

Education and Training

Education:

- 9/2005 – 6/2009 University of Washington
Bachelor of Science (Neurobiology)
Magna Cum Laude, Phi Beta Kappa
- 9/2012 – 12/2015 University of Washington School of Medicine
Doctor of Philosophy (Ph.D. in Genome Sciences)
Dissertation: “*Atheroprotective targets associated with high-density lipoprotein: phospholipid transfer protein, paraoxonase-1, and their effects on cerebrovascular disease*”
Advisor: Gail P. Jarvik, M.D., Ph.D.
Professor and Head, Medical Genetics
University of Washington
- 6/2014 – 3/2016 University of Washington School of Public Health
Master of Public Health (M.P.H. in Biostatistics)
Thesis: “*A computational pipeline for identifying copy number variation from single nucleotide polymorphism data and applications to congenital heart disease*”
Advisor: Patrick Heagerty, Ph.D.
Professor and Chair, Biostatistics
University of Washington
- 8/2009 – 5/2011 University of Michigan Medical School
3/2017 – 5/2019 Doctor of Medicine (M.D.)
Alpha Omega Alpha (AOA) Honor Medical Society
With Distinction (Top 10% of graduating class)
With Distinction in Research

Research Fellowships:

- 5/2011 – 9/2012 Sarnoff Cardiovascular Research Fellow
Preceptor: Gail P. Jarvik, M.D., Ph.D.
Professor and Head, Medical Genetics
University of Washington
- 1/2016 – 12/2016 American Heart Association Postdoctoral Fellow
Preceptor: J. William Gaynor, M.D.
Endowed Chair, Cardiothoracic Surgery
Children’s Hospital of Philadelphia

Clinical Training:

- 6/2019 – 6/2021 Resident Physician in Internal Medicine
Stanford University School of Medicine
- 7/2021 – Present Fellow Physician in Cardiovascular Medicine
Stanford University School of Medicine
- 11/2023 – Present Lead Fellow, Translational Investigator Program
Stanford University School of Medicine

Grant Support:

Current:

1L30HL170306-01 Kim-PI (Role: Principal Investigator)
National Institutes of Health Loan Repayment Program (NIH LRP)
Kim – Exercise as Medicine: Identification and Validation of Novel Cardiac Exerkines
7/2023 – 6/2025

Wu Tsai Performance Alliance Clinician-Scientist Fellow (Role: Principal Investigator)
Kim – Exercise as Medicine: Identification and Validation of Novel Cardiac Exerkines
7/2023 – 6/2025

Former:

NIH SNPG9895 Kim-PI (Role: Principal Investigator)
National Institutes of Health Loan Repayment Program (NIH LRP)
Kim – Identification of genetic predictors of survival in children with isolated congenital heart disease
6/2016 – 6/2018

AHA 16POST27250048 Kim-PI (Role: Principal Investigator)
American Heart Association Western States Affiliate Postdoctoral Fellowship
Kim - Identification of genetic predictors of survival and pathophysiologic mechanisms in congenital heart disease patients
1/2016 – 12/2016

F31 MH101905 Kim-PI (Role: Principal Investigator)
Ruth L. Kirschstein National Research Service Award for Predoctoral Fellows
Kim – Pharmacogenomics of serotonin-specific reuptake inhibitors
9/2013 – 9/2015

T32 HL007312-36A1 Schwartz-PI (Role: Trainee)
Experimental Pathology of Cardiovascular Disease
9/2015 – 12/2015

T32 HG000035 Swanson-PI (Role: Trainee)
Interdisciplinary Training in Genome Sciences
9/2012 – 9/2013

T35 HL7690-28 Margolis-PI (Role: Trainee)
University of Michigan Summer Biomedical Research Training Program
5/2010 – 8/2010

Academic and Professional Honors:

Honors:

2005 – Advanced Placement (AP) Scholar with Honor
2005 – University of Washington Undergraduate Scholar Award
2008 – Phi Beta Kappa Honors Society
2008 – University of Washington Undergraduate Travel Scholarship

