

# Stanford

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## John W. MacArthur

Assistant Professor of Cardiothoracic Surgery (Adult Cardiac Surgery)

### CLINICAL OFFICE (PRIMARY)

- **Thoracic Surgery**

300 Pasteur Dr

CVRB Bldg MC 5407

Stanford, CA 94305

**Tel** (650) 723-6649

**Fax** (650) 725-3846

### ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Justine Santiago - Administrative Associate

**Email** justine6@stanford.edu

**Tel** 650-724-0831

### Bio

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#### CLINICAL FOCUS

- Thoracic and Cardiac Surgery

#### ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Cardiothoracic Surgery
- Member, Cardiovascular Institute

#### PROFESSIONAL EDUCATION

- Board Certification: Thoracic and Cardiac Surgery, American Board of Thoracic Surgery (2019)
- Fellowship: Stanford University Thoracic Surgery Fellowship (2018) CA
- Board Certification, Cardiothoracic Surgery, American Board of Thoracic Surgery (2019)
- Fellowship: Stanford University Dept of Cardiothoracic Surgery (2018) CA
- Board Certification: General Surgery, American Board of Surgery (2016)
- Residency: Hospital of University of Pennsylvania Surgery Residency (2016) PA
- Medical Education: Columbia University College of Physicians and Surgeons (2008) NY

### Research & Scholarship

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#### CLINICAL TRIALS

- 2019-06 TRISCEND Study, Recruiting
- MitraClip REPAIR MR Study, Recruiting

### Teaching

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#### COURSES

2023-24

- Introduction to Cardiothoracic Surgery: CTS 203 (Spr)

#### 2022-23

- Introduction to Cardiothoracic Surgery: CTS 203 (Win)

#### 2021-22

- Introduction to Cardiothoracic Surgery: CTS 203 (Spr)

#### 2020-21

- Introduction to Cardiothoracic Surgery: CTS 203 (Spr)

## Publications

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### PUBLICATIONS

- **Beating Heart Transplantation: How to Do It.** *Innovations (Philadelphia, Pa.)*  
Krishnan, A., Guenthart, B. A., Ruengesri, C., Elde, S., Zhu, Y., MacArthur, J. W., Woo, Y. J.  
2024: 15569845231220678
- **Reconstruction of the aorta and pulmonary artery during heart-liver transplantation in an adult congenital patient.** *JTCVS techniques*  
Mullis, D. M., Limbu, L., Bonham, C. A., MacArthur, J. W.  
2023; 21: 129-131
- **Blood transfusion in cardiac surgeries - Toward a personalized protocol.** *American journal of surgery*  
Min, Y., Dalal, A. R., Pedroza, A. J., Pham, T. D., Panigrahi, A. K., Goldstone, A. B., MacArthur, J. W., Woo, Y. J., Baiocchi, M., Fischbein, M. P.  
2023
- **Successful Heart Transplants from Over 2,000 Miles Away.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*  
Weininger, G., Choi, A. Y., Joseph Woo, Y., MacArthur, J. W.  
2023
- **Percutaneous Bailout Technique for Trapping an Embolized Valve During Valve-in-Valve TAVR.** *The Journal of invasive cardiology*  
Stathogiannis, K. E., MacArthur, J. W., Lee, J. T., Sharma, R. P.  
2023; 35 (3): E160
- **Strategies for Transcatheter Aortic Valve Replacement in Patients With a Right Aortic Arch.** *Structural heart : the journal of the Heart Team*  
Wang, H., Akanbi, O., MacArthur, J. W., Sharma, R. P.  
2023; 7 (2): 100099
- **Blood transfusion in aortic root surgery impairs midterm survival.** *JTCVS open*  
Dalal, A. R., Pedroza, A. J., Krishnan, A., Min, Y., Tognozzi, E., Yokoyama, N., Nakamura, K., Mitchel, O. R., Baiocchi, M., Woo, Y. J., MacArthur, J. W., Fischbein, M. P.  
2023; 13: 9-19
- **Outcomes after concomitant arch replacement at the time of aortic root surgery.** *JTCVS open*  
Krishnan, A., Dalal, A. R., Pedroza, A. J., Nakamura, K., Yokoyama, N., Tognozzi, E., Woo, Y. J., Fischbein, M., MacArthur, J. W.  
2023; 13: 1-8
- **Outcomes of Reoperative Aortic Root Replacement After Previous Acute Type A Dissection Repair.** *Seminars in thoracic and cardiovascular surgery*  
Pedroza, A. J., Dalal, A. R., Krishnan, A., Yokoyama, N., Nakamura, K., Tognozzi, E., Woo, Y. J., MacArthur, J. W., Fischbein, M. P.  
2023
- **Surgical management of severe mitral annular calcification.** *Asian cardiovascular & thoracic annals*  
Elde, S., Zhu, Y., MacArthur, J. W., Woo, Y. J.  
2022: 2184923221136935
- **Resection of a synovial cell sarcoma by cardiac autotransplantation: A case report.** *JTCVS techniques*  
Mullis, D. M., Zhu, Y., Guenthart, B. A., Bonham, S. A., Trope, W. L., Berry, G. J., Woo, Y. J., MacArthur, J. W.

