Stanford

Paul Cheng MD PhD

Assistant Professor of Medicine (Cardiovascular Medicine)

Medicine - Cardiovascular Medicine

CLINICAL OFFICE (PRIMARY)

- **Medicine**

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  Stanford, CA 94305

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Bio

BIO

Dr. Cheng is a Cardiologist at Stanford University School of Medicine in the Department of Medicine and a member of the Cardiovascular Research Institute. Dr. Cheng received his BEng in Chemical Engineering and BSc in biology at MIT. He subsequently completed his MD/PhD at UCSF working in the Srivastava lab studying how extracellular morphogenic signals affect cardiac development and fate determination of cardiac progenitors. Dr. Cheng completed internal medicine residency and cardiology fellowship at Stanford, including a post-doctoral training in the Quertermous lab. His current clinical focus is in amyloidosis and cardio-oncology.

Dr. Cheng pioneered the application of single cell transcriptomic and epigenetic techniques to study human vascular diseases including atherosclerosis and aneurysm, and applied these techniques to investigate molecular mechanisms behind genetic risk factors for several human vascular diseases including atherosclerosis, and aortopathies such as Marfan's and Loey-Dietz syndrome. The Cheng lab takes a patient-to-bench-to-bedside approach to science. The lab focuses on elucidating new pathogenic mechanisms of human vascular diseases through combing human genetics and primary vascular disease tissues, with high-resolution transcriptomic and epigenetic profiling to generate novel hypothesis that are then tested in a variety of in vitro and in vivo models. The lab is focused on two broad questions: (1) understanding the biological underpinning of the differences in diseases propensities of different arterial segments in an individual (i.e. why do you have atherosclerosis and aneurysms in certain segments but not others), and (2) understanding the role of perivascular fibroblast in human vascular diseases.

Find out more about what the Cheng lab is up to, check out https://chenglab.stanford.edu

CLINICAL FOCUS

- Amyloidosis
- Cardio-Oncology
- Cardiovascular Disease

ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Medicine - Cardiovascular Medicine

- Member, Bio-X
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Co-Director, Stanford TIP, (2024- present)

HONORS AND AWARDS

- R01HL181441 - PI, NIH/NHLBI (08/01/2025-07/31/2029)
- R01HL179083 - PI, NIH//NHLBI (04/01/2025-03/31/2030)
- AHA Early Independence Award, American Heart Association (7/2024-6/2027)
- Louis N. and Arnold M. Katz Basic Research Prize, American Heart Association (11/2021)
- K08 NIH Career Development Award, NIH/NHLBI (8/2020-7/2025)
- AHA Career Development Award, American Heart Association (1/2021-1/2024)
- Gerald Reaven Award for Basic Science, Stanford University Dept of Internal Medicine (2019)
- Ruth L. Kirschtein NRSA NIH Postdoctoral Fellowship (F32), NIH / NHLBI (2018-2020)
- Timothy F. Beckett, Jr. Award for Excellence in Teaching by a Medicine Fellow, Stanford Univ. Dept. of Internal Medicine (2017)

PROFESSIONAL EDUCATION

- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2020)
- Board Certification, American Board of Internal Medicine - Cardiovascular Medicine , Cardiovascular Medicine/Cardiology (2021)
- Fellowship: Stanford University Cardiovascular Medicine Fellowship (2020) CA
- Board Certification: Internal Medicine, American Board of Internal Medicine (2017)
- Residency: Stanford University Internal Medicine Residency (2016) CA
- Medical Education: University of California at San Francisco School of Medicine (2014) CA
- Fellow, Cardiology (2020)
- Resident, Stanford Internal Medicine (2016)
- MD, PhD, University of California, San Francisco (2014)

LINKS

- Cheng Lab Website: https://chenglab.stanford.edu

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Shreya Gupta, Hirotaka IEKI, Sophia Mahoney, Andrew Nguyen

Postdoctoral Research Mentor

Tao Qiu

Publications

PUBLICATIONS

- **Single Cell and Spatial Transcriptomics Identify Novel Immune-Stromal Interactions in Cardiac Allograft Vasculopathy.** *Research square*