2009 – *Magna Cum Laude*, College of Arts and Sciences, University of Washington
2010 – University of Michigan Award of Research Excellence
2011 – Alpha Omega Alpha (AOA) Research Fellowship (*declined for other funding*)
2011 – Sarnoff Cardiovascular Research Fellowship for Medical Students
2013 – University of Washington Graduate School Travel Award
2014 – J. Maxwell Chamberlain Memorial Paper in Congenital Heart Surgery (Plenary)
2015 – Invited Lecture: High Science HDL Forum - Translational Medicine Academy
2018 – U. of Michigan Clinical Comprehensive Assessment (CCA) Commendation
2018 – U. of Michigan Dean's Commendation for Excellence in Clinical Skills
2018 – Alpha Omega Alpha (AOA) Honor Medical Society
2019 – U. of Michigan Graduation with Distinction (Top 10% of graduating class)
2019 – U. of Michigan Dean's Award for Research Excellence
2019 – U. of Michigan Graduation with Distinction in Research
2019 – U. of Michigan Department of Internal Medicine Senior Scholarship
2023 – Stanford University Edwin Alderman Award for Excellence in Clinical Research

Research Fellowships:

2006 – Mary Gates Research Fellowship for Undergraduates
2006 – National Science Foundation Research Experience for Undergraduates (NSF REU)
2007 – Washington Research Foundation Research Fellowship for Undergraduates
2008 – NASA Space Grant
2010 – University of Michigan Summer Biomedical Research Program Scholarship
2011 – Sarnoff Cardiovascular Research Fellowship for Medical Students
2013 – Ruth Kirschstein National Research Fellowship for Predoctoral Fellows (F31)
2016 – AHA Western States Affiliate Postdoctoral Fellowship
2016 – National Institutes of Health Loan Repayment Program (NIH LRP)
2023 – Wu Tsai Human Performance Alliance Clinician Scientist Award
2023 – National Institutes of Health Loan Repayment Program (NIH LRP)

Leadership Fellowships:

2007 – Mary Gates Leadership Fellowship for Undergraduates
2008 – Mary Gates Leadership Fellowship for Undergraduates

Memberships in Professional Societies:

2009 – American Medical Association (AMA)
2011 – American Heart Association (AHA)
2011 – American Society of Human Genetics (ASHG)
2012 – American Society of Biochemistry and Molecular Biology (ASBMB)
2014 – Society of Thoracic Surgeons (STS)
2016 – American Statistical Society (ASA)
2021 – American College of Cardiology (ACC)

Ad Hoc Journal Peer Review

American Journal of Medicine
Arteriosclerosis, Thrombosis, and Vascular Biology
BMC Cardiovascular Disorders
BMC Medical Genetics
Cardiovascular Diabetology
Circulation: Cardiovascular Quality and Outcomes

Circulation: Genomic and Precision Medicine
Chemosphere
Journal of the American College of Cardiology
Journal of Clinical Lipidology
Journal of Lipid Research
Stroke

Medical Licensure:

Physicians and Surgeons License (A 177669), Medical Board of California
4/12/2022 – 4/30/2024
Board Certification in Internal Medicine, 2022

Teaching Activities:

2003 – 2005 Han's Martial Arts Academy, Taekwondo Instructor, Seattle, WA
2007 Biology 100, Teaching Assistant, University of Washington
2015 Genome 361, Graduate Instructor, University of Washington

Community Service:

2008 – 2009 *Excellence Through Taekwondo*

Development of life skills and personal qualities (discipline, self respect, respect for others) in fatherless youth in the greater Seattle area through rigorous training in the Korean martial art, Taekwondo. This work was funded by Mary Gates Leadership Fellowships for two consecutive terms, with competitive application and renewal processes.

