



Joshua W. Knowles

Assistant Professor of Medicine (Cardiovascular Medicine)

Medicine - Cardiovascular Medicine

 NIH Biosketch available Online

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Cardiovascular Medicine**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Melissa Slocumb

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Bio

BIO

I am 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. I completed his MD-PhD at UNC with Prof. Nobuyo Maeda and Nobel Laureate Oliver Smithies. I did Internal Medicine residency and Cardiology fellowship training at Stanford working with Dr. Tom Quertermous. Currently my Discovery and basic translational efforts center on understanding the genetic basis of insulin resistance using GWAS studies coupled with exploration in model systems including iPSCs and CRISPR screens. My clinical translational focus is on Familial Hypercholesterolemia (FH) and I am 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. I helped lead the FHF efforts to establish a national patient registry (CASCADE FH), apply for an ICD10 code for FH and am now using cutting-edge “big-data” approaches to identify previously undiagnosed FH patients in electronic medical records (FIND FH). I have published over 90 papers with research projects currently funded by the National Institutes of Health, the American Diabetes Association, the American Heart Association and the Doris Duke Charitable Foundation.

CLINICAL FOCUS

- Cardiology
- Insulin Resistance
- Familial Hypercholesterolemia
- Cardiovascular Disease
- Genetics
- Preventive cardiology
- Cholesterol
- Hypertriglyceridemia
- Polygenic risk
- statin intolerance

ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Medicine - Cardiovascular Medicine
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Wu Tsai Human Performance Alliance
- 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

- Fellowship: Stanford University Cardiovascular Medicine Fellowship (2010) CA
- Residency: Stanford University Internal Medicine Residency (2005) CA
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2010)
- 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

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

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Peter Saliba Gustafsson

Publications

PUBLICATIONS

- **Generation of two iPSC lines from hypertrophic cardiomyopathy patients carrying MYBPC3 and PRKAG2 variants.** *Stem cell research*
Manhas, A., Jahng, J. W., Vera, C. D., Shenoy, S. P., Knowles, J. W., Wu, J. C.
2022; 61: 102774
- **Integration of genetic colocalizations with physiological and pharmacological perturbations identifies cardiometabolic disease genes.** *Genome medicine*
Gludemans, M. J., Balliu, B., Nachun, D., Schnurr, T. M., Durrant, M. G., Ingelsson, E., Wabitsch, M., Quertermous, T., Montgomery, S. B., Knowles, J. W., Carcamo-Orive, I.
2022; 14 (1): 31
- **Integration of genetic colocalizations with physiological and pharmacological perturbations identifies cardiometabolic disease genes**
Gludemans, M. J., Balliu, B., Nachun, D., Durrant, M. G., Ingelsson, E., Wabitsch, M., Quertermous, T., Montgomery, S. B., Knowles, J., Carcamo-Orive, I.
W B SAUNDERS CO-ELSEVIER INC.2022: S24-S25
- **A guide for the diagnosis of rare and undiagnosed disease: beyond the exome.** *Genome medicine*
Marwaha, S., Knowles, J. W., Ashley, E. A.
2022; 14 (1): 23
- **Online Patient Education Materials Related to Lipoprotein(a): Readability Assessment.** *Journal of medical Internet research*
Pearson, K., Ngo, S., Ekpo, E., Sarraju, A., Baird, G., Knowles, J., Rodriguez, F.
1800; 24 (1): e31284

