

REFERENCES

- Ahmad, S., Fatima, S. S., Rukh, G., & Smith, C. E. (2019). Gene Lifestyle interactions with relation to obesity, cardiometabolic, and cardiovascular traits among South Asians. *Frontiers in endocrinology*, *10*, 221.
- Al-Bustan, S. A., Al-Serri, A., Alnaqeeb, M. A., Annice, B. G., & Mojiminiyi, O. (2019). Genetic association of LPL rs1121923 and rs258 with plasma TG and VLDL levels. *Scientific reports*, *9*(1), 1-10.
- Al-Bustan, S. A., Al-Serri, A., Annice, B. G., Alnaqeeb, M. A., Al-Kandari, W. Y., & Dashti, M. (2018). A novel LPL intronic variant: g. 18704C> A identified by re-sequencing Kuwaiti Arab samples is associated with high-density lipoprotein, very low-density lipoprotein and triglyceride lipid levels. *PloS one*, *13*(2), e0192617.
- Alsulami, S., Bodhini, D., Sudha, V., Shanthi Rani, C. S., Pradeepa, R., Anjana, R. M., ... & Vimalleswaran, K. S. (2021). Lower dietary intake of plant protein is associated with genetic risk of diabetes-related traits in urban Asian Indian adults. *Nutrients*, *13*(9), 3064.
- Anjana, R. M., Deepa, M., Pradeepa, R., Mahanta, J., Narain, K., Das, H. K., ... & Yajnik, C. S. (2017). Prevalence of diabetes and prediabetes in 15 states of India: results from the ICMR-INDIAB population-based cross-sectional study. *The lancet Diabetes & endocrinology*, *5*(8), 585-596.
- Askari, G., Heidari-Beni, M., Mansourian, M., Esmaeil-Motlagh, M., & Kelishadi, R. (2016). Interaction of lipoprotein lipase polymorphisms with body mass index and birth weight to modulate lipid profiles in children and adolescents: the CASPIAN-III Study. *Sao Paulo Medical Journal*, *134*, 121-129.
- Atanasovska, B., Kumar, V., Fu, J., Wijmenga, C., & Hofker, M. H. (2015). GWAS as a driver of gene discovery in cardiometabolic diseases. *Trends in Endocrinology & Metabolism*, *26*(12), 722-732.
- Athyros, V. G., Doumas, M., Imprialos, K. P., Stavropoulos, K., Georgiou, E., Katsimardou, A., & Karagiannis, A. (2018). Diabetes and lipid metabolism. *Hormones*, *17*(1), 61-67.
- Ayyappa, K. A., Shatwan, I., Bodhini, D., Bramwell, L. R., Ramya, K., Sudha, V., ... & Vimalleswaran, K. S. (2017). High fat diet modifies the association of lipoprotein lipase gene polymorphism with high density lipoprotein cholesterol in an Asian Indian population. *Nutrition & metabolism*, *14*(1), 1-9.
- Bandesh, K., Prasad, G., Giri, A. K., Kauser, Y., Upadhyay, M., Basu, A., ... & Bharadwaj, D. (2019). Genome-wide association study of blood lipids in Indians confirms universality of established variants. *Journal of Human Genetics*, *64*(6), 573-587.

- Below, J. E., Parra, E. J., Gamazon, E. R., Torres, J., Krithika, S., Candille, S., ... & Valladares-Salgado, A. (2016). Meta-analysis of lipid-traits in Hispanics identifies novel loci, population-specific effects and tissue-specific enrichment of eQTLs. *Scientific reports*, 6(1), 1-13.
- Boes, E., Coassin, S., Kollerits, B., Heid, I. M., & Kronenberg, F. (2009). Genetic-epidemiological evidence on genes associated with HDL cholesterol levels: a systematic in-depth review. *Experimental gerontology*, 44(3), 136-160.