Bibliography:

Invited Oral Presentations:

1. "Elephants and Adolescence: Leadership Through Martial Arts," The 1st Annual Celebration of Leadership. University of Washington, Seattle, WA. May, 2009.
2. "Breastmilk HIV-1 transmission among Kenyan women receiving antenatal zidovudine," The 2009 University of Washington Undergraduate Research Symposium, Seattle, WA. May 2009.
3. "Vascular Endothelial Growth Factor And Superoxide Dismutase Gene Variants Have An Additive Adverse Effect On Covariate-Adjusted Transplant Free Survival After Surgery For Isolated Congenital Heart Disease," the J. Maxwell Chamberlain Memorial Paper in Congenital Heart Disease. The 50th Annual Meeting of the Society of Thoracic Surgery, Orlando, FL. January 2014.
4. "Burden Of Potentially Pathologic Copy Number Variants Is Higher In Children With Isolated Congenital Heart Disease And Significantly Impairs Covariate-Adjusted Long-Term Survival," The 95th Annual Meeting of the American Association for Thoracic Surgery, Seattle, WA, April 2015.

5. "Phospholipid transfer protein and paraoxonase-1: targets for atheroprotection," The High Science HDL Forum by the Translational Medicine Academy, Orlando, FL, November 2015.
6. "Autosomal Dominant Mannose-Binding Lectin (MBL) Deficiency is Associated with Worse Neurodevelopmental Outcomes After Cardiac Surgery in Infants," the Centennial Meeting of the American Association for Thoracic Surgery, Boston, MA, May 2017.

Peer-Reviewed Publications (Consortia Papers Excluded), Chronologic:

1. **Kim DS**, Burt AA, Ranchalis JE, Richter RJ, Marshall JK, Eintracht JF, Rosenthal EA, Furlong CE, Jarvik GP. Additional Common Polymorphisms in the PON Gene Cluster Predict PON1 Activity but Not Vascular Disease. *J Lipids*. 2012;2012:476316. doi: 10.1155/2012/476316. PMID: 22685667.
2. **Kim DS**, Stanaway IB, Rajagopalan R, Bernbaum JC, Solot CB, Burnham N, Zackai EH, Clancy RR, Nicolson SC, Gerdes M, Nickerson DA, Hakonarson H, Gaynor JW, Jarvik GP. Results of genome-wide analyses on neurodevelopmental phenotypes at four-year follow-up following cardiac surgery in infancy. *PLoS One*. 2012;7(9):e45936. doi: 10.1371/journal.pone.0045936. PMID: 23049896.