- **Coronary Artery Disease Risk of Familial Hypercholesterolemia Genetic Variants Independent of Clinically Observed Longitudinal Cholesterol Exposure.** *Circulation. Genomic and precision medicine*
Clarke, S. L., Tcheandjieu, C., Hilliard, A. T., Lee, M., Lynch, J., Chang, K. M., Miller, D., Knowles, J. W., O'Donnell, C., Tsao, P., Rader, D. J., Wilson, P. W., Sun, et al
2022: CIRCGEN121003501
- **Interactions of physical activity, muscular fitness, adiposity, and genetic risk for NAFLD.** *Hepatology communications*
Schnurr, T. M., Katz, S. F., Justesen, J. M., O'Sullivan, J. W., Saliba-Gustafsson, P., Assimes, T. L., Carcamo-Orive, I., Ahmed, A., Ashley, E. A., Hansen, T., Knowles, J. W.
2022
- **Ultrarapid Nanopore Genome Sequencing in a Critical Care Setting.** *The New England journal of medicine*
Gorzynski, J. E., Goenka, S. D., Shafin, K., Jensen, T. D., Fisk, D. G., Grove, M. E., Spiteri, E., Pesout, T., Monlong, J., Baid, G., Bernstein, J. A., Ceresnak, S., Chang, et al
2022
- **The Clinical Genome Resource (ClinGen) Familial Hypercholesterolemia Variant Curation Expert Panel consensus guidelines for LDLR variant classification.** *Genetics in medicine : official journal of the American College of Medical Genetics*
Chora, J. R., Iacocca, M. A., Tichy, L., Wand, H., Kurtz, C. L., Zimmermann, H., Leon, A., Williams, M., Humphries, S. E., Hooper, A. J., Trinder, M., Brunham, L. R., Costa Pereira, et al
1800
- **Signaling defects associated with insulin resistance in non-diabetic and diabetic individuals and modification by sex.** *The Journal of clinical investigation*
Haider, N., Lebastchi, J., Jayavelu, A. K., Batista, T. M., Pan, H., Dreyfuss, J. M., Carcamo-Orive, I., Knowles, J. W., Mann, M., Kahn, C. R.
2021
- **Statins Are Associated With Increased Insulin Resistance and Secretion.** *Arteriosclerosis, thrombosis, and vascular biology*
Abbasi, F., Lamendola, C., Harris, C. S., Harris, V., Tsai, M., Tripathi, P., Abbas, F., Reaven, G., Reaven, P., Snyder, M. P., Kim, S. H., Knowles, J. W.
2021: ATVB AHA121316159
- **Genetics of Type 2 Diabetes: Opportunities for Precision Medicine: JACC Focus Seminar.** *Journal of the American College of Cardiology*
Kim, D. S., Gloyd, A. L., Knowles, J. W.
2021; 78 (5): 496-512
- **Diverse Racial/Ethnic Group Underreporting and Underrepresentation in High-Impact Cholesterol Treatment Trials.** *Circulation*
Sarraju, A., Valencia, A., Knowles, J. W., Maron, D. J., Rodriguez, F.
2021; 143 (24): 2409-2411
- **Health disparities in cardiometabolic risk among Black and Hispanic youth in the United States.** *American journal of preventive cardiology*
Katz, S. F., Rodriguez, F., Knowles, J. W.
2021; 6: 100175
- **Generation of two heterozygous MYBPC3 mutation-carrying human iPSC lines, SCVi001-A and SCVi002-A, for modeling hypertrophic cardiomyopathy.** *Stem cell research*
Liu, L., Shenoy, S. P., Jahng, J. W., Liu, Y., Knowles, J. W., Zhuge, Y., Wu, J. C.
2021; 53: 102279
- **Identification of rare and common regulatory variants in pluripotent cells using population-scale transcriptomics.** *Nature genetics*
Bonder, M. J., Smail, C., Gloudemans, M. J., Fresard, L., Jakubosky, D., D'Antonio, M., Li, X., Ferraro, N. M., Carcamo-Orive, I., Mirauta, B., Seaton, D. D., Cai, N., Vakili, et al
2021
- **Validation of an Integrated Risk Tool, Including Polygenic Risk Score, for Atherosclerotic Cardiovascular Disease in Multiple Ethnicities and Ancestries.** *The American journal of cardiology*
Weale, M. E., Riveros-Mckay, F., Selzam, S., Seth, P., Moore, R., Tarran, W. A., Gradovich, E., Giner-Delgado, C., Palmer, D., Wells, D., Saffari, A., Sivley, R. M., Lachapelle, et al
2021
- **RECOMMENDATIONS FOR LDLR VARIANT INTERPRETATION BY THE CLINGEN'S FAMILIAL HYPERCHOLESTEROLEMIA EXPERT PANEL**

