




Joshua W. Knowles

Associate Professor of Medicine (Cardiovascular Medicine)
Medicine - Cardiovascular Medicine

 NIH Biosketch available Online

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Cardiovascular Medicine**

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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 vitro and in vivo model systems. My clinical translational focus is on Familial Hypercholesterolemia (FH) and I was the volunteer Chief Research Advisor of the Family Heart Foundation (FHF) which is a patient-led organization dedicated to increasing awareness of FH and high Lpa (lipoprotein a), 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 using cutting-edge "big-data" approaches to identify previously undiagnosed FH patients in electronic medical records (FIND FH). I have published over 150 papers with research projects 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
- lipoprotein

ACADEMIC APPOINTMENTS

- Associate 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 Center¹, (2017- present)
- Program Director, Cardiovascular Medicine Fellowship Program, (2018- present)
- Co-Director, Translational Investigator Program, (2017- present)
- Chief Research Advisor, The Family Heart 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 Family Heart 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 GENESISIPS 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

- Orion 8, Not Recruiting
- Personal Genomics for Preventive Cardiology, Not Recruiting
- Relationship Between Insulin Resistance and Statin Induced Type 2 Diabetes, and Integrative Personal Omics Profiling, Not Recruiting

Publications

PUBLICATIONS

- **Monogenic Testing and Polygenic Risk Scores: Who, When, and How It May Shape Future Guidelines.** *Journal of the American College of Cardiology*
Agrawal, S., Wand, H., Ison, H., Knowles, J. W.
2026; 87 (19): 2564-2566
- **FastGxC: Fast and powerful context-specific eQTL mapping in bulk and single-cell data.** *Cell genomics*
Krockenberger, L., Lu, A., Thompson, M., Tucker, L. A., Liu, C., Gordon, M. G., Ramste, A., Carcamo-Orive, I., Knowles, J. W., Dahl, A., Ye, C. J., Zaitlen, N., Balliu, et al
2026: 101250
- **Zodasiran for cholesterol and triglyceride lowering in patients with hyperlipidemia: final report of phase 1 basket trial.** *Nature medicine*
Watts, G. F., Scott, R., Sullivan, D., Baker, J., Clifton, P., Hamilton, J., Given, B., Melquist, S., Zhou, R., Gaudet, D., Goldberg, I. J., Knowles, J. W., Leeper, et al
2026
- **Identifying severe hypercholesterolemia in participants of ASCVD trials: Implications for trial conduct and opportunistic screening.** *Journal of clinical lipidology*
Singh, A., John, J. S., Laffin, L., Knowles, J. W., Rodriguez, F., Skoza, W., Bruemmer, D., Cho, L., Nissen, S. E., Sarraju, A.
2026

