Stanford



Derek M. Klarin, MD

NIH Biosketch available Online

Bio

BIO

Dr. Klarin is a fellowship-trained vascular surgeon.

For each patient, he develops a comprehensive, compassionate care plan customized to individual needs. His goal is to help each patient achieve the best possible health and quality of life.

Dr. Klarin performs the full spectrum of diagnostic and treatment procedures for cardiovascular conditions. He treats carotid disease, peripheral artery disease, abdominal aortic aneurysm, venous thromboembolism, and other vascular diseases.

To help advance his field, Dr. Klarin has conducted research. The American Heart Association, Howard Hughes Medical Institute, and other organizations have provided grants to support his studies. He also has co-patented advances in predicting and scoring risk factors for cardiovascular disease and other conditions.

He has published extensively and co-authored more than 50 articles on new techniques and technology for diagnosing and treating cardiovascular disorders. His work has appeared in the Journal of Vascular Surgery, Circulation, JAMA, Nature Medicine, and other peer-reviewed journals.

He also has made many invited presentations to his peers. He has spoken at the Vascular Research Initiatives Conference presented by the Society for Vascular Surgery, the American Heart Association Scientific Sessions, and the annual meeting of the American Society for Human Genetics. Topics include risk factors for peripheral artery disease, the benefits of ultrasound screening for abdominal aortic aneurysm, and the impact of genetic variations on cardiovascular disease.

He is a member of the Global Lipids Genetics Consortium. He is a founding member of the Abdominal Aortic Aneurysm Genetics Consortium and the Peripheral Artery Disease Genetics Consortium. He is also a candidate member of the Society for Vascular Surgery.

ACADEMIC APPOINTMENTS

- Member, Cardiovascular Institute

PROFESSIONAL EDUCATION

- Fellowship, University of Florida College of Medicine, Gainesville , Vascular Surgery and Endovascular Therapy
- Fellowship, Broad Institute of Harvard & MIT, Cambridge, Massachusetts , Research Fellow

- Residency, Massachusetts General Hospital , Surgery
- Medical Degree, David Geffen School of Medicine, University of California, Los Angeles

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Vascular Surgery (Fellowship Program)

Publications

PUBLICATIONS

- **Genome-wide association study of thoracic aortic aneurysm and dissection in the Million Veteran Program.** *Nature genetics*
  Klarin, D., Devineni, P., Sendamarai, A. K., Angueira, A. R., Graham, S. E., Shen, Y. H., Levin, M. G., Pirruccello, J. P., Surakka, I., Karnam, P. R., Roychowdhury, T., Li, Y., Wang, et al
  2023
- **Circulating proteins and peripheral artery disease risk: observational and Mendelian randomization analyses.** *European heart journal open*
  Yuan, S., Titova, O. E., Zhang, K., Chen, J., Li, X., Klarin, D., Åkesson, A., Damrauer, S. M., Larsson, S. C.
  2023; 3 (3): oead056
- **TP53-mediated clonal hematopoiesis confers increased risk for incident atherosclerotic disease.** *Nature cardiovascular research*
  Zekavat, S. M., Viana-Huete, V., Matesanz, N., Jorshery, S. D., Zuriaga, M. A., Uddin, M. M., Trinder, M., Paruchuri, K., Zorita, V., Ferrer-Pérez, A., Amorós-Pérez, M., Kunderfranco, P., Carriero, et al
  2023; 2: 144-158
- **Cross-Ancestry Investigation of Venous Thromboembolism Genomic Predictors.** *Circulation*
  Thibord, F., Klarin, D., Brody, J. A., Chen, M., Levin, M. G., Chasman, D. I., Goode, E. L., Hveem, K., Teder-Laving, M., Martinez-Perez, A., Aissi, D., Daian-Bacq, D., Ito, et al
  2022: 101161CIRCULATIONAHA122059675
- **Genetic and clinical determinants of abdominal aortic diameter: genome-wide association studies, exome array data and Mendelian randomization study.** *Human molecular genetics*
  Portilla-Fernandez, E., Klarin, D., Hwang, S., Biggs, M. L., Bis, J. C., Weiss, S., Rospleszcz, S., Natarajan, P., Hoffmann, U., Rogers, I. S., Truong, Q. A., Volker, U., Dorr, et al
  2022
- **Clinical utility of polygenic risk scores for coronary artery disease.** *Nature reviews. Cardiology*
  Klarin, D., Natarajan, P.
  2021
- **A GENOME-WIDE ASSOCIATION STUDY OF CHRONIC ALT-BASED NAFLD IN THE MILLION VETERAN PROGRAM WITH HISTOLOGICAL AND RADIOLOGICAL VALIDATION**
  Vujkovic, M., Ramdas, S., Lorenz, K. M., Guo, X., Darlay, R., Cordell, H. J., He, J., Gindin, Y., Chung, C., Myers, R. P., Schneider, C., Park, J., Lee, et al
  WILEY.2021: 6A-7A
- **A Missense Variant in the IL-6 Receptor and Protection from Peripheral Artery Disease.** *Circulation research*
  Levin, M. G., Klarin, D., Georgakis, M. K., Lynch, J., Liao, K. P., Voight, B. F., O'Donnell, C. J., Chang, K., Assimes, T. L., Tsao, P. S., Damrauer, S. M.
  2021
- **Endothelial lipase mediates efficient lipolysis of triglyceride-rich lipoproteins.** *PLoS genetics*
  Khetarpal, S. A., Vitali, C., Levin, M. G., Klarin, D., Park, J., Pampana, A., Millar, J. S., Kuwano, T., Sugasini, D., Subbaiah, P. V., Billheimer, J. T., Natarajan, P., Rader, et al
  2021; 17 (9): e1009802
- **Regulatory variants in TCF7L2 are associated with thoracic aortic aneurysm.** *American journal of human genetics*
  Roychowdhury, T., Lu, H., Hornsby, W. E., Crone, B., Wang, G. T., Guo, D., Sendamarai, A. K., Devineni, P., Lin, M., Zhou, W., Graham, S. E., Wolford, B. N., Surakka, et al

