




Joshua W. Knowles

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

Medicine - Cardiovascular Medicine

 NIH Biosketch available Online

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Cardiovascular Medicine**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Marina Romero

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Bio

BIO

Josh Knowles is a physician-scientist and the overall theme my research has been the genetic basis of cardiovascular disease across the continuum from Discovery to the development of Model Systems to the Translation of these findings to the clinic and most recently to the Public Health aspect of genetics. He completed his MD-PhD at UNC with Prof. Nobuyo Maeda and Nobel Laureate Oliver Smithies. He did Internal Medicine residency and Cardiology fellowship training at Stanford working with Dr. Tom Quertermous. Currently his Discovery and basic translational efforts center on understanding the genetic basis of insulin resistance using GWAS studies coupled with exploration in model systems. His clinical translational focus is on Familial Hypercholesterolemia (FH) and he is the volunteer Chief Medical Advisor of the FH Foundation (FHF) which is a patient-led organization dedicated to increasing awareness of FH, identifying and treating patients with FH and screening family members to prevent deleterious outcomes. He helped lead the FHF efforts to establish a national patient registry (CASCADE FH), apply for an ICD10 code for FH and is now using cutting-edge “big-data” approaches to identify previously undiagnosed FH patients in electronic medical records (FIND FH). He has published over 90 papers with research projects currently funded by the National Institutes of Health, the American Heart Association and the Doris Duke Charitable Foundation.

CLINICAL FOCUS

- Cardiology
- Insulin Resistance
- Familial Hypercholesterolemia
- Cardiovascular Disease
- Genetics

ACADEMIC APPOINTMENTS

- Assistant Professor - Med Center Line, Medicine - Cardiovascular Medicine
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Co-Section Chief, Metabolism and Insulin Signaling, Stanford Diabetes Research Center`, (2017- present)
- Program Director, Cardiovascular Medicine Fellowship Program, (2018- present)
- Co-Director, Translational Investigator Program, (2017- present)
- Chief, Translational Medicine, The FH Foundation, (2012- present)

HONORS AND AWARDS

- National Innovative Research Award, AHA
- Dean's Fellowship, Stanford (2005)
- Clinical Scholar, Doris Duke Charitable Foundation (6/1/16-6/1/19)
- Fellowship Award, Future Leaders in CV Medicine (2006)
- Alderman Award for Excellence in Clinical Research, Stanford Cardiovascular Medicine (2008, 2009)
- Diplomate, National Lipid Association (2012)
- Fellow, AHA (2012)
- Fellow, ACC (2012)
- National Fellow to Faculty Transition Award, AHA (7/1/10-7/1/15)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Board Member, The FH Foundation (2012 - present)

PROFESSIONAL EDUCATION

- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2010)
- Fellowship: Stanford University School of Medicine (2010) CA
- Residency: Stanford University School of Medicine (2005) CA
- Medical Education: University of North Carolina - Chapel Hill (2003) NC
- PhD, University of North Carolina, Chapel Hill , Genetics and Molecular Biology (2001)

COMMUNITY AND INTERNATIONAL WORK

- The FH Foundation
- Arbor Free Clinic

LINKS

- Stanford Center for Inherited Cardiovascular Disease: <http://familyheart.stanford.edu>
- The FH Foundation: <http://www.thefhfoundation.org>
- Stanford TIP: <https://medicine.stanford.edu/residency/tip.html>
- Stanford Cardiology Fellowship: <http://med.stanford.edu/cvmedicine/education/general-cardiology-fellowship.html>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The overall theme of my work is to understand the genetic basis of complex cardiovascular diseases such as coronary disease and insulin resistance. Currently, I am involved in genome wide association (GWA) studies of coronary disease through the NIH-funded ADVANCE study and of insulin resistance through the international

GENESIS project. After using the GWA approach to discover and validate interesting candidate genes, I hope to explore the biology underlying these genes and pathways using cell culture and in vivo model systems. I am also using iPSC technology (induced pluripotent stem cells) to develop model systems for the study of insulin resistance through the NIH-funded GENESiPS project.