- Boffetta, P., Winn, D. M., Ioannidis, J. P., Thomas, D. C., Little, J., Smith, G. D., ... & Khoury, M. J. (2012). Recommendations and proposed guidelines for assessing the cumulative evidence on joint effects of genes and environments on cancer occurrence in humans. *International journal of epidemiology*, 41(3), 686-704.
- Braun, T. R., Been, L. F., Singhal, A., Worsham, J., Ralhan, S., Wander, G. S., ... & Sanghera, D. K. (2012). A replication study of GWAS-derived lipid genes in Asian Indians: the chromosomal region 11q23.3 harbors loci contributing to triglycerides. *PloS one*, 7(5), e37056.
- Campos-Perez, W., Perez-Robles, M., Torres-Castillo, N., Rodríguez-Reyes, S. C., De la Cerda Trujillo, L. F., Navarro-Muñiz, E., ... & Martínez-Lopez, E. (2020). Physical inactivity and excessive sucrose consumption are associated with higher serum lipids in subjects with Taq1B CETP polymorphism. *Journal of Human Nutrition and Dietetics*, 33(3), 299-307.
- Chandra, K. S., Bansal, M., Nair, T., Iyengar, S. S., Gupta, R., Manchanda, S. C., ... & Gulati, S. (2014). Consensus statement on management of dyslipidemia in Indian subjects. *Indian heart journal*, 66(Suppl 3), S1.
- Chang, M. H., Ned, R. M., Hong, Y., Yesupriya, A., Yang, Q., Liu, T., ... & Dowling, N. F. (2011). Racial/ethnic variation in the association of lipid-related genetic variants with blood lipids in the US adult population. *Circulation: cardiovascular genetics*, 4(5), 523-533.
- Chen, T. Z., Xie, S. L., Jin, R., & Huang, Z. M. (2014). A novel lipoprotein lipase gene missense mutation in Chinese patients with severe hypertriglyceridemia and pancreatitis. *Lipids in Health and Disease*, 13(1), 1-5.
- Cho, Y. S., Go, M. J., Han, H. R., Cha, S. H., Kim, H. T., Min, H., ... & Oh, B. (2008). Association of lipoprotein lipase (LPL) single nucleotide polymorphisms with type 2 diabetes mellitus. *Experimental & molecular medicine*, 40(5), 523-532.
- Chu, W. C., Aziz, A. F. A., Nordin, A. J., & Cheah, Y. K. (2016). Association of cholesteryl ester transfer protein and endothelial nitric oxide synthase gene polymorphisms with coronary artery disease in the multi-ethnic Malaysian population. *Clinical and Applied Thrombosis/Hemostasis*, 22(6), 581-588.

- Consortium, G. P., Auton, A., Brooks, L. D., Durbin, R. M., Garrison, E. P., & Kang, H. M. (2015). A global reference for human genetic variation. *Nature*, *526*(7571), 68-74.
- Cui, J., Liu, Y., Li, Y., Xu, F., & Liu, Y. (2021). Type 2 diabetes and myocardial infarction: recent clinical evidence and perspective. *Frontiers in Cardiovascular Medicine*, *8*, 64.
- Daoud, M. S., Ataya, F. S., Fouad, D., Alhazzani, A., Shehata, A. I., & Al-Jafari, A. A. (2013). Associations of three lipoprotein lipase gene polymorphisms, lipid profiles and coronary artery disease. *Biomedical reports*, *1*(4), 573-582.
- De Caterina, R. (2010). Opportunities and challenges in nutrigenetics/nutrigenomics and health. *Personalized Nutrition*, *101*, 1-7.
- De Caterina, R., Martinez, J., & Kohlmeier, M. (2021). *Principles of nutrigenetics and nutrigenomics: Fundamentals of Individualized Nutrition* (pp. 54). London: Academic Press of Elsevier.
