

# Stanford

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## Karim Sallam, MD

Assistant Professor of Medicine (Cardiovascular Medicine) at the Stanford University Medical Center

Medicine - Cardiovascular Medicine

### CLINICAL OFFICES

- **Falk Cardiovascular Research Building**

300 Pasteur Dr

MC 5406

Stanford, CA 94305

**Tel** (650) 736-7878

**Fax** (650) 498-7452

### Bio

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### BIO

Karim Sallam, MD, is trained in Cardiovascular Medicine and Advanced Heart Failure.

### CLINICAL FOCUS

- Cardiovascular Medicine
- Advanced Heart Failure
- Cardiovascular Disease

### ACADEMIC APPOINTMENTS

- Assistant Professor - Med Center Line, Medicine - Cardiovascular Medicine

### HONORS AND AWARDS

- Highest Performance in Medicine, James D. Heard Junior Prize (2006)
- Compassion and Humanism, Jeffrey Alan Grey Memorial Prize (2006)
- Empathetic, Sensitive and Respectful Behavior, Leonard Tow Humanism in Medicine Student Award (2006)
- Exemplary Professionalism Award, Stanford Medicine Residency Program (2007/2008)

### PROFESSIONAL EDUCATION

- Board Certification: Advanced Heart Failure and Transplant Cardiology, American Board of Internal Medicine (2016)
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2013)
- Fellowship: Stanford Hospital and Clinics (2015) CA
- Residency: Stanford University Medical Center (2013) CA
- Fellowship: Stanford University School of Medicine (2015) CA
- Board Certification: Internal Medicine, American Board of Internal Medicine (2009)
- Medical Education: University of Pittsburgh Medical Center (2006) PA

## LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

## Publications

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### PUBLICATIONS

- **HIF1 $\beta$  Regulates Early Metabolic Changes due to Activation of Innate Immunity in Nuclear Reprogramming.** *Stem cell reports*  
Liu, C., Ruan, H., Himmati, F., Zhao, M. T., Chen, C. C., Makar, M., Chen, I. Y., Sallam, K., Mocarski, E. S., Sayed, D., Sayed, N.  
2020; 14 (2): 192–200
- **Targeted and Selective Treatment of Pluripotent Stem Cell-derived Teratomas Using External Beam Radiation in a Small-animal Model.** *Journal of visualized experiments : JoVE*  
Sallam, K., Rhee, J., Chour, T., D'addabbo, J., Lee, A. S., Graves, E., Nguyen, P. K.  
2019
- **Targeted and Selective Treatment of Pluripotent Stem Cell-derived Teratomas Using External Beam Radiation in a Small-animal Model** *JOVE-JOURNAL OF VISUALIZED EXPERIMENTS*  
Sallam, K., Rhee, J., Chour, T., D'addabbo, J., Lee, A. S., Graves, E., Nguyen, P. K.  
2019
- **Electronic Cigarettes: Where There Is Smoke There Is Disease.** *Journal of the American College of Cardiology*  
Wu, J. C., Rhee, J. W., Sallam, K.  
2019; 74 (25): 3121–23
- **Modelling diastolic dysfunction in induced pluripotent stem cell-derived cardiomyocytes from hypertrophic cardiomyopathy patients.** *European heart journal*  
Wu, H., Yang, H., Rhee, J. W., Zhang, J. Z., Lam, C. K., Sallam, K., Chang, A. C., Ma, N., Lee, J., Zhang, H., Blau, H. M., Bers, D. M., Wu, et al  
2019
- **Activation of PDGF pathway links LMNA mutation to dilated cardiomyopathy.** *Nature*  
Lee, J., Termglinchan, V., Diecke, S., Itzhaki, I., Lam, C. K., Garg, P., Lau, E., Greenhaw, M., Seeger, T., Wu, H., Zhang, J. Z., Chen, X., Gil, et al  
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
- **Genome Editing of Induced Pluripotent Stem Cells to Decipher Cardiac Channelopathy Variant.** *Journal of the American College of Cardiology*  
Garg, P., Oikonomopoulos, A., Chen, H., Li, Y., Lam, C. K., Sallam, K., Perez, M., Lux, R. L., Sanguinetti, M. C., Wu, J. C.  
2018; 72 (1): 62–75
- **RIGHT HEART MALADAPTIVE PHENOTYPES AND PREDICTION OF RIGHT HEART FAILURE FOLLOWING CONTINUOUS-FLOW LEFT VENTRICULAR ASSIST DEVICE IMPLANTATION**  
Aymami, M., Haddad, F., Amsallem, M., Wheeler, M., Moneghetti, K., Adams, J., Verhoye, J., Sallam, K., Woo, Y., Ha, R., Banerjee, D.  
ELSEVIER SCIENCE INC.2018: 652
- **Transcriptomic and epigenomic differences in human induced pluripotent stem cells generated from six reprogramming methods** *NATURE BIOMEDICAL ENGINEERING*  
Churko, J. M., Lee, J., Ameen, M., Gu, M., Venkatasubramanian, M., Diecke, S., Sallam, K., Im, H., Wang, G., Gold, J. D., Salomonis, N., Snyder, M. P., Wu, et al  
2017; 1 (10): 826–37
- **Simultaneous ramp right heart catheterization and echocardiography in a ReliantHeart left ventricular assist device.** *World journal of cardiology*  
Banerjee, D., Dutt, D., Duclos, S., Sallam, K., Wheeler, M., Ha, R.  
2017; 9 (1): 55-59
- **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)
- **Transcriptomic and epigenomic differences in human induced pluripotent stem cells generated from six reprogramming methods.** *Nature biomedical engineering*  
Churko, J. M., Lee, J., Ameen, M., Gu, M., Venkatasubramanian, M., Diecke, S., Sallam, K., Im, H., Wang, G., Gold, J. D., Salomonis, N., Snyder, M. P., Wu, et al  
2017; 1 (10): 826–37
  - **Patient-Specific and Genome-Edited Induced Pluripotent Stem Cell-Derived Cardiomyocytes Elucidate Single-Cell Phenotype of Brugada Syndrome.** *Journal of the American College of Cardiology*  
Liang, P., Sallam, K., Wu, H., Li, Y., Itzhaki, I., Garg, P., Zhang, Y., Vermglinchan, V., Lan, F., Gu, M., Gong, T., Zhuge, Y., He, et al  
2016; 68 (19): 2086-2096
  - **A Rapid, High-Quality, Cost-Effective, Comprehensive and Expandable Targeted Next-Generation Sequencing Assay for Inherited Heart Diseases.** *Circulation research*  
Wilson, K. D., Shen, P., Fung, E., Karakikes, I., Zhang, A., Inanloorahatloo, K., Odegaard, J., Sallam, K., Davis, R. W., Lui, G. K., Ashley, E. A., Scharfe, C., Wu, et al  
2015; 117 (7): 603-611
  - **Epigenetic Regulation of Phosphodiesterases 2A and 3A Underlies Compromised  $\beta$ -Adrenergic Signaling in an iPSC Model of Dilated Cardiomyopathy.** *Cell stem cell*  
Wu, H., Lee, J., Vincent, L. G., Wang, Q., Gu, M., Lan, F., Churko, J. M., Sallam, K. I., Matsa, E., Sharma, A., Gold, J. D., Engler, A. J., Xiang, et al  
2015; 17 (1): 89-100
  - **Finding the rhythm of sudden cardiac death: new opportunities using induced pluripotent stem cell-derived cardiomyocytes.** *Circulation research*  
Sallam, K., Li, Y., Sager, P. T., Houser, S. R., Wu, J. C.  
2015; 116 (12): 1989-2004
  - **Establishing disease causality for a novel gene variant in familial dilated cardiomyopathy using a functional in-vitro assay of regulated thin filaments and human cardiac myosin.** *BMC medical genetics*  
Pan, S., Sommese, R. F., Sallam, K. I., Nag, S., Sutton, S., Miller, S. M., Spudich, J. A., Ruppel, K. M., Ashley, E. A.  
2015; 16 (1): 97-?
  - **Human induced pluripotent stem cell-derived cardiomyocytes as an in vitro model for coxsackievirus B3-induced myocarditis and antiviral drug screening platform.** *Circulation research*  
Sharma, A., Marceau, C., Hamaguchi, R., Burridge, P. W., Rajarajan, K., Churko, J. M., Wu, H., Sallam, K. I., Matsa, E., Sturzu, A. C., Che, Y., Ebert, A., Diecke, et al  
2014; 115 (6): 556-566
  - **Modeling inherited cardiac disorders.** *Circulation journal*  
Sallam, K., Kodo, K., Wu, J. C.  
2014; 78 (4): 784-794
  - **Cardiac stem cell biology: glimpse of the past, present, and future.** *Circulation research*  
Matsa, E., Sallam, K., Wu, J. C.  
2014; 114 (1): 21-27
  - **Concomitant ECG findings and J wave patterns.** *Journal of electrocardiology*  
Sallam, K., Froelicher, V.  
2013; 46 (5): 399-403
  - **Drug screening using a library of human induced pluripotent stem cell-derived cardiomyocytes reveals disease-specific patterns of cardiotoxicity.** *Circulation*  
Liang, P., Lan, F., Lee, A. S., Gong, T., Sanchez-Freire, V., Wang, Y., Diecke, S., Sallam, K., Knowles, J. W., Wang, P. J., Nguyen, P. K., Bers, D. M., Robbins, et al  
2013; 127 (16): 1677-1691
  - **Natural History of Early Repolarization in the Inferior Leads** *ANNALS OF NONINVASIVE ELECTROCARDIOLOGY*  
Stein, R., Sallam, K., Adhikarla, C., Boga, M., Wood, A. D., Froelicher, V. F.  
2012; 17 (4): 331-339

- **Prognostic Implications of Q Waves and T-Wave Inversion Associated With Early Repolarization** *MAYO CLINIC PROCEEDINGS*  
Uberoi, A., Sallam, K., Perez, M., Jain, N. A., Ashley, E., Froelicher, V.  
2012; 87 (7): 614-619
- **COMPARISON OF EARLY REPOLARIZATION IN INFERIOR AND LATERAL LEADS** *61st Annual Scientific Session and Expo of the American-College-of-Cardiology (ACC)/Conference on ACC-i2 with TCT*  
Downing, N. L., Abhimanyu, Uberoi, M., Sallam, K., Sadik, J., Adhikarla, C., Froelicher, V.  
ELSEVIER SCIENCE INC.2012: E1940–E1940
- **Embryonic stem cell biology: insights from molecular imaging.** *Methods in molecular biology (Clifton, N.J.)*  
Sallam, K., Wu, J. C.  
2010; 660: 185-199