Owen, M. C., Li, D. Y., Shin, H., Gu, W., Parvathaneni, A., Kadyrov, F. F., Wang, X., Sticco-Ivins, M., Bonnici, G., Nelson, S. L., Dun, H., Hyacinth, S., Cain, et al

2025

- **A cell and transcriptome atlas of human arterial vasculature.** *Cell genomics*

  Zhao, Q., Pedroza, A., Sharma, D., Gu, W., Dalal, A., Weldy, C., Jackson, W., Li, D. Y., Ryan, Y., Nguyen, T., Shad, R., Palmisano, B. T., Monteiro, et al

  2025: 101034

- **Chemokine (C-C Motif) Ligand 2 Expressing Adventitial Fibroblast Expansion During Loeys-Dietz Syndrome Aortic Aneurysm Formation.** *Arteriosclerosis, thrombosis, and vascular biology*

  Dalal, A. R., Pedroza, A. J., Kim, J., Gilles, C., Gu, W., Kusadokoro, S., Shad, R., Mitchel, O., Jackson, W., Hiesinger, W., Berry, G., Gallo MacFarlane, E., Quertermous, et al

  2025

- **Genome-Wide Genetic Associations Prioritize Evaluation of Causal Mechanisms of Atherosclerotic Disease Risk.** *Arteriosclerosis, thrombosis, and vascular biology*

  Quertermous, T., Li, D. Y., Weldy, C. S., Ramste, M., Sharma, D., Monteiro, J. P., Gu, W., Worssam, M. D., Palmisano, B. T., Park, C. Y., Cheng, P.

  2024; 44 (2): 323-327

- **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

  2022; 1 (4): 322-333

- **High-Throughput Precision Phenotyping of Left Ventricular Hypertrophy With Cardiovascular Deep Learning.** *JAMA cardiology*

  Duffy, G., Cheng, P. P., Yuan, N., He, B., Kwan, A. C., Shun-Shin, M. J., Alexander, K. M., Ebinger, J., Lungren, M. P., Rader, F., Liang, D. H., Schnittger, I., Ashley, et al

  2022

- **ZEB2 Shapes the Epigenetic Landscape of Atherosclerosis** *Circulation*

  Cheng, P., Wirka, R. C., Clarke, L., Zhao, Q., Kundu, R., Nguyen, T., Nair, S., Sharma, D., Kim, H., Shi, H., Assimes, T., Kim, J., Kundaje, et al

  2022; 145 (6): 469–485

- **Vascular smooth muscle cell state trajectories mediate molecular mechanisms of coronary disease risk.** *Nature communications*

  Li, D. Y., Kundu, S., Cheng, P., Gu, W., Worssam, M. D., Jackson, W. R., Zhao, Q., Nguyen, T., Yu, A. M., Monteiro, J. P., Caceres, R. D., Dale, S., Palmisano, et al

  2026

- **Deep Learning-Enabled Screening of Chronic Kidney Disease from Echocardiography.** *medRxiv : the preprint server for health sciences*

  Yuan, V., Ieki, H., Sandhu, A., Nguyen, L. H., Cheng, P. P., Chang, S. T., Ambrosy, A. P., Kwan, A. C., Go, A. S., Cheng, S., Ouyang, D.

  2026

- **Targeting modulated vascular smooth muscle cells in atherosclerosis via FAP-directed immunotherapy.** *Science (New York, N.Y.)*

  Amrute, J. M., Jung, I. H., Yamawaki, T., Lin, W. L., Bredemeyer, A., Diekmann, J., Hayat, S., Zhang, X., Wakefield, D. L., Luo, X., Maryam, S., Heo, G. S., Yang, et al

  2026: eadx1736

- **Workplace Pollution and Risk of Incident Coronary Artery Disease.** *medRxiv : the preprint server for health sciences*

  Gao, H., Jarr, K. U., Kojima, Y., Xiong, T., Kim, J. B., Cheng, P., Trasande, L., Peters, A., Pasterkamp, G., Giannarelli, C., Leeper, N. J.