I also have a strong interest in developing tools to help translate newly emerging genetic data into clinical practice and am currently the PI of a randomized trial where we are examining whether we can improve patient coronary disease risk factor profiles by giving them information about their inherited risk of coronary disease.

Clinically, I am interested in the care of patients with inherited cardiovascular conditions. In particular I am focused on individuals with Familial Hypercholesterolemia. I also have an interest in treating Hypertrophic Cardiomyopathy. I take care of these patients in the Stanford Center for Inherited Cardiovascular Disease.

CLINICAL TRIALS

- Relationship Between Insulin Resistance and Statin Induced Type 2 Diabetes, and Integrative Personal Omics Profiling, Recruiting
- Personal Genomics for Preventive Cardiology, Not Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Peter Saliba Gustafsson, Panjamaporn Sangwung

Postdoctoral Research Mentor

Panjamaporn Sangwung

Publications

PUBLICATIONS

- **Association of insulin resistance, from mid-life to late-life, with aortic stiffness in late-life: the Atherosclerosis Risk in Communities Study.** *Cardiovascular diabetology*
Poon, A. K., Meyer, M. L., Tanaka, H., Selvin, E., Pankow, J., Zeng, D., Loehr, L., Knowles, J. W., Rosamond, W., Heiss, G.
2020; 19 (1): 11
- **Effect of Alirocumab on Lipoprotein(a) and Cardiovascular Risk After Acute Coronary Syndrome.** *Journal of the American College of Cardiology*
Bittner, V. A., Szarek, M., Aylward, P. E., Bhatt, D. L., Diaz, R., Edelberg, J. M., Fras, Z., Goodman, S. G., Halvorsen, S., Hanotin, C., Harrington, R. A., Jukema, J. W., Loizeau, et al
2020; 75 (2): 133–44
- **Cardiorespiratory Fitness, Body-Mass Index, and Markers of Insulin Resistance in Apparently Healthy Women and Men.** *The American journal of medicine*
Clarke, S. L., Reaven, G. M., Leonard, D., Barlow, C. E., Haskell, W. L., Willis, B. L., DeFina, L., Knowles, J. W., Maron, D. J.
2020
- **Mitochondrial dysfunction, insulin resistance and potential genetic implications.** *Endocrinology*
Sangwung, P., Petersen, K. F., Shulman, G. I., Knowles, J. W.
2020
- **RNA Interference Targeting Apolipoprotein C-III Results in Deep and Prolonged Reductions in Plasma Triglycerides**
Schwabe, C., Scott, R., Sullivan, D. R., Baker, J., Clifton, P., Hamilton, J., Given, B., Melquist, S., Knowles, J., Hegele, R. A., Ballantyne, C. M.
LIPPINCOTT WILLIAMS & WILKINS.2019: E987
- **RNA Interference Targeting Hepatic Angiotensin-Like Protein 3 Results in Prolonged Reductions in Plasma Triglycerides and LDL-C in Human Subjects**

Watts, G. F., Schwabe, C., Scott, R., Gladding, P., Sullivan, D. R., Baker, J., Clifton, P., Hamilton, J., Given, B., Melquist, S., Knowles, J., Hegele, R. A., Ballantyne, et al
LIPPINCOTT WILLIAMS & WILKINS.2019: E987–E988