2021

- **Prioritizing the Role of Major Lipoproteins and Subfractions as Risk Factors for Peripheral Artery Disease.** *Circulation*
  Levin, M. G., Zuber, V., Walker, V. M., Klarin, D., Lynch, J., Malik, R., Aday, A. W., Bottolo, L., Pradhan, A. D., Dichgans, M., Chang, K., Rader, D. J., Tsao, et al
  2021

- **Genetic Determinants of Peripheral Artery Disease.** *Circulation research*
  Klarin, D., Tsao, P. S., Damrauer, S. M.
  2021; 128 (12): 1805-1817

- **Epidemiology and Genetics of Venous Thromboembolism and Chronic Venous Disease.** *Circulation research*
  Baylis, R. A., Smith, N. L., Klarin, D., Fukaya, E.
  2021; 128 (12): 1988-2002

- **Risk factors mediating the effect of body mass index and waist-to-hip ratio on cardiovascular outcomes: Mendelian randomization analysis.** *International journal of obesity (2005)*
  Gill, D., Zuber, V., Dawson, J., Pearson-Stuttard, J., Carter, A. R., Sanderson, E., Karhunen, V., Levin, M. G., Wootton, R. E., Klarin, D., Tsao, P. S., Tsilidis, K. K., Damrauer, et al
  2021

- **Association Between Genetic Variation in Blood Pressure and Increased Lifetime Risk of Peripheral Artery Disease.** *Arteriosclerosis, thrombosis, and vascular biology*
  Levin, M. G., Klarin, D., Walker, V. M., Gill, D., Lynch, J., Hellwege, J. N., Keaton, J. M., Lee, K. M., Assimes, T. L., Natarajan, P., Hung, A. M., Edwards, T., Rader, et al
  2021: ATVBAHA120315482

- **Multi-trait association studies discover pleiotropic loci between Alzheimer's disease and cardiometabolic traits.** *Alzheimer's research & therapy*
  Bone, W. P., Siewert, K. M., Jha, A., Klarin, D., Damrauer, S. M., VA Million Veteran Program, Chang, K., Tsao, P. S., Assimes, T. L., Ritchie, M. D., Voight, B. F., Ballas, Z. K., Bhushan, S., et al
  2021; 13 (1): 34

- **Genetics of Smoking and Risk of Atherosclerotic Cardiovascular Diseases: A Mendelian Randomization Study.** *JAMA network open*
  Levin, M. G., Klarin, D., Assimes, T. L., Freiberg, M. S., Ingelsson, E., Lynch, J., Natarajan, P., O'Donnell, C., Rader, D. J., Tsao, P. S., Chang, K., Voight, B. F., Damrauer, et al
  2021; 4 (1): e2034461