  2026

- **Evaluating The Timeliness And Equity Of ATTR-CM Diagnosis In The Medicare Population**

  Spencer-bonilla, G., Fan, J., Varshney, A. S., Cheng, P., Din, N., Rodriguez, F., Davies, M., Papas, M., Venditto, J., Huang, J., Witteles, R., Heidenreich, P., Sandhu, et al

  CHURCHILL LIVINGSTONE INC MEDICAL PUBLISHERS.2026

- **Delayed Diagnosis of Transthyretin Amyloid Cardiomyopathy in the Veterans Health Administration.** *Journal of the American College of Cardiology*

  Spencer-Bonilla, G., Fan, J., Cheng, P., Varshney, A., Din, N., Rodriguez, F., Papas, M. A., Davies, M., Venditto, J., Huang, J., Witteles, R. M., Heidenreich, P. A., Alexander, et al

2025

- **Multiscale profiling of tyrosine kinase inhibitor cardiotoxicity reveals mechanosensitive ion channel PIEZO1 as cardioprotective.** *Science translational medicine*
  Manhas, A., Liu, Y., Noishiki, C., Wu, D., Tripathi, D., Mirza, S., Thomas, D., Liu, L., Guha, A., Nguyen, P. K., Chen, I. Y., Chitalia, V., Cheng, et al
  2025; 17 (829): eadv9403
- **Osimertinib induces reversible cardiac dysfunction through the GATA4-MYLK3-MYL2 axis.** *European heart journal*
  Zhang, K., Ayala, A., Norambuena-Soto, I., Agnihotri, V., Shu, T., Nenninger, C., Wang, Y., Echevarria, B., Aboagye, J., Huang, K., Espitia-Corredor, J., Wu, X., Chen, et al
  2025
- **Machine Learning in Cardio-Oncology: Innovation or Overhype?** *CURRENT TREATMENT OPTIONS IN CARDIOVASCULAR MEDICINE*
  Binder, C., Siegel, R. J., Cheng, P., Thadani, S., Ambrosy, A., Ouyang, D.
  2025; 27 (1)
- **Artificial intelligence prediction of age from echocardiography as a marker for cardiovascular disease.** *NPJ digital medicine*
  Rawlani, M., Ieki, H., Binder, C., Yuan, V., Chiu, I. M., Bhatt, A., Ebinger, J. E., Sahashi, Y., Ambrosy, A. P., Usuku, H., Tsujita, K., Cheng, P., Kwan, et al
  2025; 8 (1): 688
- **Comprehensive echocardiogram evaluation with view primed vision language AI.** *Nature*
  Vukadinovic, M., Chiu, I. M., Tang, X., Yuan, N., Chen, T. Y., Cheng, P., Li, D., Cheng, S., He, B., Ouyang, D.
  2025
- **ZEB1 Regulates Coronary Disease Risk Through Epigenetic Control of Smooth Muscle Cell Identity**
  Li, D., Jackson, W., Gu, W., Yu, A., Zhu, S., Zhao, Q., Nguyen, T., Cheng, P., Quertermous, T.
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **Mapping the Gene Network Dysregulation in Ascending Aortic Aneurysm Reveals Candidate Therapeutic Targets**
  Kurtoglu, S., Venkatesh, M., Bolar, N., Cheng, P., Fischbein, M., Theodoris, C.
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **Chronic Electronic Cigarette Exposure Promotes Atherosclerosis and Chondrogenic Modulation of Smooth Muscle Cells**
  Damiani, I., Weldy, C., Zhao, Q., Hurtado Solberg, E., Qin, G., Easwaran, M., Basu, S., Gu, W., Worssam, M., Monteiro, J., Zheng, S., Kaur Bahia, G., Kundu, et al
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **Association of Delayed Diagnosis of Transthyretin Cardiomyopathy with Heart Failure Hospitalizations and Mortality**
  Spencer-Bonilla, G., Fan, J., Cheng, P., Din, N., Rodriguez, F., Varshney, A., Davies, M., Venditto, J., Papas, M., Huang, J., Witteles, R., Heidenreich, P., Sandhu, et al
  LIPPINCOTT WILLIAMS & WILKINS.2025: A4349790
- **Multi-View Deep Learning for Automated Quantification of Mitral Stenosis**
  Ieki, H., Vukadinovic, M., Sahashi, Y., He, B., Cheng, P., Ouyang, D.
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **Multi-View Deep Learning for Automated Quantification of Aortic Stenosis**
  Ieki, H., Vukadinovic, M., Sahashi, Y., He, B., Cheng, P., Ouyang, D.
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **Artificial Intelligence to Automate Guideline-Based Evaluation of Left Ventricular Diastolic Function**
  Yuan, V., Sahashi, Y., Ieki, H., Vukadinovic, M., Binder, C., Pieszko, K., Cheng, P., Cheng, S., Ouyang, D.
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **The epigenomic landscape of single vascular cells reflects developmental origin and identifies disease risk loci**
  Weldy, C., Kundu, S., Monteiro, J., Gu, W., Pedroza, A., Dalal, A., Worssam, M., Li, D., Palmisano, B., Zhao, Q., Sharma, D., Nguyen, T., Kundu, et al
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **Abstract 4370456: Multiparameter Assessment of TNNI3 Cardiomyopathy Variants for Precision Medicine**