2022; 16: 123-127

- **Intraoperative Considerations in a Patient on Intravenous Epoprostenol Undergoing Minimally Invasive Cardiac Surgery.** *Journal of cardiothoracic and vascular anesthesia*  
Tull, C. M., Abraham, A. M., MacArthur, J. W., Vanneman, M. W., Feng, T. R.  
2022
- **Extracorporeal membrane oxygenator as a bridge to heart-liver en bloc transplant in a patient with Fontan circulation.** *JTCVS techniques*  
Kim, J. L., Vaikunth, S. S., Haeffele, C., MacArthur, J. W.  
2022; 12: 171-174
- **Continuous Serratus Anterior Plane Block: A Team Approach** *JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA*  
Kim, R. K., Brodt, J., MacArthur, J. W., Tsui, B. H.  
2022; 36 (4): 1217-+
- **Applications of Tissue Decellularization Techniques in Ventricular Myocardial Biofabrication.** *Frontiers in bioengineering and biotechnology*  
Krishnan, A., Wang, H., MacArthur, J. W.  
2022; 10: 802283
- **Post-Transplant Extracorporeal Membrane Oxygenation for Severe Primary Graft Dysfunction to Support the Use of Marginal Donor Hearts.** *Transplant international : official journal of the European Society for Organ Transplantation*  
Shudo, Y., Alassar, A., Wang, H., Lingala, B., He, H., Zhu, Y., Hiesinger, W., MacArthur, J. W., Boyd, J. H., Lee, A. M., Currie, M., Woo, Y. J.  
2022; 35: 10176
- **Analysis of the revised heart allocation policy and the influence of increased mechanical circulatory support on survival.** *The Journal of thoracic and cardiovascular surgery*  
Elde, S., He, H., Lingala, B., Baiocchi, M., Wang, H., Hiesinger, W., MacArthur, J. W., Shudo, Y., Woo, Y. J.  
1800
- **Biomechanical engineering comparison of four leaflet repair techniques for mitral regurgitation using a novel 3-dimensional-printed left heart simulator** *JTCVS TECHNIQUES*  
Paulsen, M. J., Cuartas, M., Imbrie-Moore, A., Wang, H., Wilkerson, R., Farry, J., Zhu, Y., Ma, M., MacArthur, J. W., Woo, Y.  
2021; 10: 244-251
- **Extended Static Hypothermic Preservation In Cardiac Transplantation: A Case Report.** *Transplantation proceedings*  
Guenthart, B. A., Krishnan, A., Koyano, T., La Francesca, S., Chan, J., Alassar, A., MacArthur, J. W., Shudo, Y., Hiesinger, W., Woo, Y. J.  
2021
- **Resection of a Giant Epithelioid Hemangioendothelioma Arising from the Superior Vena Cava.** *The Annals of thoracic surgery*  
Elliott, I. A., Kasinpila, P., Guenthart, B. A., MacArthur, J. W., Berry, M. F.  
2021
- **Operative Technique of Donor Organ Procurement for En Bloc Heart-Liver Transplantation.** *Transplantation*  
Elde, S. n., Brubaker, A. L., Than, P. A., Rinewalt, D. n., MacArthur, J. W., Alassar, A. n., Bonham, C. A., Esquivel, C. O., Shudo, Y. n., Concepcion, W. n., Woo, Y. J.  
2021
- **First lung and kidney multi-organ transplant following COVID-19 Infection.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*  
Guenthart, B. A., Krishnan, A., Alassar, A., Madhok, J., Kakol, M., Miller, S., Cole, S. P., Rao, V. K., Acero, N. M., Hill, C. C., Cheung, C., Jackson, E. C., Feinstein, et al  
2021
- **Intracardiac paragangliomas: surgical approach and perioperative management.** *General thoracic and cardiovascular surgery*  
Guenthart, B. A., Trope, W., Keeyapaj, W., Weiel, J. J., Edmonson, A., MacArthur, J. W., Annes, J. P., Woo, Y. J., Lui, N. S.  
2020
- **Ex Vivo Analysis of a Porcine Bicuspid Aortic Valve and Aneurysm Disease Model.** *The Annals of thoracic surgery*  
Zhu, Y., Imbrie-Moore, A. M., Park, M. H., Paulsen, M. J., Wang, H., MacArthur, J. W., Woo, Y. J.  
2020