- **Colocalization and functional analyses identify GBE1 as a gene linking muscle strength and cardiometabolic fitness.** *American journal of physiology. Endocrinology and metabolism*
Schnurr, T. M., Johnson, M. L., Jin, C., Sørensen, K. V., Kim, L., Jahng, J. W., Ramste, A., Bielczyk-Maczynska, E., Gludemans, M. J., Saliba-Gustafsson, P., Vinton, E., Jurney, P. L., Carcamo-Orive, et al
2026
- **Update on familial hypercholesterolemia: An expert clinical consensus from the National Lipid Association.** *Journal of clinical lipidology*
Ahmad, Z., Agarwala, A., Cuchel, M., Barton Duell, P., Hegele, R. A., Hudgins, L., Jamison, A., Kalra, D., Khera, A., Knowles, J. W., Kullo, I. J., Morales, A., Rothstein, et al
2026
- **Opportunistic Genomic Screening for Familial Hypercholesterolemia to Improve Low-Density Lipoprotein Cholesterol: A Randomized Clinical Trial.** *JAMA network open*
Vassy, J. L., Brunette, C. A., Yi, T., Assimes, T. L., Christensen, K. D., Knowles, J. W., Sturm, A. C., Sun, Y. V., Alexander, N., Cardellino, M. P., Harrison, A., Gerety, H. L., Pyatt, et al
2026; 9 (1): e2549664
- **Insulin Resistance and the Estimated 10-Year Risk of Atherosclerotic Cardiovascular Disease** *Metabolism*
Aldulimy, A., Abbasi, F., Lamendola, C., Knowles, J. W.
2026
- **Cardiac Allograft Vasculopathy Inhibition with AliRocumab: The CAVIAR Trial**
Fearon, W., Terada, K., Skoda, A., Luikart, H., Knowles, J., Honda, Y., Woo, C., Teuteberg, J., Khush, K.
LIPPINCOTT WILLIAMS & WILKINS.2025
- **Zodasiran, an RNAi therapeutic targeting ANGPTL3, for treating patients with homozygous familial hypercholesterolaemia (GATEWAY): an open-label, randomised, phase 2 trial.** *The lancet. Diabetes & endocrinology*
Raal, F. J., Bergeron, J., Gaudet, D., Rosenson, R. S., Sullivan, D. R., Turner, T., Hegele, R. A., Ballantyne, C. M., Knowles, J. W., Leeper, N. J., Goldberg, I. J., Zhou, R., Muhsin, et al
2025
- **Cardiac Allograft Vasculopathy Inhibition with Alirocumab: The CAVIAR Trial.** *Circulation*
Fearon, W. F., Terada, K., Takahashi, K., Skoda, A., Luikart, H. I., Lamendola, C. A., Zimmermann, F. M., Hashikata, T., Saito, K., Yoshida, A., Varr, B., Knowles, J. W., Woo, et al
2025
- **Changes in Apolipoprotein A1-Associated Proteomic Composition After Pioglitazone Treatment Versus Weight Loss.** *International journal of molecular sciences*
Parsa, S., Collier, T. S., McPhaul, M. J., Melander, O., Knowles, J. W., Rohatgi, A., Abbasi, F.
2025; 26 (21)
- **The functional landscape of coding variation in the familial hypercholesterolemia gene LDLR.** *Science (New York, N.Y.)*
Tabet, D. R., Coté, A. G., Lancaster, M. C., Weile, J., Rayhan, A., Fotiadou, I., Kishore, N., Li, R., Kuang, D., Knapp, J. J., Carrero, C. S., Taverniti, O., Axakova, et al
2025: eady7186
- **Electronic health records-based algorithms to screen for U.S. Centers for Disease Control and Prevention tier 1 genetic diseases: a scoping review.** *Journal of the American Medical Informatics Association : JAMIA*
Harris, W. R., Hernandez, M. S., Ngo, K. N., Fladger, A., Brunette, C. A., Hamarneh, S. R., Knowles, J. W., Lebo, M. S., Vassy, J. L.
2025
- **Successful Rituximab Treatment of GPIIBP1 Autoantibody-Associated Hypertriglyceridemia.** *JACC. Case reports*
Hussain, T., Horomanski, A., Jain, S., Lamendola, C., Abbasi, F., Murakami, M., Knowles, J. W.
2025; 30 (23): 104647
- **Zodasiran (ARO-ANG3), an investigational RNAi therapeutic, demonstrates profound and durable reductions in LDL-cholesterol, apolipoprotein B, and ANGPTL3 in patients with HoFH; gateway final results**
Raal, F., Bergeron, J., Gaudet, D., Rosenson, R., Sullivan, D., Turner, T., Fu, R., Muhsin, M., Hellowell, J., Hamilton, J., Hegele, R., Ballantyne, C., Knowles, et al
ELSEVIER IRELAND LTD.2025: 27