Staudt, D., Tran, P., Floyd, B., Han, D., Jackson, W., Carhuamaca, X., Serrano, R., Hnatiuk, A., Cheng, P., Parikh, V., Ashley, E., Mercola, M.
LIPPINCOTT WILLIAMS & WILKINS.2025: A4370456

- **Vascular smooth muscle cell atherosclerosis trajectories characterized at single cell resolution identify causal transcriptomic and epigenomic mechanisms of disease risk**
  Li, D., Kundu, S., Cheng, P., Gu, W., Jackson, W., Zhao, Q., Nguyen, T., Worssam, M., Monteiro, J., Palmisano, B., Weldy, C., Kundu, R., Kundaje, et al
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **Automated evaluation for pericardial effusion and cardiac tamponade with echocardiographic artificial intelligence.** *European heart journal. Digital health*
  Chiu, I. M., Sahashi, Y., Vukadinovic, M., Cheng, P. P., Cheng, S., Ouyang, D.
  2025; 6 (6): 1216-1222
- **Automated evaluation for pericardial effusion and cardiac tamponade with echocardiographic artificial intelligence** *EUROPEAN HEART JOURNAL - DIGITAL HEALTH*
  Chiu, I., Sahashi, Y., Vukadinovic, M., Cheng, P. P., Cheng, S., Ouyang, D.
  2025
- **Comprehensive aortic stenosis characterization using multi-view deep learning.** *medRxiv : the preprint server for health sciences*
  Ieki, H., Sahashi, Y., Vukadinovic, M., Rawlani, M., Binder, C., Yuan, N., Ambrosy, A. P., Go, A. S., Chen, W., Lee, M. S., He, B., Cheng, P., Ouyang, et al
  2025
- **Smooth muscle expression of RNA editing enzyme ADAR1 controls activation of the RNA sensor MDA5 in atherosclerosis.** *Nature cardiovascular research*
  Weldy, C. S., Li, Q., Monteiro, J. P., Peters, T. S., Guo, H., Galls, D., Gu, W., Cheng, P. P., Ramste, M., Li, D., Palmisano, B. T., Sharma, D., Worssam, et al
  2025
- **Epigenomic landscape of single vascular cells reflects developmental origin and disease risk loci.** *Molecular systems biology*
  Weldy, C. S., Kundu, S., Monteiro, J., Gu, W., Pedroza, A. J., Dalal, A. R., Worssam, M. D., Li, D., Palmisano, B., Zhao, Q., Sharma, D., Nguyen, T., Kundu, et al
  2025
- **International Validation of Echocardiographic Artificial Intelligence Amyloid Detection Algorithm.** *JACC. Advances*
  Duffy, G., Oikonomou, E. K., Easton, N., Usuku, H., Patel, J., Katsumata, Y., Yamasawa, D., Stern, L., Goto, S., Tsujita, K., Cheng, P., Khera, R., Ahmad, et al
  2025: 102067
- **Artificial Intelligence Automation of Echocardiographic Measurements.** *Journal of the American College of Cardiology*
  Sahashi, Y., Ieki, H., Yuan, V., Christensen, M., Vukadinovic, M., Binder-Rodriguez, C., Rhee, J., Zou, J. Y., He, B., Cheng, P., Ouyang, D.
  2025
- **Cardiac Troponin Screening and Clinical Outcomes in Patients Receiving Immunotherapy.** *JACC. CardioOncology*
  Cheng, E., Ivanovic, M., Chan, A., Xu, S., Franquiz, M., Lee, C., You, J., Fazal, M., Le Guen, Y., Batchelder, R., Reddy, S. A., Katsumoto, T., Ramchandran, et al
  2025
- **The epigenomic landscape of single vascular cells reflects developmental origin and identifies disease risk loci.** *bioRxiv : the preprint server for biology*
  Weldy, C. S., Kundu, S., Monteiro, J., Gu, W., Pedroza, A. J., Dalal, A. R., Worssam, M. D., Li, D., Palmisano, B., Zhao, Q., Sharma, D., Nguyen, T., Kundu, et al
  2025
- **Automated Deep Learning Pipeline for Characterizing Left Ventricular Diastolic Function.** *medRxiv : the preprint server for health sciences*
  Yuan, V., Sahashi, Y., Ieki, H., Vukadinovic, M., Binder, C., Pieszko, K., Ambrosy, A. P., Cheng, P. P., Cheng, S., Ouyang, D.
  2025
- **Preclinical evaluation of high-resolution CT, 18F-FDG, and 18F-NaF PET imaging for longitudinal monitoring of atherosclerosis.** *European journal of nuclear medicine and molecular imaging*