- **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
- **Relation of Length of Survival After Orthotopic Heart Transplantation to Age of the Donor.** *The American journal of cardiology*  
Shudo, Y., Guenther, S. P., Lingala, B., He, H., Hiesinger, W., MacArthur, J. W., Currie, M. E., Lee, A. M., Boyd, J. H., Woo, Y. J.  
2020
- **A novel cross-species model of Barlow's disease to biomechanically analyze repair techniques in an ex vivo left heart simulator.** *The Journal of thoracic and cardiovascular surgery*  
Imbrie-Moore, A. M., Paulsen, M. J., Zhu, Y., Wang, H., Lucian, H. J., Farry, J. M., MacArthur, J. W., Ma, M., Woo, Y. J.  
2020
- **Comprehensive Ex Vivo Comparison of 5 Clinically Used Conduit Configurations for Valve-Sparing Aortic Root Replacement Using a 3-Dimensional-Printed Heart Simulator.** *Circulation*  
Paulsen, M. J., Imbrie-Moore, A. M., Baiocchi, M. n., Wang, H. n., Hironaka, C. E., Lucian, H. J., Farry, J. M., Thakore, A. D., Zhu, Y. n., Ma, M. n., MacArthur, J. W., Woo, Y. J.  
2020; 142 (14): 1361–73
- **Operative Techniques and Pitfalls in Donor Bilateral Lung Procurement.** *Transplantation proceedings*  
Dalal, A. R., Rinewalt, D. E., MacArthur, J. W., Shudo, Y. n., Woo, Y. J.  
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
- **Signalosome-Regulated SRF Phosphorylation Determining Myocyte Growth in Width versus Length as a Therapeutic Target for Heart Failure.** *Circulation*  
Li, J. n., Tan, Y. n., Passariello, C. L., Martinez, E. C., Kritzer, M. D., Li, X. n., Li, X. n., Li, Y. n., Yu, Q. n., Ohgi, K. n., Thakur, H. n., MacArthur, J. W., Ivey, et al  
2020
- **A Bioengineered Neuregulin-Hydrogel Therapy Reduces Scar Size and Enhances Post-Infarct Ventricular Contractility in an Ovine Large Animal Model.** *Journal of cardiovascular development and disease*  
Cohen, J. E., Goldstone, A. B., Wang, H. n., Purcell, B. P., Shudo, Y. n., MacArthur, J. W., Steele, A. N., Paulsen, M. J., Edwards, B. B., Aribean, C. N., Cheung, N. C., Burdick, J. A., Woo, et al  
2020; 7 (4)
- **Three-Dimensional Multi-layered Microstructure using Laser Direct-Writing System.** *Tissue engineering. Part A*  
Shudo, Y. n., MacArthur, J. W., Kunitomi, Y. n., Joubert, L. M., Kawamura, M. n., Ono, J. n., Thakore, A. D., Jaatinen, K. J., Eskandari, A. n., Hironaka, C. E., Shin, H. S., Woo, Y. J.  
2020
- **Mitral chordae tendineae force profile characterization using a posterior ventricular anchoring neochordal repair model for mitral regurgitation in a three-dimensional-printed ex vivo left heart simulator.** *European journal of cardio-thoracic surgery : official journal of the European Association for Cardio-thoracic Surgery*  
Paulsen, M. J., Imbrie-Moore, A. M., Wang, H., Bae, J. H., Hironaka, C. E., Farry, J. M., Lucian, H. J., Thakore, A. D., MacArthur, J. W., Cutkosky, M. R., Woo, Y. J.  
2019
- **Heart-lung transplantation with concomitant aortic arch reconstruction for Eisenmenger syndrome and type B interrupted aortic arch.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*  
Wang, H., Shudo, Y., MacArthur, J. W., Woo, Y. J.  
2019
- **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

