-Lung Transplant Recipient Outcome: An Analysis of the United Network for Organ Sharing Database.** *Circulation*
Shudo, Y. n., Wang, H. n., Lingala, B. n., He, H. n., Kim, F. Y., Hiesinger, W. n., Lee, A. M., Boyd, J. H., Currie, M. n., Woo, Y. J.
2019; 140 (15): 1261–72
- **Successful Repair of Type A Aortic Dissection in an Octogenarian With Double Aortic Arch.** *The Annals of thoracic surgery*
Zeigler, S. M., Hiesinger, W.
2019; 107 (1): e19–e21
- **Transplant Outcomes in Destination Therapy Left Ventricular Assist Device Patients.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*
Miller, R. J., Moayed, Y. n., Sharma, A. n., Haddad, F. n., Hiesinger, W. n., Banerjee, D. n.
2019
- **The Incremental Value of Right Ventricular Size and Strain in the Risk Assessment of Right Heart Failure Post - Left Ventricular Assist Device Implantation.** *Journal of cardiac failure*
Aymami, M., Amsallem, M., Adams, J., Sallam, K., Moneghetti, K., Wheeler, M., Hiesinger, W., Teuteberg, J., Weisshaar, D., Verhoye, J., Woo, Y. J., Ha, R., Haddad, et al
2018; 24 (12): 823–32
- **Planned Concomitant Left and Right Ventricular Assist Device Insertion to Avoid Long-term Biventricular Mechanical Support: Bridge to Right Ventricular Recovery.** *The heart surgery forum*
Salna, M., Shudo, Y., Teuteberg, J. J., Banerjee, D., Ha, R. V., Woo, Y. J., Hiesinger, W.
2018; 21 (5): E412–E414
- **Right ventricular load adaptability metrics in patients undergoing left ventricular assist device implantation.** *The Journal of thoracic and cardiovascular surgery*
Amsallem, M., Aymami, M., Hiesinger, W., Zeigler, S., Moneghetti, K., Marques, M., Teuteberg, J., Ha, R., Banerjee, D., Haddad, F.
2018
- **Transplant Outcomes in Destination Therapy vs Bridge to Transplant LVAD Patients**
Miller, R. J., Moyaedi, Y., Sharma, A., Zarafshar, S., Varr, B., Haddad, F., Hiesinger, W., Banerjee, D.
ELSEVIER SCIENCE INC.2018: S434–S435
- **RIGHT VENTRICULAR LOAD ADAPTABILITY IN PATIENTS UNDERGOING CONTINUOUS-FLOW LEFT VENTRICULAR ASSIST DEVICE IMPLANTATION**
Amsallem, M., Aymami, M., Hiesinger, W., Zeigler, S., Moneghetti, K., Marques, M., Wheeler, M., Teuteberg, J., Ha, R., Banerjee, D., Haddad, F.
ELSEVIER SCIENCE INC.2018: 1624
- **Prolonged veno-arterial extracorporeal life support for cardiac failure.** *The International journal of artificial organs*
Guenther, S. P., Shudo, Y. n., Hiesinger, W. n., Banerjee, D. n.
2018: 391398818777359
- **Injectable Bioengineered Hydrogel Therapy in the Treatment of Ischemic Cardiomyopathy.** *Current treatment options in cardiovascular medicine*
MacArthur, J. W., Steele, A. N., Goldstone, A. B., Cohen, J. E., Hiesinger, W., Woo, Y. J.
2017; 19 (4): 30-?
- **Operative technique and pitfalls in donor heart procurement.** *Asian cardiovascular & thoracic annals*
Shudo, Y., Hiesinger, W., Oyer, P. E., Woo, Y. J.

2017; 25 (1): 80-82

- **An innovative biologic system for photon-powered myocardium in the ischemic heart.** *Science advances*
Cohen, J. E., Goldstone, A. B., Paulsen, M. J., Shudo, Y. n., Steele, A. N., Edwards, B. B., Patel, J. B., MacArthur, J. W., Hopkins, M. S., Burnett, C. E., Jaatinen, K. J., Thakore, A. D., Farry, et al
2017; 3 (6): e1603078
- **Biochemically engineered stromal cell-derived factor 1-alpha analog increases perfusion in the ischemic hind limb.** *Journal of vascular surgery*
Edwards, B. B., Fairman, A. S., Cohen, J. E., Macarthur, J. W., Goldstone, A. B., Woo, J. B., Hiesinger, W., Woo, Y. J.