3. **Kim DS**, Burt AA, Ranchalis JE, Richter RJ, Marshall JK, Nakayama KS, Jarvik ER, Eintracht JF, Rosenthal EA, Furlong CE, Jarvik GP. Dietary cholesterol increases paraoxonase 1 enzyme activity. *J Lipid Res*. 2012 Nov;53(11):2450-8. doi: 10.1194/jlr.P030601. PMID: 22896672.
4. **Kim DS**, Burt AA, Crosslin DR, Robertson PD, Ranchalis JE, Boyko EJ, Nickerson DA, Furlong CE, Jarvik GP. Novel common and rare genetic determinants of paraoxonase activity: FTO, SERPINA12, and ITGAL. *J Lipid Res*. 2013 Feb;54(2):552-60. doi: 10.1194/jlr.P033266. PMID: 23160181.
5. **Kim DS**, Burt AA, Ranchalis JE, Jarvik ER, Rosenthal EA, Hatsukami TS, Furlong CE, Jarvik GP. Novel gene-by-environment interactions: APOB and NPC1L1 variants affect the relationship between dietary and total plasma cholesterol. *J Lipid Res*. 2013 May;54(5):1512-20. doi: 10.1194/jlr.P035238. PMID: 23482652.
6. Gaynor JW, Jarvik GP, Gerdes M, **Kim DS**, Rajagopalan R, Bernbaum J, Wernovsky G, Nicolson SC, Spray TL, Clancy RR. Postoperative electroencephalographic seizures are associated with deficits in executive function and social behaviors at 4 years of age following cardiac surgery in infancy. *J Thorac Cardiovasc Surg*. 2013 Jul;146(1):132-7. doi: 10.1016/j.jtcvs.2013.04.002. PMID: 23768805.
7. **Kim DS**, Marsillach J, Furlong CE, Jarvik GP. Pharmacogenetics of paraoxonase activity: elucidating the role of high-density lipoprotein in disease. *Pharmacogenomics*. 2013 Sep;14(12):1495-515. doi: 10.2217/pgs.13.147. PMID: 24024900.
8. Dorschner MO, Amendola LM, Turner EH, Robertson PD, Shirts BH, Gallego CJ, Bennett RL, Jones KL, Tokita MJ, Bennett JT, Kim JH, Rosenthal EA, **Kim DS**; National Heart, Lung, and Blood Institute Grand Opportunity Exome Sequencing Project, Tabor HK, Bamshad MJ, Motulsky AG, Scott CR, Pritchard CC, Walsh T, Burke W, Raskind WH, Byers P, Hisama FM, Nickerson DA, Jarvik GP. Actionable, pathogenic incidental