- **Bioengineered analog of stromal cell-derived factor 1 alpha preserves the biaxial mechanical properties of native myocardium after infarction** *JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS*  
Wang, H., Wisneski, A., Paulsen, M. J., Imbrie-Moore, A., Wang, Z., Xuan, Y., Hernandez, H., Lucian, H. J., Eskandari, A., Thakore, A. D., Parry, J. M., Hironaka, C. E., von Bornstaedt, et al  
2019; 96: 165–71
- **Surgical Management for Aortoesophageal Fistula After Endovascular Aortic Repair.** *The Annals of thoracic surgery*  
Zhu, Y. n., MacArthur, J. W., Lui, N. n., Lee, A. M.  
2019
- **Surgical excision of a free floating ascending aortic thrombus.** *Journal of cardiac surgery*  
Dalal, A. R., Kabirpour, A. n., MacArthur, J. W.  
2019
- **Bioengineered analog of stromal cell-derived factor 1# preserves the biaxial mechanical properties of native myocardium after infarction.** *Journal of the mechanical behavior of biomedical materials*  
Wang, H. n., Wisneski, A. n., Paulsen, M. J., Imbrie-Moore, A. n., Wang, Z. n., Xuan, Y. n., Hernandez, H. L., Lucian, H. J., Eskandari, A. n., Thakore, A. D., Farry, J. M., Hironaka, C. E., von Bornstaedt, et al  
2019; 96: 165–71
- **A 3D Printed Ex Vivo Left Heart Simulator Quantifies and Validates Posterior Ventricular Anchoring Neochordoplasty**  
Paulsen, M. J., Bae, J., Imbrie-Moore, A. M., Wang, H., Farry, J. M., Lin, M. A., Hironaka, C. E., Lucian, H. J., Edwards, B. B., Thankore, A. D., MacArthur, J. W., Steele, A. N., Stapleton, et al  
LIPPINCOTT WILLIAMS & WILKINS.2018
- **Computationally-Engineered Analog of Stromal Cell-Derived Factor 1[alpha] Preserves the Mechanical Properties of Infarcted Myocardium Under Planar Biaxial Tension**  
Wang, H., Wisneski, A., Paulsen, M. J., Wang, Z., Hernandez, L., Xuan, Y., von Bornstaedt, D., Steele, A. N., Stapleton, L. M., Lucian, H. J., Anahita, E., Thakore, A. D., Farry, et al  
LIPPINCOTT WILLIAMS & WILKINS.2018
- **SDF 1-alpha Attenuates Myocardial Injury Without Altering the Direct Contribution of Circulating Cells** *JOURNAL OF CARDIOVASCULAR TRANSLATIONAL RESEARCH*  
Goldstone, A. B., Burnett, C. E., Cohen, J. E., Paulsen, M. J., Eskandari, A., Edwards, B. E., Ingason, A. B., Steele, A. N., Patel, J. B., MacArthur, J. W., Shizuru, J. A., Woo, Y.  
2018; 11 (4): 274–84
- **SDF 1-alpha Attenuates Myocardial Injury Without Altering the Direct Contribution of Circulating Cells.** *Journal of cardiovascular translational research*  
Goldstone, A. B., Burnett, C. E., Cohen, J. E., Paulsen, M. J., Eskandari, A., Edwards, B. E., Ingason, A. B., Steele, A. N., Patel, J. B., MacArthur, J. W., Shizuru, J. A., Woo, Y. J.  
2018
- **The tip of the iceberg: Evaluating the mechanism behind dehiscence of mitral annuloplasty rings.** *The Journal of thoracic and cardiovascular surgery*  
MacArthur, J. W., Boyd, J.  
2017
- **Stem Cell Therapy: Healing or Hype? Why Stem Cell Delivery Doesn't Work** *CIRCULATION RESEARCH*  
Steele, A. N., MacArthur, J. W., Woo, Y.  
