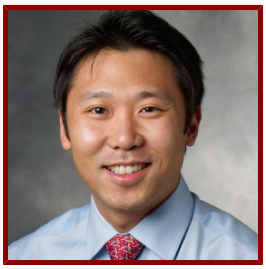
Stanford



Juyong Brian Kim

Assistant Professor of Medicine (Cardiovascular Medicine)

Medicine - Cardiovascular Medicine

CLINICAL OFFICE (PRIMARY)

- **Cardiovascular Medicine**

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  Stanford, CA 94305

  Tel (650) 725-2621 **Fax** (650) 725-6766

Bio

CLINICAL FOCUS

- Coronary Artery Disease
- Acute Coronary Syndrome
- Percutaneous Coronary Intervention
- Aortic Valve Stenosis
- Transcatheter Aortic Valve Replacement
- Hypertension
- hyperlipidemia
- Prevention
- Interventional Cardiology

ACADEMIC APPOINTMENTS

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

PROFESSIONAL EDUCATION

- Medical Education: NYU Grossman School of Medicine (2006) NY
- Fellowship, Stanford University School of Medicine , General Cardiology (2015)
- Fellowship, Stanford University School of Medicine , Interventional Cardiology (2014)
- Residency: UCLA Medical Center Internal Medicine (2009) CA
- MPH, Mailman School of Public Health, Columbia University , Health Policy (2006)
- BS, Massachusetts Institute of Technology , ChemE/Biology (2001)

LINKS

- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html
- The Cardiovascular Link to Environmental ActioN (CLEAN) Lab: http://med.stanford.edu/kimlab.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The lifetime risk of developing cardiovascular disease (CVD) is determined by the genetic makeup and exposure to modifiable risk factors. The Cardiovascular Link to Environmental ActioN (CLEAN) Lab is interested in understanding how various environmental pollutants (eg. tobacco, e-cigarettes, air pollution and wildfire) interact with genes to affect the transcriptome, epigenome, and eventually disease phenotype of CVD. The current focus is to investigate how different toxic exposures can adversely remodel the vascular wall leading to increased cardiac events. We intersect human genomic discoveries with animal models of disease, in-vitro and in-vivo systems of exposure, single-cell sequencing technologies to solve these questions. Additionally, we collaborate with various members of the Stanford community to develop biomarkers that will aid with detection and prognosis of CVD. We are passionate about the need to reduce the environmental effects on health through strong advocacy and outreach.

(http://kimlab.stanford.edu)

CLINICAL TRIALS

- A Study of Milvexian in Participants After a Recent Acute Coronary Syndrome, Recruiting
- Epicardial Delivery of XC001 Gene Therapy for Refractory Angina Coronary Treatment (The EXACT Trial), Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Guyu Qin, isabella damiani

Postdoctoral Research Mentor

isabella damiani

Publications

PUBLICATIONS

- **Associations of Sarcopenia and Body Composition Measures With Mortality After Transcatheter Aortic Valve Replacement.** *Circulation. Cardiovascular interventions*

  Stein, E. J., Neill, C., Nair, S., Terry, J. G., Carr, J. J., Fearon, W. F., Elmariah, S., Kim, J. B., Kapadia, S., Kumbhani, D. J., Gillam, L., Whisenant, B., Quader, et al

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- **Association of Depression and Cognitive Dysfunction With Patient-Centered Outcomes After Transcatheter Aortic Valve Replacement.** *Circulation. Cardiovascular interventions*

  El-Sabawi, B., Cloud, H., Patel, J. N., Bell, S. P., Elmariah, S., Fearon, W. F., Kim, J. B., Piana, R. N., Kapadia, S. R., Kumbhani, D. J., Gillam, L. D., Whisenant, B. K., Quader, et al

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- **Metabolic Signatures of Cardiac Dysfunction, Multimorbidity, and Post-Transcatheter Aortic Valve Implantation Death.** *Journal of the American Heart Association*