- **Urate, Blood Pressure, and Cardiovascular Disease: Evidence From Mendelian Randomization and Meta-Analysis of Clinical Trials.** *Hypertension (Dallas, Tex. : 1979)*
  Gill, D., Cameron, A. C., Burgess, S., Li, X., Doherty, D. J., Karhunen, V., Abdul-Rahim, A. H., Taylor-Rowan, M., Zuber, V., Tsao, P. S., Klarin, D., VA Million Veteran Program, Evangelou, E., et al
  2020: HYPERTENSIONAHA12016547

- **Genetic predisposition to smoking in relation to 14 cardiovascular diseases** *EUROPEAN HEART JOURNAL*
  Larsson, S. C., Mason, A. M., Back, M., Klarin, D., Damrauer, S. M., Michaelsson, K., Burgess, S.
  2020; 41 (35): 3304-+

- **Mendelian Randomization Analysis of Hemostatic Factors and Their Contribution to Peripheral Artery Disease.** *Arteriosclerosis, thrombosis, and vascular biology*
  Small, A. M., Huffman, J. E., Klarin, D., Sabater-Lleal, M., Lynch, J. A., Assimes, T. L., Sun, Y. V., Miller, D., Freiberg, M. S., Morrison, A. C., Rader, D. J., Wilson, P. W., Cho, et al
  2020: ATVBAHA119313847

- **Dynamic incorporation of multiple in silico functional annotations empowers rare variant association analysis of large whole-genome sequencing studies at scale.** *Nature genetics*
  Li, X., Li, Z., Zhou, H., Gaynor, S. M., Liu, Y., Chen, H., Sun, R., Dey, R., Arnett, D. K., Aslibekyan, S., Ballantyne, C. M., Bielak, L. F., Blangero, et al
  2020

- **Concomitant carotid endarterectomy and cardiac surgery does not decrease postoperative stroke rates** *JOURNAL OF VASCULAR SURGERY*
  Klarin, D., Patel, V., Zhang, S., Xian, Y., Kosinski, A., Yerokun, B., Badhwar, V., Thourani, V. H., Sundt, T. M., Shahian, D., Melnitchouk, S.

2020; 72 (2): 589-+

- **A missense variant in Mitochondrial Amidoxime Reducing Component 1 gene and protection against liver disease** *PLOS GENETICS*
  Emdin, C. A., Haas, M. E., Khera, A., Aragam, K., Chaffin, M., Klarin, D., Hindy, G., Jiang, L., Wei, W., Feng, Q., Karjalainen, J., Havulinna, A., Kiiskinen, et al
  2020; 16 (4): e1008629

- **Minority-centric meta-analyses of blood lipid levels identify novel loci in the Population Architecture using Genomics and Epidemiology (PAGE) study** *PLOS GENETICS*
  Hu, Y., Graff, M., Haessler, J., Buyske, S., Bien, S. A., Tao, R., Highland, H. M., Nishimura, K. K., Zubair, N., Lu, Y., Verbanck, M., Hilliard, A. T., Klarin, et al
  2020; 16 (3)

- **Minority-centric meta-analyses of blood lipid levels identify novel loci in the Population Architecture using Genomics and Epidemiology (PAGE) study.** *PLoS genetics*
  Hu, Y. n., Graff, M. n., Haessler, J. n., Buyske, S. n., Bien, S. A., Tao, R. n., Highland, H. M., Nishimura, K. K., Zubair, N. n., Lu, Y. n., Verbanck, M. n., Hilliard, A. T., Klarin, et al
  2020; 16 (3): e1008684

- **PCSK9 loss of function is protective against extra-coronary atherosclerotic cardiovascular disease in a large multi-ethnic cohort.** *PloS one*
  Small, A. M., Huffman, J. E., Klarin, D. n., Lynch, J. A., Assimes, T. n., DuVall, S. n., Sun, Y. V., Shere, L. n., Natarajan, P. n., Gaziano, M. n., Rader, D. J., Wilson, P. W., Tsao, et al
  2020; 15 (11): e0239752