2017; 120 (12): 1868–70
- **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-?
- **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
- **Isolation and trans-differentiation of mesenchymal stromal cells into smooth muscle cells: Utility and applicability for cell-sheet engineering.** *Cytotherapy*  
Shudo, Y., Cohen, J. E., Goldstone, A. B., MacArthur, J. W., Patel, J., Edwards, B. B., Hopkins, M. S., Steele, A. N., Joubert, L., Miyagawa, S., Sawa, Y., Woo, Y. J.  
2016; 18 (4): 510-517
- **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
- **Evaluation of late aortic insufficiency with continuous flow left ventricular assist device†.** *European journal of cardio-thoracic surgery*  
Hiraoka, A., Cohen, J. E., Shudo, Y., MacArthur, J. W., Howard, J. L., Fairman, A. S., Atluri, P., Kirkpatrick, J. N., Woo, Y. J.  
2015; 48 (3): 400-406
- **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
- **Non-resectional leaflet remodeling mitral valve repair preserves leaflet mobility: A quantitative echocardiographic analysis of mitral valve configuration** *INTERNATIONAL JOURNAL OF CARDIOLOGY*  
Shudo, Y., Cohen, J. E., MacArthur, J. W., Goldstone, A. B., Hiraoka, A., Howard, J., Fairman, A. S., Patel, J., Edwards, B. B., Atluri, P., Woo, Y. J.  
2015; 186: 16-18
- **Shear-Thinning Supramolecular Hydrogels with Secondary Autonomous Covalent Crosslinking to Modulate Viscoelastic Properties In Vivo** *ADVANCED FUNCTIONAL MATERIALS*  
Rodell, C. B., MacArthur, J. W., Dorsey, S. M., Wade, R. J., Wang, L. L., Woo, Y. J., Burdick, J. A.  
2015; 25 (4): 636-644
- **Shear-Thinning Supramolecular Hydrogels with Secondary Autonomous Covalent Crosslinking to Modulate Viscoelastic Properties In Vivo.** *Advanced functional materials*  
Rodell, C. B., MacArthur, J. W., Dorsey, S. M., Wade, R. J., Wang, L. L., Woo, Y. J., Burdick, J. A.  
2015; 25 (4): 636-644
- **Natural history of coexistent tricuspid regurgitation in patients with degenerative mitral valve disease: Implications for future guidelines** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*  
Goldstone, A. B., Howard, J. L., Cohen, J. E., MacArthur, J. W., Atluri, P., Kirkpatrick, J. N., Woo, Y. J.  
2014; 148 (6): 2802-2809
- **Tissue-engineered, hydrogel-based endothelial progenitor cell therapy robustly revascularizes ischemic myocardium and preserves ventricular function.** *journal of thoracic and cardiovascular surgery*  
Atluri, P., Miller, J. S., Emery, R. J., Hung, G., Trubelja, A., Cohen, J. E., Lloyd, K., Han, J., Gaffey, A. C., MacArthur, J. W., Chen, C. S., Woo, Y. J.  
2014; 148 (3): 1090-1098
- **Combined heart and liver transplantation can be safely performed with excellent short- and long-term results.** *Annals of thoracic surgery*  
Atluri, P., Gaffey, A., Howard, J., Phillips, E., Goldstone, A. B., Hornsby, N., MacArthur, J. W., Cohen, J. E., Gutsche, J., Woo, Y. J.  
2014; 98 (3): 858-862
- **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