- findings in 1,000 participants' exomes. *Am J Hum Genet.* 2013 Oct 3;93(4):631-40. doi: 10.1016/j.ajhg.2013.08.006. PMID: 24055113.
9. **Kim DS**, Maden SK, Burt AA, Ranchalis JE, Furlong CE, Jarvik GP. Dietary fatty acid intake is associated with paraoxonase 1 activity in a cohort-based analysis of 1,548 subjects. *Lipids Health Dis.* 2013 Dec 12;12:183. doi: 10.1186/1476-511X-12-183. PMID: 24330840.
 10. Tragante V, Barnes MR, Ganesh SK, Lanktree MB, Guo W, Franceschini N, Smith EN, Johnson T, Holmes MV, Padmanabhan S, Karczewski KJ, Almoguera B, Barnard J, Baumert J, Chang YP, Elbers CC, Farrall M, Fischer ME, Gaunt TR, Gho JM, Gieger C, Goel A, Gong Y, Isaacs A, Kleber ME, Mateo Leach I, McDonough CW, Meijis MF, Melander O, Nelson CP, Nolte IM, Pankratz N, Price TS, Shaffer J, Shah S, Tomaszewski M, van der Most PJ, Van Iperen EP, Vonk JM, Witkowska K, Wong CO, Zhang L, Beitelshes AL, Berenson GS, Bhatt DL, Brown M, Burt A, Cooper-DeHoff RM, Connell JM, Cruickshanks KJ, Curtis SP, Davey-Smith G, Delles C, Gansevoort RT, Guo X, Haiqing S, Hastie CE, Hofker MH, Hovingh GK, **Kim DS**, Kirkland SA, Klein BE, Klein R, Li YR, Maiwald S, Newton-Cheh C, O'Brien ET, Onland-Moret NC, Palmas W, Parsa A, Penninx BW, Pettinger M, Vasani RS, Ranchalis JE, M Ridker P, Rose LM, Sever P, Shimbo D, Steele L, Stolk RP, Thorand B, Trip MD, van Duijn CM, Verschuren WM, Wijmenga C, Wyatt S, Young JH, Zwinderman AH, Bezzina CR, Boerwinkle E, Casas JP, Caulfield MJ, Chakravarti A, Chasman DI, Davidson KW, Doevendans PA, Dominiczak AF, FitzGerald GA, Gums JG, Fornage M, Hakonarson H, Halder I, Hillege HL, Illig T, Jarvik GP, Johnson JA, Kastelein JJ, Koenig W, Kumari M, März W, Murray SS, O'Connell JR, Oldehinkel AJ, Pankow JS, Rader DJ, Redline S, Reilly MP, Schadt EE, Kottke-Marchant K, Snieder H, Snyder M, Stanton AV, Tobin MD, Uitterlinden AG, van der Harst P, van der Schouw YT, Samani NJ, Watkins H, Johnson AD, Reiner AP, Zhu X, de Bakker PI, Levy D, Asselbergs FW, Munroe PB, Keating BJ. Gene-centric meta-analysis in 87,736 individuals of European ancestry identifies multiple blood-pressure-related loci. *Am J Hum Genet.* 2014 Mar 6;94(3):349-60. doi: 10.1016/j.ajhg.2013.12.016. PMID: 24560520.
 11. **Kim DS**, Crosslin DR, Auer PL, Suzuki SM, Marsillach J, Burt AA, Gordon AS, Meschia JF, Nalls MA, Worrall BB, Longstreth WT Jr, Gottesman RF, Furlong CE, Peters U, Rich SS, Nickerson DA, Jarvik GP; on behalf of the NHLBI Exome Sequencing Project. Rare coding variation in paraoxonase-1 is associated with ischemic stroke in the NHLBI Exome Sequencing Project. *J Lipid Res.* 2014 Apr 7;55(6):1173-1178. PMID: 24711634.
 12. **Kim DS**, Kim JH, Burt AA, Crosslin DR, Burnham N, McDonald-McGinn DM, Zackai EH, Nicolson SC, Spray TL, Stanaway IB, Nickerson DA, Russell MW, Hakonarson H, Gaynor JW, Jarvik GP. Patient genotypes impact survival after surgery for isolated congenital heart disease. *Ann Thorac Surg.* 2014 Jul;98(1):104-11. doi: 10.1016/j.athoracsur.2014.03.017. PMID: 24811984.
 13. **Kim DS**, Burt AA, Rosenthal EA, Ranchalis JE, Eintracht JF, Hatsukami TS, Furlong CE, Marcovina S, Albers JJ, Jarvik GP. HDL-3 is a superior predictor of carotid artery disease in a case-control cohort of 1725 participants. *J Am Heart Assoc.* 2014 Jun 25;3(3):e000902. doi: 10.1161/JAHA.114.000902. PMID: 24965026.