- **Alirocumab in Patients With Polyvascular Disease and Recent Acute Coronary Syndrome ODYSSEY OUTCOMES Trial** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Jukema, J., Szarek, M., Zijlstra, L. E., de Silva, H., Bhatt, D. L., Bittner, V. A., Diaz, R., Edelberg, J. M., Goodman, S. G., Hanotin, C., Harrington, R. A., Karpov, Y., Moryusef, et al
2019; 74 (9): 1167–76
- **Risk Categorization Using New American College of Cardiology/American Heart Association Guidelines for Cholesterol Management and Its Relation to Alirocumab Treatment Following Acute Coronary Syndromes.** *Circulation*
Roe, M. T., Li, Q. H., Bhatt, D. L., Bittner, V. A., Diaz, R., Goodman, S. G., Harrington, R. A., Jukema, J. W., Lopez-Jaramillo, P., Lopes, R. D., Louie, M. J., Moriarty, P. M., Szarek, et al
2019
- **SPECIFICATION OF ACMG/AMP GUIDELINES FOR VARIANT INTERPRETATION IN FAMILIAL HYPERCHOLESTEROLEMIA**
Chora, J. R., Iacocca, M. A., Carrie, A., Leigh, S. E., Tichy, L., Kurtz, C. L., Freiberger, T., Sijbrands, E. J., Hegele, R. A., Knowles, J. W., Bourbon, M.
ELSEVIER IRELAND LTD.2019: E68
- **The role of insulin as a key regulator of seeding, proliferation, and mRNA transcription of human pluripotent stem cells.** *Stem cell research & therapy*
Shahbazi, M., Cundiff, P., Zhou, W., Lee, P., Patel, A., D'Souza, S. L., Abbasi, F., Quertermous, T., Knowles, J. W.
2019; 10 (1): 228
- **Effects of alirocumab on cardiovascular and metabolic outcomes after acute coronary syndrome in patients with or without diabetes: a prespecified analysis of the ODYSSEY OUTCOMES randomised controlled trial.** *The lancet. Diabetes & endocrinology*
Ray, K. K., Colhoun, H. M., Szarek, M., Baccara-Dinet, M., Bhatt, D. L., Bittner, V. A., Budaj, A. J., Diaz, R., Goodman, S. G., Hanotin, C., Harrington, R. A., Jukema, J. W., Loizeau, et al
2019
- **Polygenic risk scores in coronary artery disease** *CURRENT OPINION IN CARDIOLOGY*
Rao, A. S., Knowles, J. W.
2019; 34 (4): 435–40
- **Trends in overall, cardiovascular and cancer-related mortality among individuals with diabetes reported on death certificates in the United States between 2007 and 2017** *DIABETOLOGIA*
Kim, D., Li, A. A., Cholankeril, G., Kim, S. H., Ingelsson, E., Knowles, J. W., Harrington, R. A., Ahmed, A.
2019; 62 (7): 1185–94
- **No evidence of a causal association of type 2 diabetes and glucose metabolism with atrial fibrillation** *DIABETOLOGIA*
Harati, H., Zanetti, D., Rao, A., Gustafsson, S., Perez, M., Ingelsson, E., Knowles, J. W.
2019; 62 (5): 800–804
- **Trends in overall, cardiovascular and cancer-related mortality among individuals with diabetes reported on death certificates in the United States between 2007 and 2017.** *Diabetologia*
Kim, D., Li, A. A., Cholankeril, G., Kim, S. H., Ingelsson, E., Knowles, J. W., Harrington, R. A., Ahmed, A.
2019
- **Body composition and atrial fibrillation: a Mendelian randomization study** *EUROPEAN HEART JOURNAL*
Tikkanen, E., Gustafsson, S., Knowles, J. W., Perez, M., Burgess, S., Ingelsson, E.
2019; 40 (16): 1277–+
- **Polygenic risk scores in coronary artery disease.** *Current opinion in cardiology*
Rao, A. S., Knowles, J. W.
2019
- **Finding missed cases of familial hypercholesterolemia in health systems using machine learning** *NPJ DIGITAL MEDICINE*
Banda, J. M., Sarraju, A., Abbasi, F., Parizo, J., Pariani, M., Ison, H., Briskin, E., Wand, H., Dubois, S., Jung, K., Myers, S. A., Rader, D. J., Leader, et al
2019; 2
- **Impact of race/ethnicity on insulin resistance and hypertriglyceridaemia** *DIABETES & VASCULAR DISEASE RESEARCH*