Tamboline, M., Collins, J., Jackson, W., Gu, W., Worssam, M., Cheng, P., David, J., Taschereau, R., Chatziioannou, A. F., Jackson, S., Xu, S., Ikotun, O. F.
2025

- **Artificial Intelligence Prediction of Age from Echocardiography as a Marker for Cardiovascular Disease.** *medRxiv : the preprint server for health sciences*
Rawlani, M., Ieki, H., Binder, C., Yuan, V., Chiu, I. M., Bhatt, A., Ebinger, J. E., Sahashi, Y., Ambrosy, A. P., Cheng, P., Kwan, A. C., Cheng, S., Ouyang, et al
2025

- **Artificial intelligence automation of echocardiographic measurements.** *medRxiv : the preprint server for health sciences*
Sahashi, Y., Ieki, H., Yuan, V., Christensen, M., Vukadinovic, M., Binder-Rodriguez, C., Rhee, J., Zou, J. Y., He, B., Cheng, P., Ouyang, D.
2025

- **Environmental pollutants and atherosclerosis: Epigenetic mechanisms linking genetic risk and disease.** *Atherosclerosis*
Damiani, I., Solberg, E. H., Iyer, M., Cheng, P., Weldy, C. S., Kim, J. B.
2025: 119131

- **Single-Cell Transcriptomics Identifies Selective Lineage-Specific Regulation of Genes in Aortic Smooth Muscle Cells in Mice.** *Arteriosclerosis, thrombosis, and vascular biology*
Shukla, S., Jana, S., Sanford, N., Lee, C. Y., Liu, L., Cheng, P., Quertermous, T., Dichek, D. A.
2025

- **Spatial transcriptomic mapping of coronary atherosclerosis in the luminal plaque and beyond.** *Nature cardiovascular research*
Cheng, P., Quertermous, T.
2025

- **Temporal dynamics of gene and protein signatures following volumetric muscle loss.** *Frontiers in cell and developmental biology*
Jain, I., Oropeza, B. P., Hu, C., Chiang, G., Aravindan, S., Reyes, R., Li, D. Y., Cheng, P., Huang, N. F.
2025; 13: 1606609

- **Clinical Relevance and Mechanistic Underpinnings of Tyrosine Kinase Inhibitor Associated Cardiotoxicities** *CURRENT TREATMENT OPTIONS IN CARDIOVASCULAR MEDICINE*
Torelli, S., Agnihotri, V., Zhu, H., Wang, Z., Cheng, P., Rhee, J.
2024; 27 (1)

- **Automated Evaluation for Pericardial Effusion and Cardiac Tamponade with Echocardiographic Artificial Intelligence.** *medRxiv : the preprint server for health sciences*
Chiu, I. M., Vukadinovic, M., Sahashi, Y., Cheng, P. P., Cheng, C. Y., Cheng, S., Ouyang, D.
2024