14. Rasmussen-Torvik LJ, Stallings SC, Gordon AS, Almoguera B, Basford MA, Bielinski SJ, Brautbar A, Brilliant M, Carrell DS, Connolly J, Crosslin DR, Doheny KF, Gallego CJ, Gottesman O, **Kim DS**, Leppig KA, Li R, Lin S, Manzi S, Mejia AR, Pacheco JA, Pan V, Pathak J, Perry CL, Peterson JF, Prows CA, Ralston J, Rasmussen LV, Ritchie MD, Sadhasivam S, Scott SA, Smith M, Vega A, Vinks AA, Volpi S, Wolf WA, Bottinger E, Chisholm RL, Chute CG, Haines JL, Harley JB, Keating B, Holm IA, Kullo IJ, Jarvik GP, Larson EB, Manolio T, McCarty CA, Nickerson DA, Scherer SE, Williams MS, Roden DM, Denny JC. Design and Anticipated Outcomes of the eMERGE-PGx Project: A Multi-Center Pilot for Pre-Emptive Pharmacogenomics in Electronic Health Record Systems. *Clin Pharmacol Ther.* 2014 Jun 24. doi: 10.1038/clpt.2014.137. PMID: 24960519.
15. Gaynor JW, **Kim DS**, Arrington CB, Atz AM, Bellinger DC, Burt AA, Ghanayem NS, Jacobs JP, Lee TM, Lewis AB, Mahle WT, Marino BS, Miller SG, Newburger JW, Pizarro C, Ravishankar C, Santani AB, Wilder NS, Jarvik GP, Mital S, Russell MW. Validation of Association of the Apo-lipoprotein E (APOE) ϵ 2 Allele with Neurodevelopmental Dysfunction after Cardiac Surgery in Neonates and Infants. *J Thorac Cardiovasc Surg.* 2014 Aug 1; 148(6):2560-2568. pii: S0022-5223(14)01024-1. doi: 10.1016/j.jtcvs.2014.07.052. PMID: 25282659.
16. **Kim DS**, Smith JA, Bielak LF, Wu CY, Sun YV, Sheedy PF, Turner ST, Peyser PA, Kardia S. The relationship between diastolic blood pressure and coronary artery calcification is dependent on single nucleotide polymorphisms on chromosome 9p21.3. *BMC Med Genet.* 2014 Sep 4;15(1):89. PMID: 25185447.
17. Hutchins PM, Ronsein GF, Monette IS, Pmair N, Wimberger J, He Y, Anantharamaiah GM, **Kim DS**, Ranchalis JE, Jarvik GP, Vaisar T, Heinecke JW. Quantification of HDL Particle Concentration by Calibrated Ion Mobility Analysis. *Clin Chem.* 2014 Nov;60(11):1393-401. doi: 10.1373/clinchem.2014.228114. PMID: 25225166.
18. **Kim DS**, Burt AA, Ranchalis JE, Jarvik LE, Eintracht JF, Furlong CE, Jarvik GP. Effects of dietary components on high-density lipoprotein measures in a cohort of 1,566 participants. *Nutr Metab (Lond).* 2014 Sep 15;11(1):44. doi: 10.1186/1743-7075-11-44. eCollection 2014. PMID: 25264450.
19. Crosslin DR, Tromp G, Burt A, **Kim DS**, Verma SS, Lucas AM, Bradford Y, Crawford DC, Armasu SM, Heit JA, Hayes MG, Kuivaniemi H, Ritchie MD, Jarvik GP, de Andrade M; electronic Medical Records and Genomics (eMERGE) Network. Controlling for population structure and genotyping platform bias in the eMERGE multi-institutional biobank linked to electronic health records. *Front Genet.* 2014 Nov 4;5:352. doi: 10.3389/fgene.2014.00352. eCollection 2014. PMID: 25414722.
20. **Kim DS**, Hutchins PM, Jarvik GP. The HDL particle: frontiers for new discovery in cardioprotection. *Clinical Laboratory International.* Dec 2014:16–20.
21. Crosslin DR, Carrell DS, Burt A, **Kim DS**, Underwood JG, Hanna DS, Comstock BA, Baldwin E, de Andrade M, Kullo IJ, Tromp G, Kuivaniemi H, Borthwick KM, McCarty CA, Peissig PL, Doheny KF, Pugh E, Kho A, Pacheco J, Hayes MG, Ritchie MD, Verma SS, Armstrong G, Stallings S, Denny JC, Carroll RJ, Crawford DC, Crane PK, Mukherjee S, Bottinger E, Li R, Keating B, Mirel DB, Carlson CS, Harley JB, Larson EB, Jarvik GP.