- Chora, J., Iacocca, M., Tichy, L., Wand, H., Kurtz, L. C., Zimmermann, H., Meredith, A., Williams, M., Humphries, S. E., Hooper, A. J., Brunham, L., Pereira, A., Chen, et al
LIPPINCOTT WILLIAMS & WILKINS.2021
- **The need for polygenic score reporting standards in evidence-based practice: lipid genetics use case.** *Current opinion in lipidology*
Wand, H. n., Knowles, J. W., Clarke, S. L.
2021
 - **An integrated approach to identify environmental modulators of genetic risk factors for complex traits.** *American journal of human genetics*
Balliu, B., Carcamo-Orive, I., Gloudemans, M. J., Nachun, D. C., Durrant, M. G., Gazal, S., Park, C. Y., Knowles, D. A., Wabitsch, M., Quertermous, T., Knowles, J. W., Montgomery, S. B.
2021
 - **Isthmin-1 is an adipokine that promotes glucose uptake and improves glucose tolerance and hepatic steatosis.** *Cell metabolism*
Jiang, Z., Zhao, M., Voilquin, L., Jung, Y., Aikio, M. A., Sahai, T., Dou, F. Y., Roche, A. M., Carcamo-Orive, I., Knowles, J. W., Wabitsch, M., Appel, E. A., Maikawa, et al
2021
 - **Predictive network modeling in human induced pluripotent stem cells identifies key driver genes for insulin responsiveness.** *PLoS computational biology*
Carcamo-Orive, I., Henrion, M. Y., Zhu, K., Beckmann, N. D., Cundiff, P., Moein, S., Zhang, Z., Alamprese, M., D'Souza, S. L., Wabitsch, M., Schadt, E. E., Quertermous, T., Knowles, et al
2020; 16 (12): e1008491
 - **SPECIFICATION OF ACMG/AMP GUIDELINES FOR STANDARDIZED VARIANT INTERPRETATION IN FAMILIAL HYPERCHOLESTEROLEMIA: ON BEHALF OF THE CLINGEN FH VARIANT CURATION EXPERT PANEL**
Iacocca, M. A., Chora, J. R., Freiburger, T., Carrie, A., Sijbrands, E. J., Wand, H., Williams, M., Zimmermann, H., Leon, A., Kurtz, C. L., Tichy, L., Alves, A. C., Wang, et al
ELSEVIER IRELAND LTD.2020: E5
 - **RNAi inhibition of angiotensin-like protein 3 (ANGPTL3) with ARO-ANG3 mimics the lipid and lipoprotein profile of familial combined hypolipidemia**
Watts, G. F., Schwabe, C., Scott, R., Gladding, P., Sullivan, D., Baker, J., Clifton, P., Hamilton, J., Given, B., San Martin, J., Melquist, S., Knowles, J. W., Goldberg, et al
OXFORD UNIV PRESS.2020: 3331
 - **RNA interference targeting apolipoprotein C-III with ARO-APOC3 in healthy volunteers mimics lipid and lipoprotein findings seen in subjects with inherited apolipoprotein C-III deficiency**
Schwabe, C., Scott, R., Sullivan, D., Baker, J., Clifton, P., Hamilton, J., Given, B., San Martin, J., Melquist, S., Watts, G. F., Goldberg, Knowles, J. W., Hegele, R., et al
OXFORD UNIV PRESS.2020: 3330
 - **Children with Heterozygous Familial Hypercholesterolemia in the United States: Data from the CASCADE FH Registry.** *The Journal of pediatrics*
de Ferranti, S. D., Shrader, P., Linton, M. F., Knowles, J. W., Hudgins, L. C., Benuck, I., Kindt, I., O'Brien, E. C., Peterson, A. L., Ahmad, Z. S., Clauss, S., Duell, P. B., Shapiro, et al
2020
 - **Expression of Glycolytic Enzymes in Induced Pluripotent Stem Cells, Derived Megakaryocytes, and Endothelial Cells**
Chandra, A., Vaidya, D., Chang, R., Knowles, J., Carcamo-Orive, I., Kammers, K., Martin, J., Taub, M., Hoyle, D., Gao, Y., Yanek, L., Kral, B., Faraday, et al
LIPPINCOTT WILLIAMS & WILKINS.2020
 - **Discovery and quality analysis of a comprehensive set of structural variants and short tandem repeats.** *Nature communications*
Jakubosky, D., Smith, E. N., D'Antonio, M., Jan Bonder, M., Young Greenwald, W. W., D'Antonio-Chronowska, A., Matsui, H., i2QTL Consortium, Stegle, O., Montgomery, S. B., DeBoever, C., Frazer, K. A., Bonder, M. J., et al
2020; 11 (1): 2928
 - **Properties of structural variants and short tandem repeats associated with gene expression and complex traits.** *Nature communications*
Jakubosky, D., D'Antonio, M., Bonder, M. J., Smail, C., Donovan, M. K., Young Greenwald, W. W., Matsui, H., i2QTL Consortium, D'Antonio-Chronowska, A., Stegle, O., Smith, E. N., Montgomery, S. B., DeBoever, C., et al
2020; 11 (1): 2927
 - **Insulin Resistance and Mitochondrial Dysfunction Mediated by Nat1 Deficiency**
Sangwung, P., Fathzadeh, M., Knowles, J.