- **A functional genomic framework to elucidate novel causal metabolic dysfunction-associated fatty liver disease genes**
Gustafsson, P., Justesen, J., Ranta, A., Sharma, D., Bielczyk-Maczynska, E., Li, J., Najmi, L., Apodaka, M., Aspichueta, P., Bjorck, H., Eriksson, P., Schnurr, T., Franco-Cereceda, et al
ELSEVIER IRELAND LTD.2025
- **Lipoprotein(a) and recurrent atherosclerotic cardiovascular disease events by sex and race/ethnicity and use of LDL cholesterol lowering therapy: A cohort study from the US family heart database**
Macdougall, D., Tybjaerg-Hansen, A., Knowles, J., Stern, T., Hartsuff, B., MCGOWAN, M., Baum, S., Wilemon, K., Nordestgaard, B.
ELSEVIER IRELAND LTD.2025: 27-28
- **Cardiologists' Perceptions of Cardiogenetic Testing and Management.** *JACC. Advances*
Tang, W. H., Bui, Q. M., Cirino, A. L., Dellefave-Castillo, L., Floyd, B. J., Guerchicoff, A., Guerchicoff, M., V Khera, A., Knowles, J. W., Lafayette, K., P Landstrom, A., Ma, D. W., Morales, et al
2025; 4 (8): 101910
- **Genetics of growth rate in induced pluripotent stem cells.** *bioRxiv : the preprint server for biology*
Lee, B. N., Taylor, H. J., Cipriani, F., Narisu, N., Robertson, C. C., Swift, A. J., Sinha, N., Yan, T., Bonnycastle, L. L., Dale, N., Butt, A., Parsaud, H., Semrau, et al
2025
- **Lipoprotein(a) and recurrent atherosclerotic cardiovascular events: the US Family Heart Database.** *European heart journal*
MacDougall, D. E., Tybjaerg-Hansen, A., Knowles, J. W., Stern, T. P., Hartsuff, B. K., McGowan, M. P., Baum, S. J., Wilemon, K. A., Nordestgaard, B. G.
2025
- **Cross-sectional, interventional, and causal investigation of insulin sensitivity using plasma proteomics in diverse populations.** *Metabolism: clinical and experimental*
Kho, P. F., Wary, N., Zanetti, D., Abbasi, F., Knowles, J. W., Panyard, D. J., Watson, K. T., Stell, L., Lazzeroni, L. C., Gustafsson, S., Lind, L., Petrie, J. R., Assimes, et al
2025: 156263
- **Many Journeys Originating at the Same Source to Arrive at Solutions to the Common Problem of High Lipoprotein(a).** *Circulation. Genomic and precision medicine*
Luxama, J. W., Knowles, J. W.
2025: e005126
- **Primary Care Providers' Perspectives on Receiving Opportunistic Genomic Results from a National Study - the Million Veteran Program Return Of Actionable Results (MVP-ROAR) Study.** *Genetics in medicine : official journal of the American College of Medical Genetics*
Johannsen, A. L., Danowski, M. E., Sitter, K. E., Preys, C. L., Gerety, H. L., Brunette, C. A., Christensen, K. D., Gaziano, J. M., Knowles, J. W., Muralidhar, S., Sturm, A. C., Sun, Y. V., Whitbourne, et al
2025: 101416
- **Label-Free Detection of Lipid Accumulation in Cells Using Magnetic Levitation.** *Advanced biology*
Moncal, K. K., Najmi, L. A., Gupta, R., Ramarao, M., Knowles, J. W., Park, C. Y., Durmus, N. G.
2025: e2200142
- **Genetics of cardiometabolic disease progression.** *medRxiv : the preprint server for health sciences*
Justesen, J. M., Venkataraman, G., Tanigawa, Y., Li, R., Hastie, T., Tibshirani, R., Knowles, J. W., Rivas, M. A.
2025
- **Cross-sectional, interventional, and causal investigation of insulin sensitivity using plasma proteomics in diverse populations.** *medRxiv : the preprint server for health sciences*
Kho, P. F., Wary, N., Zanetti, D., Abbasi, F., Knowles, J. W., Panyard, D. J., Watson, K. T., Stell, L., Lazzeroni, L. C., Gustafsson, S., Lind, L., Petrie, J. R., Assimes, et al
2024
- **Hymecromone Promotes Longevity and Insulin Sensitivity in Mice.** *Cells*
Nagy, N., Czepiel, K. S., Kaber, G., Stefanovski, D., Hargil, A., Pennetzdorfer, N., Targ, R., Reghupaty, S. C., Wight, T. N., Vernon, R. B., Hull-Meichle, R. L., Marshall, P., Medina, et al
2024; 13 (20)