- Deepa, M., Pradeepa, R., Rema, M., Anjana, R. M., Deepa, R., Shanthirani, S., & Mohan, V. (2003). The Chennai Urban Rural Epidemiology Study (CURES)--study design and methodology (urban component)(CURES-I). *The journal of the association of physicians of India*, *51*, 863-70.
- de Waard, A. K. M., Hollander, M., Korevaar, J. C., Nielen, M. M., Carlsson, A. C., Lionis, C., ... & SPIMEU Project Group Angelaki Agapi Holzmann Martin J Král N Søndergaard Jens Sønderlund Anders L Wändell P. (2019). Selective prevention of cardiometabolic diseases: activities and attitudes of general practitioners across Europe. *European journal of public health*, *29*(1), 88-93.
- DiNicolantonio, J. J., & O'Keefe, J. H. (2018). Effects of dietary fats on blood lipids: a review of direct comparison trials. *Open heart*, *5*(2), e000871.
- Ehret, G. B. (2010). Genome-wide association studies: contribution of genomics to understanding blood pressure and essential hypertension. *Current hypertension reports*, *12*(1), 17-25.
- Elbers, C. C., Guo, Y., Tragante, V., Van Iperen, E. P., Lanktree, M. B., Castillo, B. A., ... & Keating, B. J. (2012). Gene-centric meta-analysis of lipid traits in African, East Asian and Hispanic populations. *PloS one*, *7*(12), e50198.
- Elsamanoudy, A. Z., Neamat-Allah, M. A. M., Mohammad, F. A. H., Hassanien, M., & Nada, H. A. (2016). The role of nutrition related genes and nutrigenetics in understanding the pathogenesis of cancer. *Journal of Microscopy and Ultrastructure*, *4*(3), 115-122.
- Escolà-Gil, J. C., Llaverias, G., Julve, J., Jauhiainen, M., Méndez-González, J., & Blanco-Vaca, F. (2011). The cholesterol content of Western diets plays a major role in the paradoxical increase in high-density lipoprotein cholesterol and upregulates the macrophage reverse cholesterol transport pathway. *Arteriosclerosis, thrombosis, and vascular biology*, *31*(11), 2493-2499.

- Feingold, K. R., & Grunfeld, C. (2021). Introduction to lipids and lipoproteins. MDText. com, Inc.
- Fenech, M., El-Soheby, A., Cahill, L., Ferguson, L. R., French, T. A. C., Tai, E. S., ... & Head, R. (2011). Nutrigenetics and nutrigenomics: viewpoints on the current status and applications in nutrition research and practice. *Lifestyle Genomics*, 4(2), 69-89.
- Ference, B. A., Kastelein, J. J., Ray, K. K., Ginsberg, H. N., Chapman, M. J., Packard, C. J., ... & Catapano, A. L. (2019). Association of triglyceride-lowering LPL variants and LDL-C-lowering LDLR variants with risk of coronary heart disease. *Jama*, 321(4), 364-373.
- Fernandez, M. L., & West, K. L. (2005). Mechanisms by which dietary fatty acids modulate plasma lipids. *The Journal of nutrition*, 135(9), 2075-2078.
- Friedlander, Y., Leitersdorf, E., Vecsler, R., Funke, H., & Kark, J. (2000). The contribution of candidate genes to the response of plasma lipids and lipoproteins to dietary challenge. *Atherosclerosis*, 152(1), 239-248.
- Fusegawa, Y., Kelley, K. L., Sawyer, J. K., Shah, R. N., & Rudel, L. L. (2001). Influence of dietary fatty acid composition on the relationship between CETP activity and plasma lipoproteins in monkeys. *Journal of lipid research*, 42(11), 1849-1857.
- Ganesan, M., Bhaskar, S., Mani, R., Idris, M. M., Khaja, N., Gulla, S., ... & Pulakurthy, U. R. (2011). The relationship of ACE and CETP gene polymorphisms with cardiovascular disease in a cohort of Asian Indian patients with and those without type 2 diabetes. *Journal of Diabetes and its Complications*, 25(5), 303-308.