- Raygor, V., Abbasi, F., Lazzeroni, L. C., Kim, S., Ingelsson, E., Reaven, G. M., Knowles, J. W.
2019; 16 (2): 153–59
- **Association of Statin Adherence With Mortality in Patients With Atherosclerotic Cardiovascular Disease** *JAMA CARDIOLOGY*
Rodriguez, F., Maron, D. J., Knowles, J. W., Virani, S. S., Lin, S., Heidenreich, P. A.
2019; 4 (3): 206–13
 - **No evidence of a causal association of type 2 diabetes and glucose metabolism with atrial fibrillation.** *Diabetologia*
Harati, H., Zanetti, D., Rao, A., Gustafsson, S., Perez, M., Ingelsson, E., Knowles, J. W.
2019
 - **Body composition and atrial fibrillation: a Mendelian randomization study.** *European heart journal*
Tikkanen, E., Gustafsson, S., Knowles, J. W., Perez, M., Burgess, S., Ingelsson, E.
2019
 - **Alirocumab Reduces Total Nonfatal Cardiovascular and Fatal Events The ODYSSEY OUTCOMES Trial** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Szarek, M., White, H. D., Schwartz, G. G., Alings, M., Bhatt, D. L., Bittner, V. A., Chiang, C., Diaz, R., Edelberg, J. M., Goodman, S. G., Hanotin, C., Harrington, R. A., Jukema, et al
2019; 73 (4): 387–96
 - **Genetic Testing and Risk Scores: Impact on Familial Hypercholesterolemia** *FRONTIERS IN CARDIOVASCULAR MEDICINE*
Sarraf, A., Knowles, J. W.
2019; 6
 - **Finding missed cases of familial hypercholesterolemia in health systems using machine learning.** *NPJ digital medicine*
Banda, J. M., Sarraf, A., Abbasi, F., Parizo, J., Pariani, M., Ison, H., Briskin, E., Wand, H., Dubois, S., Jung, K., Myers, S. A., Rader, D. J., Leader, et al
2019; 2: 23
 - **Longitudinal low density lipoprotein cholesterol goal achievement and cardiovascular outcomes among adult patients with familial hypercholesterolemia: The CASCADE FH registry.** *Atherosclerosis*
Duell, P. B., Gidding, S. S., Andersen, R. L., Knickelbine, T., Anderson, L., Gianos, E., Shrader, P., Kindt, I., O'Brien, E. C., McCann, D., Hemphill, L. C., Ahmed, C. D., Martin, et al
2019; 289: 85–93
 - **Safety and Efficacy of PCSK9 Inhibitors After Heart Transplantation** *CANADIAN JOURNAL OF CARDIOLOGY*
Moayed, Y., Kozusko, S., Knowles, J. W., Chih, S., Oro, G., Lee, R., Fearon, W. F., Ross, H. J., Teuteberg, J. J., Khush, K. K.
2019; 35 (1)
 - **CRISPR-Cas9-mediated knockout of SPRY2 in human hepatocytes leads to increased glucose uptake and lipid droplet accumulation.** *BMC endocrine disorders*
Cook, N. L., Pjanic, M., Emmerich, A. G., Rao, A. S., Hetty, S., Knowles, J. W., Quertermous, T., Castillejo-López, C., Ingelsson, E.
2019; 19 (1): 115
 - **Effects of Alirocumab on Cardiovascular Events After Coronary Bypass Surgery.** *Journal of the American College of Cardiology*
Goodman, S. G., Aylward, P. E., Szarek, M., Chumburidze, V., Bhatt, D. L., Bittner, V. A., Diaz, R., Edelberg, J. M., Hanotin, C., Harrington, R. A., Jukema, J. W., Kedev, S., Letierce, et al
2019; 74 (9): 1177–86
 - **Effects of alirocumab on types of myocardial infarction: insights from the ODYSSEY OUTCOMES trial.** *European heart journal*
White, H. D., Steg, P. G., Szarek, M., Bhatt, D. L., Bittner, V. A., Diaz, R., Edelberg, J. M., Erglis, A., Goodman, S. G., Hanotin, C., Harrington, R. A., Jukema, J. W., Lopes, et al
2019
 - **Safety and Efficacy of PCSK9 Inhibitors After Heart Transplantation.** *The Canadian journal of cardiology*
Moayed, Y., Kozusko, S., Knowles, J. W., Chih, S., Oro, G., Lee, R., Fearon, W. F., Ross, H. J., Teuteberg, J. J., Khush, K. K.
2019; 35 (1)
 - **Genetic Testing and Risk Scores: Impact on Familial Hypercholesterolemia.** *Frontiers in cardiovascular medicine*
Sarraf, A., Knowles, J. W.
2019; 6: 5