- **One-year real-world experience with mavacamten and its physiologic effects on obstructive hypertrophic cardiomyopathy** *FRONTIERS IN CARDIOVASCULAR MEDICINE*
Kim, D., Chu, E. L., Keamy-Minor, E. E., Paranjpe, I., Tang, W. L., O'Sullivan, J. W., Desai, Y. B., Liu, M. B., Munsey, E., Hecker, K., Cuenco, I., Kao, B., Bacolor, et al
2024; 11
- **One-year real-world experience with mavacamten and its physiologic effects on obstructive hypertrophic cardiomyopathy.** *Frontiers in cardiovascular medicine*
Kim, D. S., Chu, E. L., Keamy-Minor, E. E., Paranjpe, I. D., Tang, W. L., O'Sullivan, J. W., Desai, Y. B., Liu, M. B., Munsey, E., Hecker, K., Cuenco, I., Kao, B., Bacolor, et al
2024; 11: 1429230
- **A functional genomic framework to elucidate novel causal metabolic dysfunction-associated fatty liver disease genes.** *Hepatology (Baltimore, Md.)*
Saliba-Gustafsson, P., Justesen, J. M., Ranta, A., Sharma, D., Bielczyk-Maczynska, E., Li, J., Najmi, L. A., Apodaka, M., Aspichueta, P., Björck, H. M., Eriksson, P., Schurr, T. M., Franco-Cereceda, et al
2024
- **Loss of RREB1 reduces adipogenesis and improves insulin sensitivity in mouse and human adipocytes.** *bioRxiv : the preprint server for biology*
Yu, G. Z., Krentz, N. A., Bentley, L., Zhao, M., Paphiti, K., Sun, H., Honecker, J., Nygård, M., Dashti, H., Bai, Y., Reid, M., Thaman, S., Wabitsch, et al
2024
- **X chromosome dosage drives statin-induced dysglycemia and mitochondrial dysfunction.** *Nature communications*
Zhang, P., Munier, J. J., Wiese, C. B., Vergnes, L., Link, J. C., Abbasi, F., Ronquillo, E., Scheker, K., Muñoz, A., Kuang, Y. L., Theusch, E., Lu, M., Sanchez, et al
2024; 15 (1): 5571
- **Generation of two familial hypercholesterolemia patient-specific induced pluripotent stem cell lines harboring heterozygous mutations in the LDLR gene.** *Stem cell research*
Gao, J., Li, J., Xu, L., Yan, C. D., Knowles, J. W., Wu, J. C.
2024; 78: 103463
- **Design and Pilot Results from Million Veteran Program Return Of Actionable Genetic Results (MVP-ROAR) Study.** *American heart journal*
Vassy, J. L., Brunette, C. A., Yi, T., Harrison, A., Cardellino, M. P., Assimes, T. L., Christensen, K. D., Devineni, P., Gaziano, J. M., Gong, X., Hui, Q., Knowles, J. W., Muralidhar, et al
2024
- **Chemerin in Participants with or without Insulin Resistance and Diabetes.** *Biomedicines*
Zhao, L., Zhou, J., Abbasi, F., Fathzadeh, M., Knowles, J. W., Leung, L. L., Morser, J.
2024; 12 (4)
- **Development and utility of a clinical research informatics application for participant recruitment and workflow management for a return of results pilot trial in familial hypercholesterolemia in the Million Veteran Program.** *JAMIA open*
Brunette, C. A., Yi, T., Danowski, M. E., Cardellino, M., Harrison, A., Assimes, T. L., Knowles, J. W., Christensen, K. D., Sturm, A. C., Sun, Y. V., Hui, Q., Pyarajan, S., Shi, et al
2024; 7 (1): ooae020
- **Is it time for a paradigm shift? Inclusion of APOE on genetic dyslipidemia panels.** *Journal of genetic counseling*
Ison, H. E., Mowaswes, M., Durst, R., Leucker, T., Knowles, J. W., Brown, E. E.
2024
- **Lac-Phe mediates the effects of metformin on food intake and body weight.** *Nature metabolism*
Xiao, S., Li, V. L., Lyu, X., Chen, X., Wei, W., Abbasi, F., Knowles, J. W., Tung, A. S., Deng, S., Tiwari, G., Shi, X., Zheng, S., Farrell, et al
2024
- **Generation of two induced pluripotent stem cell lines from healthy patients of African American ancestry.** *Stem cell research*
Mullen, M., Kojic, A., Alamana, C., Canel, G., Lai, C., Knowles, J. W., Wu, J. C.
2024; 76: 103322
- **A functional genomic framework to elucidate novel causal non-alcoholic fatty liver disease genes.** *medRxiv : the preprint server for health sciences*