- Garcia-Rios, A., Alcalá-Díaz, J. F., Gomez-Delgado, F., Delgado-Lista, J., Marin, C., Leon-Acuña, A., ... & Perez-Martinez, P. (2018). Beneficial effect of CETP gene polymorphism in combination with a Mediterranean diet influencing lipid metabolism in metabolic syndrome patients: CORDIOPREV study. *Clinical Nutrition*, 37(1), 229-234.
- Gulati, S., & Misra, A. (2017). Abdominal obesity and type 2 diabetes in Asian Indians: dietary strategies including edible oils, cooking practices and sugar intake. *European journal of clinical nutrition*, 71(7), 850-857.
- Gupta, N., Shah, P., Goel, K., Misra, A., Rastogi, K., Vikram, N. K., ... & Gulati, S. (2010). Imbalanced dietary profile, anthropometry, and lipids in urban Asian Indian adolescents and young adults. *Journal of the American College of Nutrition*, 29(2), 81-91.
- Hannon, B. A., Edwards, C. G., Thompson, S. V., Reeser, G. E., Burd, N. A., Holscher, H. D., ... & Khan, N. A. (2020). Single nucleotide polymorphisms related to lipoprotein metabolism are associated with blood lipid changes following regular avocado intake in a randomized control trial among adults with overweight and obesity. *The Journal of Nutrition*, 150(6), 1379-1387.

- Harrington, J. M., & Phillips, C. M. (2014). Nutrigenetics: Bridging two worlds to understand type 2 diabetes. *Current diabetes reports*, 14(4), 1-10.
- Hayek, T., Ito, Y., Azrolan, N., Verdery, R. B., Aalto-Setälä, K., Walsh, A., & Breslow, J. L. (1993). Dietary fat increases high density lipoprotein (HDL) levels both by increasing the transport rates and decreasing the fractional catabolic rates of HDL cholesterol ester and apolipoprotein (Apo) AI. Presentation of a new animal model and mechanistic studies in human Apo AI transgenic and control mice. *The Journal of clinical investigation*, 91(4), 1665-1671.
- Hegele, R. A. (2021). Lipoprotein and lipid metabolism. In *Emery and Rimoin's Principles and Practice of Medical Genetics and Genomics* (pp. 235-278). Academic Press.
- Hirano, T. (2018). Pathophysiology of diabetic dyslipidemia. *Journal of atherosclerosis and thrombosis*, RV17023.
- Hosseini-Esfahani, F., Esfandiari, Z., Mirmiran, P., Daneshpour, M. S., Ghanbarian, A., & Azizi, F. (2019). The interaction of cholesteryl ester transfer protein gene variations and diet on changes in serum lipid profiles. *European Journal of Clinical Nutrition*, 73(9), 1291-1298.
- Hsu, T. W., Tantoh, D. M., Lee, K. J., Ndi, O. N., Lin, L. Y., Chou, M. C., & Liaw, Y. P. (2019). Genetic and non-genetic factor-adjusted association between coffee drinking and high-density lipoprotein cholesterol in Taiwanese adults: stratification by sex. *Nutrients*, 11(5), 1102.
- Huang, T., Shu, Y., & Cai, Y. D. (2015). Genetic differences among ethnic groups. *BMC genomics*, 16(1), 1-10.
- Hussain, M. M. (2014). Intestinal lipid absorption and lipoprotein formation. *Current opinion in lipidology*, 25(3), 200.
- Igo Jr, R. P., Kinzy, T. G., & Cooke Bailey, J. N. (2019). Genetic risk scores. *Current protocols in human genetics*, 104(1), e95.
- Ilanbey, B., Kayikcioglu, M., Sezer, E. D., Pehlivan, S., Sagin, F. G., Ozkinay, F., & Sozmen, E. Y. (2020). The role of cholesteryl ester transfer protein TaqIB polymorphism in young atherosclerotic heart disease. *International Journal of Medical Biochemistry*, 3(1), 8-13.