- **Association of Statin Adherence With Mortality in Patients With Atherosclerotic Cardiovascular Disease.** *JAMA cardiology*
Rodriguez, F., Maron, D. J., Knowles, J. W., Virani, S. S., Lin, S., Heidenreich, P. A.
2019
- **Impact of race/ethnicity on insulin resistance and hypertriglyceridaemia.** *Diabetes & vascular disease research*
Raygor, V., Abbasi, F., Lazzeroni, L. C., Kim, S., Ingelsson, E., Reaven, G. M., Knowles, J. W.
2019; 16 (2): 153–59
- **Increasing Mortality Among Patients With Diabetes and Chronic Liver Disease From 2007 Through 2017.** *Clinical gastroenterology and hepatology : the official clinical practice journal of the American Gastroenterological Association*
Kim, D., Cholankeril, G., Kim, S. H., Abbasi, F., Knowles, J. W., Ahmed, A.
2019
- **Effect of Alirocumab on Mortality After Acute Coronary Syndromes: An Analysis of the ODYSSEY OUTCOMES Randomized Clinical Trial.** *Circulation*
Steg, P. G., Szarek, M., Bhatt, D. L., Bittner, V. A., Brégaault, M. F., Dalby, A. J., Diaz, R., Edelberg, J. M., Goodman, S. G., Hanotin, C., Harrington, R. A., Jukema, J. W., Lecorps, et al
2019
- **Alirocumab and Cardiovascular Outcomes after Acute Coronary Syndrome** *NEW ENGLAND JOURNAL OF MEDICINE*
Schwartz, G. G., Steg, P. G., Szarek, M., Bhatt, D. L., Bittner, V. A., Diaz, R., Edelberg, J. M., Goodman, S. G., Hanotin, C., Harrington, R. A., Jukema, J. W., Lecorps, G., Mahaffey, et al
2018; 379 (22): 2097–2107
- **ClinVar database of global familial hypercholesterolemia-associated DNA variants.** *Human mutation*
Iacocca, M. A., Chora, J. R., Carrie, A., Freiburger, T., Leigh, S. E., Defesche, J. C., Kurtz, C. L., DiStefano, M. T., Santos, R. D., Humphries, S. E., Mata, P., Jannes, C. E., Hooper, et al
2018; 39 (11): 1631–40
- **ClinVar database of global familial hypercholesterolemia-associated DNA variants** *HUMAN MUTATION*
Iacocca, M. A., Chora, J. R., Carrie, A., Freiburger, T., Leigh, S. E., Defesche, J. C., Kurtz, C., DiStefano, M. T., Santos, R. D., Humphries, S. E., Mata, P., Jannes, C. E., Hooper, et al
2018; 39 (11): 1631–40
- **Large Q and S waves in lead III on the electrocardiogram distinguish patients with hypertrophic cardiomyopathy from athletes** *HEART*
Chen, A. S., Bent, R. E., Wheeler, M., Knowles, J. W., Haddad, F., Froelicher, V., Ashley, E., Perez, M. V.
2018; 104 (22): 1871–77
- **Genome-wide scan for circulating vascular adhesion protein-1 levels: MACROD2 as a potential transcriptional regulator of adipogenesis** *JOURNAL OF DIABETES INVESTIGATION*
Chang, Y., Hee, S., Lee, W., Li, H., Chang, T., Lin, M., Hung, Y., Lee, I., Hung, K., Assimes, T., Knowles, J. W., Nong, J., Lee, et al
2018; 9 (5): 1067–74
- **Frequency of Statin Use in Patients With Low-Density Lipoprotein Cholesterol \geq 190 mg/dl from the Veterans Affairs Health System** *AMERICAN JOURNAL OF CARDIOLOGY*
Rodriguez, F., Knowles, J. W., Maron, D. J., Virani, S. S., Heidenreich, P. A.
2018; 122 (5): 756–61
- **Clinical Genetic Testing for Familial Hypercholesterolemia** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Sturm, A. C., Knowles, J. W., Gidding, S. S., Ahmad, Z. S., Ahmed, C. D., Ballantyne, C. M., Baum, S. J., Bourbon, M., Carrie, A., Cuchel, M., de Ferranti, S. D., Defesche, J. C., Freiburger, et al
2018; 72 (6): 662–80
- **Large-Scale Phenome-Wide Association Study of PCSK9 Variants Demonstrates Protection Against Ischemic Stroke** *CIRCULATION-GENOMIC AND PRECISION MEDICINE*
Rao, A. S., Lindholm, D., Rivas, M. A., Knowles, J. W., Montgomery, S. B., Ingelsson, E.
2018; 11 (7): e002162
- **Frequency of Statin Use in Patients With Low-Density Lipoprotein Cholesterol \geq 190 mg/dl from the Veterans Affairs Health System.** *The American journal of cardiology*
Rodriguez, F., Knowles, J. W., Maron, D. J., Virani, S. S., Heidenreich, P. A.
2018