- Saliba-Gustafsson, P., Justesen, J. M., Ranta, A., Sharma, D., Bielczyk-Maczynska, E., Li, J., Najmi, L. A., Apodaka, M., Aspichueta, P., Björck, H. M., Eriksson, P., Franco-Cereceda, A., Gloudemans, et al
2024
- **Trends of Lipid Concentrations, Awareness, Evaluation, and Treatment in Severe Dyslipidemia in US Adults.** *Mayo Clinic proceedings*
Shetty, N. S., Gaonkar, M., Patel, N., Knowles, J. W., Natarajan, P., Arora, G., Arora, P.
2024
 - **Impact of Virtual Interviewing on Cardiovascular Fellowship Applicant Diversity: Insights From 2 Academic Programs.** *Journal of the American Heart Association*
Witting, C., Knowles, J. W., DeFaria Yeh, D., Beyene, T. J., Gummipundi, S. E., Heidenreich, P. A., Yong, C. M.
2023: e030255
 - **RNA Interference Therapy Targeting Apolipoprotein C-III in Hypertriglyceridemia.** *NEJM evidence*
Gaudet, D., Clifton, P., Sullivan, D., Baker, J., Schwabe, C., Thackwray, S., Scott, R., Hamilton, J., Given, B., Melquist, S., Zhou, R., Chang, T., San Martin, et al
2023; 2 (12): EVIDoA2200325
 - **USPSTF Recommendation on Screening for Lipid Disorders in Children and Adolescents.** *JAMA*
Wilemon, K., Knowles, J. W., Baum, S. J.
2023; 330 (20): 2024
 - **Lac-Phe mediates the anti-obesity effect of metformin.** *bioRxiv : the preprint server for biology*
Xiao, S., Li, V. L., Lyu, X., Chen, X., Wei, W., Abbasi, F., Knowles, J. W., Deng, S., Tiwari, G., Shi, X., Zheng, S., Farrell, L., Chen, et al
2023
 - **Another Use for Polygenic Risk Scores: Improving Risk Prediction for Heterozygous Familial Hypercholesterolemia.** *JACC. Advances*
Palmisano, B. T., Knowles, J. W.
2023; 2 (9): 100663
 - **Principles for Health Information Collection, Sharing, and Use: A Policy Statement From the American Heart Association** *CIRCULATION*
Spector-Bagdady, K., Aroundas, A. A., Arnaout, R., Hall, J. L., McSwain, B., Knowles, J. W., Price, W., Rawat, D. B., Riegel, B., Wang, T. Y., Wiley, K., Chung, M. K., Amer Heart Assoc Advocacy Coor
2023; 148 (13): 1061-1069
 - **RNA interference targeting ANGPTL3 for triglyceride and cholesterol lowering: phase 1 basket trial cohorts.** *Nature medicine*
Watts, G. F., Schwabe, C., Scott, R., Gladding, P. A., Sullivan, D., Baker, J., Clifton, P., Hamilton, J., Given, B., Melquist, S., Zhou, R., Chang, T., San Martin, et al
2023
 - **ARO-ANG3, AN INVESTIGATIONAL RNAI THERAPEUTIC, DECREASES SERUM LDL-CHOLESTEROL, APOLIPOPROTEIN B, AND ANGIOPOIETIN-LIKE PROTEIN 3 IN PATIENTS WITH HOMOZYGOUS FAMILIAL HYPERCHOLESTEROLAEMIA**
Raal, F., Bergeron, J., Watts, G., Gaudet, D., Sullivan, D., Turner, T., Hegele, R., Ballantyne, C., Knowles, J., Goldberg, I., Fu, R., Alagarsamy, S., Hamilton, et al
ELSEVIER IRELAND LTD.2023
 - **A single-cell CRISPRi platform for characterizing candidate genes relevant to metabolic disorders in human adipocytes.** *American journal of physiology. Cell physiology*
Bielczyk-Maczynska, E., Sharma, D., Blencowe, M., Saliba Gustafsson, P., Gloudemans, M. J., Yang, X., Carcamo-Orive, I., Wabitsch, M., Svensson, K. J., Park, C. Y., Quertermous, T., Knowles, J. W., Li, et al
2023
 - **Plasma proteomic signatures of a direct measure of insulin sensitivity in two population cohorts.** *Diabetologia*
Zanetti, D., Stell, L., Gustafsson, S., Abbasi, F., Tsao, P. S., Knowles, J. W., Zethelius, B., Ärnlöv, J., Balkau, B., Walker, M., Lazzeroni, L. C., Lind, L., Petrie, et al
2023
 - **Single-cell transcriptome dataset of human and mouse in vitro adipogenesis models.** *Scientific data*
Li, J., Jin, C., Gustafsson, S., Rao, A., Wabitsch, M., Park, C. Y., Quertermous, T., Knowles, J. W., Bielczyk-Maczynska, E.
2023; 10 (1): 387