AMER DIABETES ASSOC.2020

- **Gaps in Dyslipidemia Care Among Working-Aged Individuals With Employer-Sponsored Health Care.** *Journal of the American Heart Association*
Shiffman, D., Louie, J. Z., Devlin, J. J., Knowles, J. W., McPhaul, M. J.
2020; e015807
- **Delisting STAP1: The Rise and Fall of a Putative Hypercholesterolemia Gene.** *Arteriosclerosis, thrombosis, and vascular biology*
Hegele, R. A., Knowles, J. W., Horton, J. D.
2020; 40 (4): 847–49
- **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
- **FAM13A affects body fat distribution and adipocyte function.** *Nature communications*
Fathzadeh, M. n., Li, J. n., Rao, A. n., Cook, N. n., Chennamsetty, I. n., Seldin, M. n., Zhou, X. n., Sangwung, P. n., Gloude-mans, M. J., Keller, M. n., Attie, A. n., Yang, J. n., Wabitsch, et al
2020; 11 (1): 1465
- **Genomic integrity of human induced pluripotent stem cells across nine studies in the NHLBI NextGen program.** *Stem cell research*
Kanchan, K. n., Iyer, K. n., Yanek, L. R., Carcamo-Orive, I. n., Taub, M. A., Malley, C. n., Baldwin, K. n., Becker, L. C., Broeckel, U. n., Cheng, L. n., Cowan, C. n., D'Antonio, M. n., Frazer, et al
2020; 46: 101803
- **Women Living with Familial Hypercholesterolemia: Challenges and Considerations Surrounding Their Care.** *Current atherosclerosis reports*
Balla, S. n., Ekpo, E. P., Wilemon, K. A., Knowles, J. W., Rodriguez, F. n.
2020; 22 (10): 60
- **Mitochondrial dysfunction, insulin resistance and potential genetic implications.** *Endocrinology*
Sangwung, P. n., 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
- **Precision screening for familial hypercholesterolemia: a machine learning study applied to electronic health encounter data.** *The Lancet. Digital health*
Myers, K. D., Knowles, J. W., Staszak, D., Shapiro, M. D., Howard, W., Yadava, M., Zuzick, D., Williamson, L., Shah, N. H., Banda, J. M., Leader, J., Cromwell, W. C., Trautman, et al
2019; 1 (8): e393-e402
- **Precision screening for familial hypercholesterolemia: a machine learning study applied to electronic health encounter data** *LANCET DIGITAL HEALTH*
Myers, K. D., Knowles, J. W., Staszak, D., Shapiro, M. D., Howard, W., Yadava, M., Zuzick, D., Williamson, L., Shah, N. H., Banda, J. M., Leader, J., Cromwell, W. C., Trautman, et al

2019; 1 (8): E393–E402

- **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., Freiburger, 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: 23
- **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*
Sarraju, A., Knowles, J. W.
2019; 6
- **Effect of Alirocumab on Mortality After Acute Coronary Syndromes: An Analysis of the ODYSSEY OUTCOMES Randomized Clinical Trial.** *Circulation*
Steg, P. G., Szarek, M. n., Bhatt, D. L., Bittner, V. A., Brégeault, M. F., Dalby, A. J., Diaz, R. n., Edelberg, J. M., Goodman, S. G., Hanotin, C. n., Harrington, R. A., Jukema, J. W., Lecorps, et al
2019
- **Familial Hypercholesterolemia** *GENETIC CAUSES OF CARDIAC DISEASE*
Sarraju, A., Knowles, J. W., Erdmann, J., Moretti, A.
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