- **Short-Term Repeatability of Insulin Resistance Indexes in Older Adults: The Atherosclerosis Risk in Communities Study** *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*
Poon, A. K., Meyer, M. L., Reaven, G., Knowles, J. W., Selvin, E., Pankow, J. S., Couper, D., Loehr, L., Heiss, G.
2018; 103 (6): 2175–81
- **ADAPTATION OF ACMG/AMP GUIDELINES FOR STANDARDIZED VARIANT INTERPRETATION IN FAMILIAL HYPERCHOLESTEROLEMIA**
Iacocca, M. A., Chora, J., Carrie, A., Leigh, S. E., Tichy, L., DiStefano, M. T., Defesche, J., Kurtz, C. L., Sijbrands, E. J., Freiburger, T., Hegele, R. A., Knowles, J. W., Bourbon, et al
ELSEVIER IRELAND LTD.2018: 51
- **Large Q and S waves in lead III on the electrocardiogram distinguish patients with hypertrophic cardiomyopathy from athletes.** *Heart (British Cardiac Society)*
Chen, A. S., Bent, R. E., Wheeler, M., Knowles, J. W., Haddad, F., Froelicher, V., Ashley, E., Perez, M. V.
2018
- **Cardiovascular disease: The rise of the genetic risk score** *PLOS MEDICINE*
Knowles, J. W., Ashley, E. A.
2018; 15 (3): e1002546
- **First Trimester Plasma Glucose Values in Women without Diabetes are Associated with Risk for Congenital Heart Disease in Offspring.** *The Journal of pediatrics*
Helle, E. I., Biegley, P., Knowles, J. W., Leader, J. B., Pendergrass, S., Yang, W., Reaven, G. R., Shaw, G. M., Ritchie, M., Priest, J. R.
2018; 195: 275–78
- **Health disparities among adult patients with a phenotypic diagnosis of familial hypercholesterolemia in the CASCADE-FH (TM) patient registry** *ATHEROSCLEROSIS*
Amrock, S. M., Duell, P., Knickelbine, T., Martin, S. S., O'Brien, E. C., Watson, K. E., Mitri, J., Kindt, I., Shrader, P., Baum, S. J., Hemphill, L. C., Ahmed, C. D., Andersen, et al
2017; 267: 19–26
- **Relationship between simple markers of insulin resistance and coronary artery calcification** *JOURNAL OF CLINICAL LIPIDOLOGY*
Reaven, G. M., Knowles, J. W., Leonard, D., Barlow, C. E., Willis, B. L., Haskell, W. L., Maron, D. J.
2017; 11 (4): 1007–12
- **Cascade Screening for Familial Hypercholesterolemia and the Use of Genetic Testing** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Knowles, J. W., Rader, D. J., Khoury, M. J.
2017; 318 (4): 381–82
- **Access to Nonstatin Lipid-Lowering Therapies in Patients at High Risk of Atherosclerotic Cardiovascular Disease** *CIRCULATION*
Knowles, J. W., Howard, W. B., Karayan, L., Baum, S. J., Wilemon, K. A., Ballantyne, C. M., Myers, K. D.
2017; 135 (22): 2204–6
- **Leveraging Human Genetics to Understand the Relation of LDL Cholesterol with Type 2 Diabetes.** *Clinical chemistry*
Ingelsson, E., Knowles, J. W.
2017
- **Analysis of Transcriptional Variability in a Large Human iPSC Library Reveals Genetic and Non-genetic Determinants of Heterogeneity** *CELL STEM CELL*
Carcamo-Orive, I., Hoffman, G. E., Cundiff, P., Beckmann, N. D., D'Souza, S. L., Knowles, J. W., Patel, A., Papatsenko, D., Abbasi, F., Reaven, G. M., Whalen, S., Lee, P., Shahbazi, et al
2017; 20 (4): 518-?
- **The role of registries and genetic databases in familial hypercholesterolemia.** *Current opinion in lipidology*
Kindt, I., Mata, P., Knowles, J. W.
2017; 28 (2): 152-160
- **PREDICTORS OF STATIN USE FOR PATIENTS WITH LDL CHOLESTEROL ABOVE 190MG/DL: INSIGHTS FROM THE VETERANS AFFAIRS HEALTH CARE SYSTEM**
Rodriguez, F., Knowles, J., Maron, D., Virani, S., Heidenreich, P.
ELSEVIER SCIENCE INC.2017: 1693