2016; 64 (4): 1093-1099
- **Cell transplantation in heart failure: where do we stand in 2016?** *EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY*
MacArthur, J. W., Goldstone, A. B., Cohen, J. E., Hiesinger, W., Woo, Y.
2016; 50 (3): 396-99
- **Hybrid coronary revascularization: Ready for prime time, but who should star?** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Hiesinger, W., Atluri, P.
2016; 151 (4): 1090-91
- **Building a better bridge: Remodeling, recovery, and a better understanding of the biologic foundation of mechanical circulatory support** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Hiesinger, W., Atluri, P.
2015; 150 (5): 1342-43
- **A Tissue-Engineered Chondrocyte Cell Sheet Induces Extracellular Matrix Modification to Enhance Ventricular Biomechanics and Attenuate Myocardial Stiffness in Ischemic Cardiomyopathy** *TISSUE ENGINEERING PART A*
Shudo, Y., Cohen, J. E., MacArthur, J. W., Goldstone, A. B., Otsuru, S., Trubelja, A., Patel, J., Edwards, B. B., Hung, G., Fairman, A. S., Brusalis, C., Hiesinger, W., Atluri, et al
2015; 21 (19-20): 2515-2525
- **A "Repair-All" Strategy for Degenerative Mitral Valve Disease Safely Minimizes Unnecessary Replacement** *ANNALS OF THORACIC SURGERY*
Goldstone, A. B., Cohen, J. E., Howard, J. L., Edwards, B. B., Acker, A. L., Hiesinger, W., MacArthur, J. W., Atluri, P., Woo, Y. J.
2015; 99 (6): 1983-1991
- **A "Repair-All" Strategy for Degenerative Mitral Valve Disease Safely Minimizes Unnecessary Replacement.** *Annals of thoracic surgery*
Goldstone, A. B., Cohen, J. E., Howard, J. L., Edwards, B. B., Acker, A. L., Hiesinger, W., MacArthur, J. W., Atluri, P., Woo, Y. J.
2015; 99 (6): 1983-1990
- **Ventricular assist device implantation in the elderly.** *Annals of cardiothoracic surgery*
Hiesinger, W., Boyd, J. H., Woo, Y. J.
2014; 3 (6): 570-572
- **Bioengineered Stromal Cell- Derived Factor-1 alpha Analogue Delivered as an Angiogenic Therapy Significantly Restores Viscoelastic Material Properties of Infarcted Cardiac Muscle** *JOURNAL OF BIOMECHANICAL ENGINEERING-TRANSACTIONS OF THE ASME*
Trubelja, A., MacArthur, J. W., Sarver, J. J., Cohen, J. E., Hung, G., Shudo, Y., Fairman, A. S., Patel, J., Edwards, B. B., Damrauer, S. M., Hiesinger, W., Atluri, P., Woo, et al
2014; 136 (8)
- **A bioengineered hydrogel system enables targeted and sustained intramyocardial delivery of neuregulin, activating the cardiomyocyte cell cycle and enhancing ventricular function in a murine model of ischemic cardiomyopathy.** *Circulation. Heart failure*
Cohen, J. E., Purcell, B. P., Macarthur, J. W., Mu, A., Shudo, Y., Patel, J. B., Brusalis, C. M., Trubelja, A., Fairman, A. S., Edwards, B. B., Davis, M. S., Hung, G., Hiesinger, et al
2014; 7 (4): 619-626
- **Preclinical evaluation of the engineered stem cell chemokine stromal cell-derived factor 1a analog in a translational ovine myocardial infarction model.** *Circulation research*
Macarthur, J. W., Cohen, J. E., McGarvey, J. R., Shudo, Y., Patel, J. B., Trubelja, A., Fairman, A. S., Edwards, B. B., Hung, G., Hiesinger, W., Goldstone, A. B., Atluri, P., Wilensky, et al
2014; 114 (4): 650-659
- **Therapeutic potential of Rb phosphorylation in atherosclerosis** *CELL CYCLE*
Hiesinger, W., Cohen, J. E., Atluri, P.