- Genetic variation in the HLA region is associated with susceptibility to herpes zoster. *Genes and Immunity*, 2015 Jan-Feb;16(1):1-7. doi: 10.1038/gene.2014.51. PMID: 25414722.
22. Ronsein GE, Pamir N, von Haller PD, **Kim DS**, Oda MN, Jarvik GP, Vaisar T, Heinecke JW. Parallel reaction monitoring (PRM) and selected reaction monitoring (SRM) exhibit comparable linearity, dynamic range and precision for targeted quantitative HDL proteomics. *J Proteomics*. 2015 Jan 15;113:388-99. doi: 10.1016/j.jprot.2014.10.017. PMID: 25449833.
23. Schick UM, Auer PL, Bis JC, Lin H, Wei P, Pankratz N, Lange LA, Brody J, Stitzel NO, **Kim DS**, Carlson CS, Fornage M, Haessler J, Hsu L, Jackson RD, Kooperberg C, Leal SM, Psaty BM, Boerwinkle E, Tracy R, Ardissino D, Shah S, Willer C, Loos R, Melander O, McPherson R, Hovingh K, Reilly M, Watkins H, Girelli D, Fontanillas P, Chasman DI, Gabriel SB, Gibbs R, Nickerson DA, Kathiresan S, Peters U, Dupuis J, Wilson JG, Rich SS, Morrison AC, Benjamin EJ, Gross MD, Reiner AP; on Behalf of the Cohorts for Heart and Aging Research in Genomic Epidemiology and the National Heart, Lung, and Blood Institute GO Exome Sequencing Project. Association of exome sequences with plasma C-reactive protein levels in 9000 participants. *Hum Mol Genet*. 2015 Jan 15;24(2):559-71. doi: 10.1093/hmg/ddu450. PMID: 25187575.
24. Amendola LM, Dorschner MO, Robertson PD, Salama JS, Hart R, Shirts BH, Murray ML, Tokita MJ, Gallego CJ, **Kim DS**, Bennett JT, Crosslin DR, Ranchalis J, Jones KL, Rosenthal EA, Jarvik ER, Itsara A, Turner EH, Herman DS, Schleit J, Burt A, Jamal SM, Abrudan JL, Johnson AD, Conlin LK, Dulik MC, Santani A, Metterville DR, Kelly M, Foreman AKM, Lee K, Taylor KD, Guo X, Crooks K, Kiedrowski LA, Raffel LJ, Gordon O, Machini K, Desnick RJ, Biesecker LG, Lubitz SA, Mulchandani S, Cooper GM, Joffe S, Richards CS, Yang Y, Rotter JI, Rich SS, O'Donnell CJ, Berg JS, Spinner NB, Evans JP, Fullerton SM, Leppig KA, Bennett RL, Bird T, Sybert VP, Grady WM, Tabor HK, Kim JH, Bamshad MJ, Wilfond B, Motulsky AG, Scott CR, Pritchard CC, Walsh TD, Burke W, Raskind WH, Byers P, Hisama FM, Rehm H, Nickerson DA, Jarvik GP. Actionable exomic incidental findings in 6503 participants: challenges of variant classification. *Genome Res*. 2015 Mar;25(3):305-15. doi: 10.1101/gr.183483.114. PMID: 25637381.
25. Auer PL, Nalls M, Meschia JF, Worrall BB, Longstreth WT Jr, Seshadri S, Kooperberg C, Burger KM, Carlson CS, Carty CL, Chen WM, Cupples LA, DeStefano AL, Fornage M, Hardy J, Hsu L, Jackson RD, Jarvik GP, **Kim DS**, Lakshminarayan K, Lange LA, Manichaikul A, Quinlan AR, Singleton AB, Thornton TA, Nickerson DA, Peters U, Rich SS; National Heart, Lung, and Blood Institute Exome Sequencing Project. Rare and Coding Region Genetic Variants Associated With Risk of Ischemic Stroke: The NHLBI Exome Sequence Project. *JAMA Neurol*. 2015 Jul;72(7):781-8. doi: 10.1001/jamaneurol.2015.0582. PMID:25961151.
26. **Kim DS**, Burt AA, Ranchalis JE, Vuletic S, Vaisar T, Li WF, Rosenthal EA, Dong W, Eintracht JF, Motulsky AG, Brunzell JD, Albers JJ, Furlong CE, Jarvik GP. Plasma phospholipid transfer protein (PLTP) activity inversely correlates with carotid artery disease: Effects of paraoxonase 1 enzyme activity and genetic variants on PLTP activity. *J Lipid Res*. 2015 Jul;56(7):1351-62. doi: 10.1194/jlr.P058032. PMID: 26009633.