- **Genetic Architecture of Abdominal Aortic Aneurysm in the Million Veteran Program.** *Circulation*
  Klarin, D. n., Verma, S. S., Judy, R. n., Dikilitas, O. n., Wolford, B. N., Paranjpe, I. n., Levin, M. G., Pan, C. n., Tcheandjieu, C. n., Spin, J. M., Lynch, J. n., Assimes, T. L., Nyrønning, et al
  2020

- **The relationship between circulating lipids and breast cancer risk: A Mendelian randomization study.** *PLoS medicine*
  Johnson, K. E., Siewert, K. M., Klarin, D. n., Damrauer, S. M., Chang, K. M., Tsao, P. S., Assimes, T. L., Maxwell, K. N., Voight, B. F.
  2020; 17 (9): e1003302

- **Discovery of 318 new risk loci for type 2 diabetes and related vascular outcomes among 1.4 million participants in a multi-ancestry meta-analysis.** *Nature genetics*
  Vujkovic, M. n., Keaton, J. M., Lynch, J. A., Miller, D. R., Zhou, J. n., Tcheandjieu, C. n., Huffman, J. E., Assimes, T. L., Lorenz, K. n., Zhu, X. n., Hilliard, A. T., Judy, R. L., Huang, et al
  2020

- **Cross-trait analyses with migraine reveal widespread pleiotropy and suggest a vascular component to migraine headache.** *International journal of epidemiology*
  Siewert, K. M., Klarin, D. n., Damrauer, S. M., Chang, K. M., Tsao, P. S., Assimes, T. L., Davey-Smith, G. n., Voight, B. F.
  2020

- **Association of Premature Natural and Surgical Menopause With Incident Cardiovascular Disease**
  Honigberg, M. C., Zekavat, S., Aragam, K., Finneran, P., Klarin, D., Bhatt, D. L., Januzzi, J. L., Scott, N. S., Natarajan, P.
  AMER MEDICAL ASSOC.2019: 2411-2421

- **Long-Term Cardiovascular Risk in Women With Hypertension During Pregnancy** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
  Honigberg, M. C., Zekavat, S., Aragam, K., Klarin, D., Bhatt, D. L., Scott, N. S., Peloso, G. M., Natarajan, P.
  2019; 74 (22): 2743-2754

- **Genomic and transcriptomic association studies identify 16 novel susceptibility loci for venous thromboembolism** *BLOOD*
  Lindstrom, S., Wang, L., Smith, E. N., Gordon, W., Vlieg, A., de Andrade, M., Brody, J. A., Pattee, J. W., Haessler, J., Brumpton, B. M., Chasman, D. I., Suchon, P., Chen, et al
  2019; 134 (19): 1645-1657

- **Genome-wide association analysis of venous thromboembolism identifies new risk loci and genetic overlap with arterial vascular disease.** *Nature genetics*
  Klarin, D., Busenkell, E., Judy, R., Lynch, J., Levin, M., Haessler, J., Aragam, K., Chaffin, M., Haas, M., Lindstrom, S., Assimes, T. L., Huang, J., Min Lee, et al

2019

- **Mapping eGFR loci to the renal transcriptome and phenome in the VA Million Veteran Program.** *Nature communications*
  Hellwege, J. N., Velez Edwards, D. R., Giri, A., Qiu, C., Park, J., Torstenson, E. S., Keaton, J. M., Wilson, O. D., Robinson-Cohen, C., Chung, C. P., Roumie, C. L., Klarin, D., Damrauer, et al
  2019; 10 (1): 3842

- **Genome-wide association study of peripheral artery disease in the Million Veteran Program.** *Nature medicine*
  Klarin, D., Lynch, J., Aragam, K., Chaffin, M., Assimes, T. L., Huang, J., Lee, K. M., Shao, Q., Huffman, J. E., Natarajan, P., Arya, S., Small, A., Sun, et al
  2019

- **Genetic Association of Finger Photoplethysmography-Derived Arterial Stiffness Index With Blood Pressure and Coronary Artery Disease** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
  Zekavat, S. M., Aragam, K., Emdin, C., Khera, A. V., Klarin, D., Zhao, H., Natarajan, P.
  2019; 39 (6): 1253-1261

- **Genome-wide association study of alcohol consumption and use disorder in 274,424 individuals from multiple populations** *NATURE COMMUNICATIONS*
  Kranzler, H. R., Zhou, H., Kember, R. L., Smith, R., Justice, A. C., Damrauer, S., Tsao, P. S., Klarin, D., Baras, A., Reid, J., Oyerton, J., Rader, D. J., Cheng, et al
  2019; 10