- **Single cell variant to enhancer to gene map for coronary artery disease.** *medRxiv : the preprint server for health sciences*
Amrute, J. M., Lee, P. C., Eres, I., Lee, C. J., Bredemeyer, A., Sheth, M. U., Yamawaki, T., Gurung, R., Anene-Nzelu, C., Qiu, W. L., Kundu, S., Li, D. Y., Ramste, et al
2024

- **A cell and transcriptome atlas of the human arterial vasculature.** *bioRxiv : the preprint server for biology*
Zhao, Q., Pedroza, A., Sharma, D., Gu, W., Dalal, A., Weldy, C., Jackson, W., Li, D. Y., Ryan, Y., Nguyen, T., Shad, R., Palmisano, B. T., Monteiro, et al
2024

- **Impact of Case and Control Selection on Training Artificial Intelligence Screening of Cardiac Amyloidosis.** *JACC. Advances*
Vrudhula, A., Stern, L., Cheng, P. C., Ricchiuto, P., Daluwatte, C., Witteles, R., Patel, J., Ouyang, D.
2024; 3 (9): 100998

- **Vutrisiran in Patients with Transthyretin Amyloidosis with Cardiomyopathy.** *The New England journal of medicine*
Fontana, M., Berk, J. L., Gillmore, J. D., Witteles, R. M., Grogan, M., Drachman, B., Damy, T., Garcia-Pavia, P., Taubel, J., Solomon, S. D., Sheikh, F. H., Tahara, N., González-Costello, et al
2024

- **Genetic and functional analysis of Raynaud's syndrome implicates loci in vasculature and immunity.** *Cell genomics*

Tervi, A., Ramste, M., Abner, E., Cheng, P., Lane, J. M., Maher, M., Valliere, J., Lammi, V., Strausz, S., Riikonen, J., Nguyen, T., Martyn, G. E., Sheth, et al

2024: 100630

- **Comprehensive Integration of Multiple Single-Cell Transcriptomic Datasets Defines Distinct Cell Populations and Their Phenotypic Changes in Murine Atherosclerosis.** *Arteriosclerosis, thrombosis, and vascular biology*

  Sharma, D., DeForest Worssam, M., Pedroza, A. J., Dalal, A. R., Alemany, H., Kim, H. J., Kundu, R., Fischbein, M., Cheng, P., Wirka, R., Quertermous, T.

  2023

- **Immunotherapy-Associated Atherosclerosis: A Comprehensive Review of Recent Findings and Implications for Future Research.** *Current treatment options in cardiovascular medicine*

  Chan, A., Torelli, S., Cheng, E., Batchelder, R., Waliany, S., Neal, J., Witteles, R., Nguyen, P., Cheng, P., Zhu, H.

  2023; 25 (12): 715-735

- **Osimertinib-Associated Cardiomyopathy In Patients With Non-Small Cell Lung Cancer: A Case Series** *JACC: CardioOncology*

  Franquiz, M., Waliany, S., Xu, A., Hnatiuk, A., Wu, S., Cheng, P., Wakelee, H., Neal, J., Witteles, R., Zhu, H.

  2023: 839-841

- **Early clinical outcomes and molecular smooth muscle cell phenotyping using a prophylactic aortic arch replacement strategy in Loeys-Dietz syndrome.** *The Journal of thoracic and cardiovascular surgery*

  Pedroza, A. J., Cheng, P., Dalal, A. R., Baeumler, K., Kino, A., Tognozzi, E., Shad, R., Yokoyama, N., Nakamura, K., Mitchel, O., Hiesinger, W., MacFarlane, E. G., Fleischmann, et al

  2023

- **Comparative arrhythmia patterns among patients on tyrosine kinase inhibitors.** *Journal of interventional cardiac electrophysiology : an international journal of arrhythmias and pacing*

  Wei, C., Fazal, M., Loh, A., Kapoor, R., Gomez, S. E., Shah, S., Rogers, A. J., Narayan, S. M., Wang, P. J., Witteles, R. M., Perino, A. C., Cheng, P., Rhee, et al

  2023

- **Discovery of Transacting Long Noncoding RNAs That Regulate Smooth Muscle Cell Phenotype.** *Circulation research*

  Shi, H., Nguyen, T., Zhao, Q., Cheng, P., Sharma, D., Kim, H. J., Brian Kim, J., Wirka, R., Weldy, C. S., Monteiro, J. P., Quertermous, T.