- **Association Between Intensity of Statin Therapy and Mortality in Patients With Atherosclerotic Cardiovascular Disease.** *JAMA cardiology*
Rodriguez, F., Maron, D. J., Knowles, J. W., Virani, S. S., Lin, S., Heidenreich, P. A.
2017; 2 (1): 47-54
- **Impact of a Genetic Risk Score for Coronary Artery Disease on Reducing Cardiovascular Risk: A Pilot Randomized Controlled Study.** *Frontiers in cardiovascular medicine*
Knowles, J. W., Zarafshar, S., Pavlovic, A., Goldstein, B. A., Tsai, S., Li, J., McConnell, M. V., Absher, D., Ashley, E. A., Kiernan, M., Ioannidis, J. P., Assimes, T. L.
2017; 4: 53
- **Is ACS in Young Patients a "Canary in the Coal Mine" for Familial Hypercholesterolemia?** *Journal of the American College of Cardiology*
Knowles, J. W., Sarraju, A.
2017; 70 (14): 1741-43
- **Induced Pluripotent Stem Cell-Derived Endothelial Cells in Insulin Resistance and Metabolic Syndrome.** *Arteriosclerosis, thrombosis, and vascular biology*
Carcamo-Orive, I., Huang, N. F., Quertermous, T., Knowles, J. W.
2017; 37 (11): 2038-42
- **Analysis of Transcriptional Variability in a Large Human iPSC Library Reveals Genetic and Non-genetic Determinants of Heterogeneity.** *Cell stem cell*
Carcamo-Orive, I., Hoffman, G. E., Cundiff, P., Beckmann, N. D., D'Souza, S. L., Knowles, J. W., Patel, A., Papatsenko, D., Abbasi, F., Reaven, G. M., Whalen, S., Lee, P., Shahbazi, et al
2016
- **Use of high-intensity statins for patients with atherosclerotic cardiovascular disease in the Veterans Affairs Health System: Practice impact of the new cholesterol guidelines** *AMERICAN HEART JOURNAL*
Rodriguez, F., Lin, S., Maron, D. J., Knowles, J. W., Virani, S. S., Heidenreich, P. A.
2016; 182: 97-102
- **Novel Therapies for Familial Hypercholesterolemia.** *Current treatment options in cardiovascular medicine*
Parizo, J., Sarraju, A., Knowles, J. W.
2016; 18 (11): 64-?
- **Metabolic Markers to Predict Incident Diabetes Mellitus in Statin-Treated Patients (from the Treating to New Targets and the Stroke Prevention by Aggressive Reduction in Cholesterol Levels Trials).** *American journal of cardiology*
Kohli, P., Knowles, J. W., Sarraju, A., Waters, D. D., Reaven, G.
2016; 118 (9): 1275-1281
- **Nat1 Deficiency Is Associated with Mitochondrial Dysfunction and Exercise Intolerance in Mice** *CELL REPORTS*
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