- Indian Council of Medical Research. (2011). Dietary guidelines for Indians. *Nat Inst Nutrition*, 2, 89-117.
- International Diabetes Federation. (2021). *IDF Diabetes Atlas*. 7th ed. Diabetes Atlas <http://www.diabetesatlas.org>.
- Jebb, S. A., Lovegrove, J. A., Griffin, B. A., Frost, G. S., Moore, C. S., Chatfield, M. D., Bluck, L. J., Williams, C. M., Sanders, T. A., & RISCK Study Group (2010). Effect of changing the amount and type of fat and carbohydrate on insulin sensitivity and cardiovascular risk: the RISCK

- (Reading, Imperial, Surrey, Cambridge, and Kings) trial. *The American journal of clinical nutrition*, 92(4), 748–758.
- Julve, J., Llaverias, G., & Blanco-Vaca, F. (2011). Seeking novel targets for improving in vivo macrophage-specific reverse cholesterol transport: translating basic science into new therapies for the prevention and treatment of atherosclerosis. *Current Vascular Pharmacology*, 9(2), 220-237.
- Kalantar, Z., Eshraghian, M. R., Sotoudeh, G., Djalali, M., Mansouri, A., Alvandi, E., ... & Koohdani, F. (2018). Differences in the interaction between CETP Taq1B polymorphism and dietary fat intake on lipid profile of normolipidemic and dyslipidemic patients with type 2 diabetes mellitus. *Clinical Nutrition*, 37(1), 270-275.
- Keathley, J., Garneau, V., Zavala-Mora, D., Heister, R. R., Gauthier, E., Morin-Bernier, J., ... & Vohl, M. C. (2021). A Systematic Review and Recommendations Around Frameworks for Evaluating Scientific Validity in Nutritional Genomics. *Frontiers in nutrition*, 8.
- Kochetova, O. V., Avzaletdinova, D. S., Sharipova, L. F., Korytina, G. F., Akhmadishina, L. Z., Morugova, T. V., & Mustafina, O. E. (2019). An analysis of the associations of polymorphic variants of the LEPR (rs1137100), LRP5 (rs3736228), and LPL (rs320) genes with the risk of developing type 2 diabetes mellitus. *Russian Journal of Genetics*, 55(4), 495-503.
- Ku, C. S., Loy, E. Y., Salim, A., Pawitan, Y., & Chia, K. S. (2010). The discovery of human genetic variations and their use as disease markers: past, present and future. *Journal of human genetics*, 55(7), 403-415.
- Kumari, A., Kristensen, K. K., Ploug, M., & Winther, A. M. L. (2021). The importance of lipoprotein lipase regulation in atherosclerosis. *Biomedicines*, 9(7), 782.
- Kurano, M., Tsukamoto, K., Kamitsuji, S., Kamatani, N., Hara, M., Ishikawa, T., ... & Teramoto, T. (2016). Genome-wide association study of serum lipids confirms previously reported associations as well as new associations of common SNPs within PCSK7 gene with triglyceride. *Journal of human genetics*, 61(5), 427-433.
- Laksana, I., Rejeki, P. S., Herawati, L., Al Arif, M. A., & Wardhani, I. L. (2021). High-fat diet increases serum HDL, but not for LDL and HDL/LDL ratio in mice. *Folia Medica Indonesiana*, 57(2), 117-120.
- Läll, K., Mägi, R., Morris, A., Metspalu, A., & Fischer, K. (2017). Personalized risk prediction for type 2 diabetes: the potential of genetic risk scores. *Genetics in Medicine*, 19(3), 322-329.
- Larsson, M. (2014). *Endogenous and exogenous factors affecting lipoprotein lipase activity* (Doctoral dissertation, Umeå University).