- **DNA Sequence Variation in ACVR1C Encoding the Activin Receptor-Like Kinase 7 Influences Body Fat Distribution and Protects Against Type 2 Diabetes** *DIABETES*
  Emdin, C. A., Khera, A. V., Aragam, K., Haas, M., Chaffin, M., Klarin, D., Natarajan, P., Bick, A., Zekavat, S. M., Nomura, A., Ardissino, D., Wilson, J. G., Schunkert, et al
  2019; 68 (1): 226-234

- **Association of APOL1 Risk Alleles with Cardiovascular Disease in African Americans in the Million Veteran Program.** *Circulation*
  Bick, A. G., Akwo, E. n., Robinson-Cohen, C. n., Lee, K. n., Lynch, J. n., Assimes, T. L., DuVall, S. n., Edwards, T. n., Fang, H. n., Freiberg, S. M., Giri, A. n., Huffman, J. E., Huang, et al
  2019

- **Genome-wide association study of alcohol consumption and use disorder in 274,424 individuals from multiple populations.** *Nature communications*
  Kranzler, H. R., Zhou, H., Kember, R. L., Vickers Smith, R., Justice, A. C., Damrauer, S., Tsao, P. S., Klarin, D., Baras, A., Reid, J., Overton, J., Rader, D. J., Cheng, et al
  2019; 10 (1): 1499

- **Trans-ethnic association study of blood pressure determinants in over 750,000 individuals.** *Nature genetics*
  Giri, A., Hellwege, J. N., Keaton, J. M., Park, J., Qiu, C., Warren, H. R., Torstenson, E. S., Kovesdy, C. P., Sun, Y. V., Wilson, O. D., Robinson-Cohen, C., Roumie, C. L., Chung, et al
  2019; 51 (1): 51–62

- **Effects of Genetic Variants Associated with Familial Hypercholesterolemia on Low-Density Lipoprotein-Cholesterol Levels and Cardiovascular Outcomes in the Million Veteran Program** *CIRCULATION-GENOMIC AND PRECISION MEDICINE*
  Sun, Y., Damrauer, S. M., Hui, Q., Assimes, T. L., Ho, Y., Natarajan, P., Klarin, D., Huang, J., Lynch, J., Duvall, S. L., Pyarajan, S., Honerlaw, J. P., Gaziano, et al
  2018; 11 (12)

- **Effects of Genetic Variants Associated with Familial Hypercholesterolemia on Low-Density Lipoprotein-Cholesterol Levels and Cardiovascular Outcomes in the Million Veteran Program.** *Circulation. Genomic and precision medicine*
  Sun, Y. V., Damrauer, S. M., Hui, Q., Assimes, T. L., Ho, Y. L., Natarajan, P., Klarin, D., Huang, J., Lynch, J., DuVall, S. L., Pyarajan, S., Honerlaw, J. P., Gaziano, et al
  2018; 11 (12)

- **Atrial fibrillation genetic risk differentiates cardioembolic stroke from other stroke subtypes** *NEUROLOGY-GENETICS*
  Pulit, S. L., Weng, L., McArdle, P. F., Trinquart, L., Choi, S., Mitchell, B. D., Rosand, J., de Bakker, P. I. W., Benjamin, E. J., Ellinor, P. T., Kittner, S. J., Lubitz, S. A., Anderson, et al
  2018; 4 (6): e293

- **Effect of Genetic Variation in Loss of Function Variants in PCSK9 on Atherosclerotic Vascular Disease**
  Small, A. M., Huffman, J. E., Klarin, D., Lynch, J., Sun, Y., Lee, J. S., Assimes, T., Miller, D., Freiberg, M., Gaziano, J., Rader, D. J., Wilson, P. W., Cho, et al
  LIPPINCOTT WILLIAMS & WILKINS.2018

- **Risk factor profile and anatomic features of previously asymptomatic patients presenting with carotid-related stroke**
  Klarin, D., Cambria, R. P., Ergul, E. A., Silverman, S. B., Patel, V. I., LaMuraglia, G. M., Conrad, M. F., Clouse, W.
  MOSBY-ELSEVIER.2018: 1390-1395