27. **Kim DS**, Kim JH, Burt AA, Crosslin DR, Burnham N, Kim CE, McDonald-McGinn DM, Zackai EH, Nicolson SC, Spray TL, Stanaway IB, Nickerson DA, Heagerty PJ, Hakonarson H, Jarvik GP, Gaynor JW. Burden of potentially pathologic copy number variants is higher in children with isolated congenital heart disease and significantly impairs covariate-adjusted transplant-free survival. *J Thorac Cardiovasc Surg.* 2015. 2016 Apr;151(4):1147-51.e4. doi: 10.1016/j.jtcvs.2015.09.136. PMID: 26704054.
28. **Kim DS**, Li YK, Bell GA, Burt AA, Vaisar T, Hutchins PM, Furlong CE, Otvos JD, Polak JF, Arnan MK, Kaufman JD, McClelland RL, Longstreth WT Jr, Jarvik GP. Concentration of Smaller High-Density Lipoprotein Particle (HDL-P) Is Inversely Correlated With Carotid Intima Media Thickening After Confounder Adjustment: The Multi Ethnic Study of Atherosclerosis (MESA). *J Am Heart Assoc.* 2016 May 20;5(5). pii: e002977. doi: 10.1161/JAHA.115.002977. PMID: 27207961.
29. Rosenthal EA, Makaryan V, Burt AA, Crosslin DR, **Kim DS**, Smith JD, Nickerson DA, Reiner AP, Rich SS, Jackson RD, Ganesh SK, Polfus LM, Qi L, Dale DC; University of Washington, Center for Mendelian Genomics, Jarvik GP. Association Between Absolute Neutrophil Count and Variation at TCIRG1: The NHLBI Exome Sequencing Project. *Genet Epidemiol.* 2016 Sep;40(6):470-4. doi: 10.1002/gepi.21976. PMID: 27229898.
30. Gaal A, Bailey B, Patel Y, Smiley N, Dodson T, **Kim D**, Dillon J. Limiting Antibiotics When Managing Mandible Fractures May Not Increase Infection Risk. *J Oral Maxillofac Surg.* 2016 Oct;74(10):2008-18. doi: 10.1016/j.joms.2016.05.019. PMID: 27317592.
31. **Kim DS**, Burt AA, Ranchalis JE, Wilmot B, Smith JD, Patterson KE, Coe BP, Li YK, Bamshad MJ, Nikolas M, Eichler EE, Swanson JM, Nigg JT, Nickerson DA, Jarvik GP on behalf of the University of Washington Center for Mendelian Genomics. Sequencing of sporadic Attention-Deficit Hyperactivity Disorder (ADHD) identifies novel and potentially pathogenic de novo variants and excludes overlap with genes associated with autism spectrum disorder. *Am J Med Genet B Neuropsychiatr Genet.* 2017 Jun;174(4):381-389. doi: 10.1002/ajmg.b.32527. PMID: 28332277
32. **Kim DS**, Jackson AU, Li YK, Stringham HM, FinMetSeq Investigators, Kuusisto J, Kangas AJ, Soininen P, Ala-Korpela M, Burant CF, Salomaa V, Boehnke M, Laakso M, Speliotes EK. Novel association of TM6SF2 rs58542926 genotype with increased serum tyrosine levels and decreased apoB-100 particles in Finns. *J Lipid Res.* 2017 Jul;58(7):1471-1481. doi: 10.1194/jlr.P076034. PMID: 28539357.
33. Holzinger ER, Verma SS, Moore CB, Hall M, De R, Gilbert-Diamond D, Lanktree MB, Pankratz N, Amuzu A, Burt A, Dale C, Dudek S, Furlong CE, Gaunt TR, **Kim DS**, Riess H, Sivapalaratnam S, Tragante V, van Iperen EPA, Brautbar A, Carrell DS, Crosslin DR, Jarvik GP, Kuivaniemi H, Kullo IJ, Larson EB, Rasmussen-Torvik LJ, Tromp G, Baumert J, Cruickshanks KJ, Farrall M, Hingorani AD, Hovingh GK, Kleber ME, Klein BE, Klein R, Koenig W, Lange LA, März W, North KE, Charlotte Onland-Moret N, Reiner AP, Talmud PJ, van der Schouw YT, Wilson JG, Kivimaki M, Kumari M, Moore JH, Drenos F, Asselbergs FW, Keating BJ, Ritchie MD. Discovery and replication of SNP-SNP interactions for quantitative lipid traits in over 60,000 individuals. *BioData Min.* 2017 Jul 24;10:25. doi: 10.1186/s13040-017-0145-5. eCollection 2017. PMID: 28770004.

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