  Perry, A. S., Zhao, S., Murthy, V., Gupta, D. K., Fearon, W. F., Kim, J. B., Kapadia, S., Kumbhani, D. J., Gillam, L., Whisenant, B., Quader, N., Zajarias, A., Mallugari, et al

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- **Air Pollution, Built Environment, and Early Cardiovascular Disease.** *Circulation research*
  Zhang, K., Brook, R. D., Li, Y., Rajagopalan, S., Kim, J. B.
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- **Race-Specific Impact of Conventional Surgical Risk Score on 1-Year Mortality After Transcatheter Aortic Valve Replacement.** *JACC. Asia*
  Kim, H., Kang, D. Y., Ahn, J. M., Kim, J. B., Yeung, A. C., Nishi, T., Fearon, W. F., Cantey, E. P., Flaherty, J. D., Davidson, C. J., Malaisrie, S. C., Kim, N., Kim, et al
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- **Reduced Pulmonary Artery Distensibility Predicts Persistent Pulmonary Hypertension and 2-Year Mortality in Patients with Severe Aortic Stenosis Undergoing TAVR.** *Academic radiology*
  Turner, V., Maret, E., Kim, J. B., Codari, M., Hinostroza, V., Mastrodicasa, D., Watkins, A. C., Fearon, W. F., Fischbein, M. P., Haddad, F., Willemink, M. J., Fleischmann, D.
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- **Correction: Immune biomarkers link air pollution exposure to blood pressure in adolescents.** *Environmental health : a global access science source*
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  2022; 21 (1): 117

- **Modulation of mouse laryngeal inflammatory and immune cell responses by low and high doses of mainstream cigarette smoke.** *Scientific reports*
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- **Global Longitudinal Strain and Biomarkers of Cardiac Damage and Stress as Predictors of Outcomes After Transcatheter Aortic Valve Implantation.** *Journal of the American Heart Association*
  Perry, A. S., Stein, E. J., Biersmith, M., Fearon, W. F., Elmariah, S., Kim, J. B., Clark, D. E., Patel, J. N., Gonzales, H., Baker, M., Piana, R. N., Mallugari, R. R., Kapadia, et al
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- **Differential Prognostic Impact of Conventional Surgical Risk Score on One-Year Mortality After Transcatheter Aortic Valve Replacement Among Asian and Non- Asian Populations: Insights From the Multinational Multicenter TP-TAVR Registry**
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- **Smad3 regulates smooth muscle cell fate and mediates adverse remodeling and calcification of the atherosclerotic plaque.** *Nature cardiovascular research*
  Cheng, P., Wirka, R. C., Kim, J. B., Kim, H. J., Nguyen, T., Kundu, R., Zhao, Q., Sharma, D., Pedroza, A., Nagao, M., Iyer, D., Fischbein, M. P., Quertermous, et al
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- **Left Ventricular Hypertrophy and Biomarkers of Cardiac Damage and Stress in Aortic Stenosis.** *Journal of the American Heart Association*
  Stein, E. J., Fearon, W. F., Elmariah, S., Kim, J. B., Kapadia, S., Kumbhani, D. J., Gillam, L., Whisenant, B., Quader, N., Zajarias, A., Welt, F. G., Bavry, A. A., Coylewright, et al
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  Kang, D., Ahn, J., Kim, J. B., Yeung, A., Nishi, T., Fearon, W., Cantey, E. P., Flaherty, J. D., Davidson, C. J., Malaisrie, S. C., Park, S. Y., Yun, S., Ko, et al
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- **CTA pulmonary artery enlargement in patients with severe aortic stenosis: Prognostic impact after TAVR.** *Journal of cardiovascular computed tomography*
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- **Molecular mechanisms of coronary disease revealed using quantitative trait loci for TCF21 binding, chromatin accessibility, and chromosomal looping.** *Genome biology*
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