- **Genetics of blood lipids among similar to 300,000 multi-ethnic participants of the Million Veteran Program** *NATURE GENETICS*
  Klarin, D., Damrauer, S. M., Cho, K., Sun, Y., Teslovich, T. M., Honerlaw, J., Gagnon, D. R., Du Vall, S. L., Li, J., Peloso, G. M., Chaffin, M., Small, A. M., Huang, et al
  2018; 50 (11): 1514-+

- **Genetics of blood lipids among ~300,000 multi-ethnic participants of the Million Veteran Program.** *Nature genetics*
  Klarin, D., Damrauer, S. M., Cho, K., Sun, Y. V., Teslovich, T. M., Honerlaw, J., Gagnon, D. R., DuVall, S. L., Li, J., Peloso, G. M., Chaffin, M., Small, A. M., Huang, et al
  2018

- **Phenotypic Consequences of a Genetic Predisposition to Enhanced Nitric Oxide Signaling** *CIRCULATION*
  Emdin, C. A., Khera, A. V., Klarin, D., Natarajan, P., Zekavat, S. M., Nomura, A., Haas, M., Aragam, K., Ardissino, D., Wilson, J. G., Schunkert, H., McPherson, R., Watkins, et al
  2018; 137 (3): 222-232

- **Heritability of Atrial Fibrillation** *CIRCULATION-CARDIOVASCULAR GENETICS*
  Weng, L., Choi, S., Klarin, D., Smith, J., Loh, P., Chaffin, M., Roselli, C., Hulme, O. L., Lunetta, K. L., Dupuis, J., Benjamin, E. J., Newton-Cheh, C., Kathiresan, et al
  2017; 10 (6)

- **Exome-wide association study of plasma lipids in > 300,000 individuals** *NATURE GENETICS*
  Liu, D. J., Peloso, G. M., Yu, H., Butterworth, A. S., Wang, X., Mahajan, A., Saleheen, D., Emdin, C., Alam, D., Alves, A., Amouyel, P., Di Angelantonio, E., Arveiler, et al
  2017; 49 (12): 1758-+

- **Genetic Interactions with Age, Sex, Body Mass Index, and Hypertension in Relation to Atrial Fibrillation: The AFGen Consortium** *SCIENTIFIC REPORTS*
  Weng, L., Lunetta, K. L., Mueller-Nurasyid, M., Smith, A., Theriault, S., Weeke, P. E., Barnard, J., Bis, J. C., Lyytikainen, L., Kleber, M. E., Martinsson, A., Lin, H. J., Rienstra, et al
  2017; 7: 11303

- **Genetic Variation at the Sulfonylurea Receptor, Type 2 Diabetes, and Coronary Heart Disease** *DIABETES*
  Emdin, C. A., Klarin, D., Natarajan, P., Florez, J. C., Kathiresan, S., Khera, A. V., CARDIOGRAM Exome Consortium
  2017; 66 (8): 2310-2315

- **A Genetic Variant Associated with Five Vascular Diseases Is a Distal Regulator of Endothelin-1 Gene Expression** *CELL*
  Gupta, R. M., Hadaya, J., Trehan, A., Zekavat, S. M., Roselli, C., Klarin, D., Emdin, C. A., Hilvering, C. R. E., Bianchi, V., Mueller, C., Khera, A. V., Ryan, R. J. H., Engreitz, et al
  2017; 170 (3): 522-+

- **Protein-Truncating Variants at the Cholesteryl Ester Transfer Protein Gene and Risk for Coronary Heart Disease** *CIRCULATION RESEARCH*
  Nomura, A., Won, H., Khera, A. V., Takeuchi, F., Ito, K., McCarthy, S., Emdin, C. A., Klarin, D., Natarajan, P., Zekavat, S. M., Gupta, N., Peloso, G. M., Borecki, et al
  2017; 121 (1): 81-+

- **Large-scale analyses of common and rare variants identify 12 new loci associated with atrial fibrillation.** *Nature genetics*
  Christophersen, I. E., Rienstra, M., Roselli, C., Yin, X., Geelhoed, B., Barnard, J., Lin, H., Arking, D. E., Smith, A. V., Albert, C. M., Chaffin, M., Tucker, N. R., Li, et al
  2017; 49 (6): 946-952

- **Genetic Evidence for Overlap in the Pathogenesis of Peripheral Artery Disease and Coronary Artery Disease**