2014; 13 (3): 352

- **Sustained release of engineered stromal cell-derived factor 1-a from injectable hydrogels effectively recruits endothelial progenitor cells and preserves ventricular function after myocardial infarction.** *Circulation*
MacArthur, J. W., Purcell, B. P., Shudo, Y., Cohen, J. E., Fairman, A., Trubelja, A., Patel, J., Hsiao, P., Yang, E., Lloyd, K., Hiesinger, W., Atluri, P., Burdick, et al
2013; 128 (11): S79-86
- **Predicting Right Ventricular Failure in the Modern, Continuous Flow Left Ventricular Assist Device Era** *59th Annual Meeting of the Southern-Thoracic-Surgical-Association (STSA)*
Atluri, P., Goldstone, A. B., Fairman, A. S., MacArthur, J. W., Shudo, Y., Cohen, J. E., Acker, A. L., Hiesinger, W., Howard, J. L., Acker, M. A., Woo, Y. J.
ELSEVIER SCIENCE INC.2013: 857-64
- **Rapid onset of fulminant myocarditis portends a favourable prognosis and the ability to bridge mechanical circulatory support to recovery** *EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY*
Atluri, P., Ullery, B. W., MacArthur, J. W., Goldstone, A. B., Fairman, A. S., Hiesinger, W., Acker, M. A., Woo, Y. J.
2013; 43 (2): 379-382
- **Mathematically engineered stromal cell-derived factor-1 alpha stem cell cytokine analog enhances mechanical properties of infarcted myocardium** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
MacArthur, J. W., Trubelja, A., Shudo, Y., Hsiao, P., Fairman, A. S., Yang, E., Hiesinger, W., Sarver, J. J., Atluri, P., Woo, Y. J.
2013; 145 (1): 278-284
- **Re-Engineered Stromal Cell-Derived Factor-1 alpha and the Future of Translatable Angiogenic Polypeptide Design** *TRENDS IN CARDIOVASCULAR MEDICINE*
Hiesinger, W., Goldstone, A. B., Woo, Y. J.
2012; 22 (6): 139-144
- **Myocardial tissue elastic properties determined by atomic force microscopy after stromal cell-derived factor 1 alpha angiogenic therapy for acute myocardial infarction in a murine model** *37th Annual Meeting of the Western-Thoracic-Surgical-Association*
Hiesinger, W., Brukman, M. J., McCormick, R. C., Fitzpatrick, J. R., Frederick, J. R., Yang, E. C., Muenzer, J. R., Marotta, N. A., Berry, M. F., Atluri, P., Woo, Y. J.
MOSBY-ELSEVIER.2012: 962-66
- **Oxygen-dependent quenching of phosphorescence used to characterize improved myocardial oxygenation resulting from vasculogenic cytokine therapy** *JOURNAL OF APPLIED PHYSIOLOGY*
Hiesinger, W., Vinogradov, S. A., Atluri, P., Fitzpatrick, J. R., Frederick, J. R., Levit, R. D., McCormick, R. C., Muenzer, J. R., Yang, E. C., Marotta, N. A., MacArthur, J. W., Wilson, D. F., Woo, et al
2011; 110 (5): 1460-1465
- **Computational Protein Design to Re-Engineer Stromal Cell-Derived Factor-alpha (SDF) Generates a Supra-Efficient Angiogenic Polypeptide Analog**
Hiesinger, W., Perez-Aguilar, J., Atluri, P., Marotta, N. A., Frederick, J. R., Fitzpatrick, J. R., McCormick, R. C., Muenzer, J. R., Levit, R. D., Yuan, L., MacArthur, J. W., Saven, J. G., Woo, et al
LIPPINCOTT WILLIAMS & WILKINS.2010
- **Acute Myocardial Rescue with Endogenous Endothelial Progenitor Cell Therapy** *HEART LUNG AND CIRCULATION*
Atluri, P., Panlilio, C. M., Liao, G. P., Hiesinger, W., Harris, D. A., McCormick, R. C., Cohen, J. E., Jin, T., Feng, W., Levit, R. D., Dong, N., Woo, Y. J.
2010; 19 (11): 644-654
- **Spliced stromal cell-derived factor-1 alpha analog stimulates endothelial progenitor cell migration and improves cardiac function in a dose-dependent manner after myocardial infarction** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Hiesinger, W., Frederick, J. R., Atluri, P., McCormick, R. C., Marotta, N., Muenzer, J. R., Woo, Y. J.
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