- **Contemporary Homozygous Familial Hypercholesterolemia in the United States: Insights From the CASCADE FH Registry.** *Journal of the American Heart Association*
Cuchel, M., Lee, P. C., Hudgins, L. C., Duell, P. B., Ahmad, Z., Baum, S. J., Linton, M. F., de Ferranti, S. D., Ballantyne, C. M., Larry, J. A., Hemphill, L. C., Kindt, I., Gidding, et al
2023: e029175
- **Single-cell transcriptome dataset of human and mouse in vitro adipogenesis models.** *bioRxiv : the preprint server for biology*
Li, J., Jin, C., Gustafsson, S., Rao, A., Wabitsch, M., Park, C. Y., Quertermous, T., Bielczyk-Maczynska, E., Knowles, J. W.
2023
- **The relationship between insulin resistance and ion mobility lipoprotein fractions.** *American journal of preventive cardiology*
Rowland, C. M., Abbasi, F., Shiffman, D., Knowles, J. W., McPhaul, M. J.
2023; 13: 100457
- **G protein-coupled receptor 151 regulates glucose metabolism and hepatic gluconeogenesis.** *Nature communications*
Bielczyk-Maczynska, E., Zhao, M., Zushin, P. H., Schnurr, T. M., Kim, H. J., Li, J., Nallagatla, P., Sangwung, P., Park, C. Y., Cornn, C., Stahl, A., Svensson, K. J., Knowles, et al
2022; 13 (1): 7408
- **Analysis of Transcriptional Variability in a Large Human iPSC Library Reveals Genetic and Non-genetic Determinants of Heterogeneity (vol 20, pg 518, 2017) CELL STEM CELL**
Carcamo-Orive, I., Hoffman, G. E., Cundiff, P., Beckmann, N. D., D'Souza, S. L., Knowles, J. W., Patel, A., Hendry, C., Papatsenko, D., Abbasi, F., Reaven, G. M., Whalen, S., Lee, et al
2022; 29 (10): 1505
- **Chronic liver disease-related mortality in diabetes before and during the COVID-19 in the United States.** *Digestive and liver disease : official journal of the Italian Society of Gastroenterology and the Italian Association for the Study of the Liver*
Kim, D., Alshuwaykh, O., Dennis, B. B., Cholankeri, G., Knowles, J. W., Ahmed, A.
2022
- **Analysis of Insulin Resistance Among Children and Adolescents in Slovenia With Hypercholesterolemia After Treatment With Statins.** *JAMA network open*
Groselj, U., Sikonja, J., Mlinaric, M., Kotnik, P., Battelino, T., Knowles, J. W.
2022; 5 (9): e2231097
- **STATIN THERAPY IS NOT ASSOCIATED WITH INSULIN RESISTANCE IN CHILDREN AND ADOLESCENTS WITH FAMILIAL HYPERCHOLESTEROLAEMIA**
Groselj, U., Sikonja, J., Mlinaric, M., Kotnik, P., Battelino, T., Knowles, J. W.
ELSEVIER IRELAND LTD.2022: E173
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