  2023

- **Molecular mechanisms of coronary artery disease risk at the PDGFD locus.** *Nature communications*

  Kim, H., Cheng, P., Travisano, S., Weldy, C., Monteiro, J. P., Kundu, R., Nguyen, T., Sharma, D., Shi, H., Lin, Y., Liu, B., Haldar, S., Jackson, et al

  2023; 14 (1): 847

- **Immunotherapy-Associated Atherosclerosis: A Comprehensive Review of Recent Findings and Implications for Future Research** *Current Treatment Options in Cardiovascular Medicine*

  Chan, A., Torelli, S., Cheng, E., Batchelder, R., Waliany, S., Neal, J., Witteles, R., Nguyen, P., Cheng, P., Zhu, H.

  2023

- **Tyrosine kinase inhibitor-associated ventricular arrhythmias: a case series and review of literature.** *Journal of interventional cardiac electrophysiology : an international journal of arrhythmias and pacing*

  Fazal, M., Wei, C., Chuy, K. L., Hussain, K., Gomez, S. E., Ba, S. S., Pietrasik, G., Yadav, N., Ghazizadeh, Z., Kapoor, R., Witteles, R. M., Blackmon, A., Wang, et al

  2022

- **von Willebrand Factor Is Produced Exclusively by Endothelium, Not Neointima, in Occlusive Vascular Lesions in Both Pulmonary Hypertension and Atherosclerosis.** *Circulation*

  Steffes, L. C., Cheng, P., Quertermous, T., Kumar, M. E.

  2022; 146 (5): 429-431

- **Embryologic Origin Influences Smooth Muscle Cell Phenotypic Modulation Signatures in Murine Marfan Syndrome Aortic Aneurysm.** *Arteriosclerosis, thrombosis, and vascular biology*

  Pedroza, A. J., Dalal, A. R., Shad, R., Yokoyama, N., Nakamura, K., Cheng, P., Wirka, R. C., Mitchel, O., Baiocchi, M., Hiesinger, W., Quertermous, T., Fischbein, M. P.

  2022: 101161ATVBAHA122317381

- **Human Coronary Plaque T Cells Are Clonal and Cross-React to Virus and Self.** *Circulation research*

Roy Chowdhury, R., D'Addabbo, J., Huang, X., Veizades, S., Sasagawa, K., Louis, D. M., Cheng, P., Sokol, J., Jensen, A., Tso, A., Shankar, V., Wendel, B. S., Bakerman, et al

2022: 101161CIRCRESAHA121320090

- **Effective Sphygmomanometer Based Non-invasive Central Venous Pressure Measurement In Hospitalized Heart Failure Patients**

  Kawana, M., Cheng, P., Morimoto, H., Fowler, M.

  CHURCHILL LIVINGSTONE INC MEDICAL PUBLISHERS.2022: S18

- **ZEB2 Shapes the Epigenetic Landscape of Atherosclerosis.** *Circulation*

  Cheng, P., Wirka, R. C., Clarke, L. S., Zhao, Q., Kundu, R., Nguyen, T., Nair, S., Sharma, D., Kim, H. J., Shi, H., Assimes, T., Kim, J. B., Kundaje, et al

  2022

- **Artificial intelligence applications in cardio-oncology: Leveraging high dimensional cardiovascular data.** *Frontiers in cardiovascular medicine*

  Chen, H., Ouyang, D., Baykaner, T., Jamal, F., Cheng, P., Rhee, J.

  2022; 9: 941148

- **Ibrutinib-associated atrial fibrillation treatment with catheter ablation.** *HeartRhythm case reports*

  Kapoor, R., Fazal, M., Cheng, P., Witteles, R., Rhee, J., Baykaner, T.

  2021; 7 (11): 713-716

- **Arrhythmias Other Than Atrial Fibrillation in Those With an Irregular Pulse Detected With a Smartwatch: Findings From the Apple Heart Study.** *Circulation. Arrhythmia and electrophysiology*

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