Klarin, D., Small, A., Huang, J., Lynch, J., Arya, S., Assimes, T. L., Natarajan, P., Saleheen, D., Kathiresan, S., Rader, D. J., Concato, J., Gaziano, J., Cho, et al

LIPPINCOTT WILLIAMS & WILKINS.2017

- **ANGPTL3 Deficiency and Protection Against Coronary Artery Disease** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*

  Stitziel, N. O., Khera, A. V., Wang, X., Bierhals, A. J., Vourakis, A., Sperry, A. E., Natarajan, P., Klarin, D., Emdin, C. A., Zekavat, S. M., Nomura, A., Erdmann, J., Schunkert, et al

  2017; 69 (16): 2054-2063

- **Genetic Analysis of Venous Thromboembolism in UK Biobank Identifies the ZFPM2 Locus and Implicates Obesity as a Causal Risk Factor** *CIRCULATION-CARDIOVASCULAR GENETICS*

  Klarin, D., Emdin, C. A., Natarajan, P., Conrad, M. F., Kathiresan, S., INVENT Consortium

  2017; 10 (2)

- **Evaluation of the Pooled Cohort Equations for Prediction of Cardiovascular Risk in a Contemporary Prospective Cohort** *AMERICAN JOURNAL OF CARDIOLOGY*

  Emdin, C. A., Khera, A. V., Natarajan, P., Klarin, D., Baber, U., Mehran, R., Rader, D. J., Fuster, V., Kathiresan, S.

  2017; 119 (6): 881-885

- **Genetic Association of Waist-to-Hip Ratio With Cardiometabolic Traits, Type 2 Diabetes, and Coronary Heart Disease** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*

  Emdin, C. A., Khera, A. V., Natarajan, P., Klarin, D., Zekavat, S. M., Hsiao, A. J., Kathiresan, S.

  2017; 317 (6): 626-634

- **Genetic analysis in UK Biobank links insulin resistance and transendothelial migration pathways to coronary artery disease.** *Nature genetics*

  Klarin, D., Zhu, Q. M., Emdin, C. A., Chaffin, M., Horner, S., McMillan, B. J., Leed, A., Weale, M. E., Spencer, C. C., Aguet, F., Segrè, A. V., Ardlie, K. G., Khera, et al

  2017; 49 (9): 1392-1397

- **Phenotypic Characterization of Genetically Lowered Human Lipoprotein(a) Levels** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*

  Emdin, C. A., Khera, A. V., Natarajan, P., Klarin, D., Won, H., Peloso, G. M., Stitziel, N. O., Nomura, A., Zekavat, S. M., Bick, A. G., Gupta, N., Asselta, R., Duga, et al

  2016; 68 (25): 2761-2772

- **Gene-gene Interaction Analyses for Atrial Fibrillation** *SCIENTIFIC REPORTS*

  Lin, H., Mueller-Nurasyid, M., Smith, A. V., Arking, D. E., Barnard, J., Bartz, T. M., Lunetta, K. L., Lohman, K., Kleber, M. E., Lubitz, S. A., Geelhoed, B., Trompet, S., Niemeijer, et al

  2016; 6: 35371

- **Perioperative and long-term impact of chronic kidney disease on carotid artery interventions** *JOURNAL OF VASCULAR SURGERY*

  Klarin, D., Lancaster, R. T., Ergul, E., Bertges, D., Goodney, P., Schermerhorn, M. L., Cambria, R. P., Patel, V. I., Vasc Study Grp New England

  2016; 64 (5): 1295-1302

- **Low-Dose IL-2 for In Vivo Expansion of CD4(+) and CD8(+) Regulatory T Cells in Nonhuman Primates** *AMERICAN JOURNAL OF TRANSPLANTATION*

  Aoyama, A., Klarin, D., Yamada, Y., Boskovic, S., Nadazdin, O., Kawai, K., Schoenfeld, D., Madsen, J. C., Cosimi, A. B., Benichou, G., Kawai, T.

  2012; 12 (9): 2532-2537

- **Dynamic Multibody Protein Interactions Suggest Versatile Pathways for Copper Trafficking** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*

  Keller, A. M., Benitez, J. J., Klarin, D., Zhong, L., Goldfogel, M., Yang, F., Chen, T., Chen, P.

  2012; 134 (21): 8934-8943