- Li, T. Y., Zhang, C., Asselbergs, F. W., Qi, L., Rimm, E., Hunter, D. J., & Hu, F. B. (2007). Interaction between dietary fat intake and the cholesterol ester transfer protein Taq1B polymorphism in relation to HDL-cholesterol concentrations among US diabetic men. *The American journal of clinical nutrition*, *86*(5), 1524-1529.
- Liu, Y., & Tang, C. (2012). Regulation of ABCA1 functions by signaling pathways. *Biochimica et Biophysica Acta (BBA)-Molecular and Cell Biology of Lipids*, *1821*(3), 522-529.
- Lu, Y., Tayebi, N., Li, H., Saha, N., Yang, H., & Heng, C. K. (2013). Association of CETP Taq1B and-629C> A polymorphisms with coronary artery disease and lipid levels in the multi-ethnic Singaporean population. *Lipids in health and disease*, *12*(1), 1-13.
- Luo, H., Zhang, X., Shuai, P., Miao, Y., Ye, Z., & Lin, Y. (2017). Genetic variants influencing lipid levels and risk of dyslipidemia in Chinese population. *Journal of genetics*, *96*(6), 985-992.
- Ma, Y., Tucker, K. L., Smith, C. E., Lee, Y. C., Huang, T., Richardson, K., ... & Ordovás, J. M. (2014). Lipoprotein lipase variants interact with polyunsaturated fatty acids for obesity traits in women: replication in two populations. *Nutrition, Metabolism and Cardiovascular Diseases*, *24*(12), 1323-1329.
- Mani, I., & Kurpad, A. V. (2016). Fats & fatty acids in Indian diets: Time for serious introspection. *The Indian journal of medical research*, *144*(4), 507.
- Matsuzaka, T., & Shimano, H. (2020). New perspective on type 2 diabetes, dyslipidemia, and non-alcoholic fatty liver disease. *Journal of diabetes investigation*, *11*(3), 532-534.
- Meena, K., Misra, A., Vikram, N., Ali, S., Pandey, R. M., & Luthra, K. (2011). Cholesterol ester transfer protein and apolipoprotein E gene polymorphisms in hyperlipidemic Asian Indians in North India. *Molecular and cellular biochemistry*, *352*(1), 189-196.
- Miccoli, R., Keyzer, D. D., Giuseppe Penno, D., & Stefano Del Prato, D. (2008). Insulin resistance and lipid disorders. *Future lipidology*, *3*(6), 651-664.
- Mills, M., Barban, N., & Tropf, F. (2020). An introduction to statistical genetic data analysis. 1st ed., pp. 71-72. MIT Press.
- Mirmiran, P., Esfandiari, Z., Hosseini-Esfahani, F., Koochakpoor, G., Daneshpour, M. S., Sedaghati-Khayat, B., & Azizi, F. (2017). Genetic variations of cholesteryl ester transfer protein and diet interactions in relation to lipid profiles and coronary heart disease: a systematic review. *Nutrition & metabolism*, *14*(1), 1-15.
- Misra, A., Singhal, N., & Khurana, L. (2010). Obesity, the metabolic syndrome, and type 2 diabetes in developing countries: role of dietary fats and oils. *Journal of the American College of Nutrition*, *29*(sup3), 289S-301S.

- Mo, X., Liu, X., Wang, L., Lu, X., Chen, S., Li, H., ... & Gu, D. (2013). Association of lipoprotein lipase polymorphism rs2197089 with serum lipid concentrations and LPL gene expression. *Journal of human genetics*, 58(3), 160-164.
- Modena, B. D., Doroudchi, A., Patel, P., & Sathish, V. (2019). Leveraging genomics to uncover the genetic, environmental and age-related factors leading to asthma. In *Genomic and Precision Medicine* (pp. 331-381). Academic Press.
- Mohan, V., Deepa, R., Pradeepa, R., Vimalaswaran, K. S., Mohan, A., Velmurugan, K., & Radha, V. (2005). Association of low adiponectin levels with the metabolic syndrome—the Chennai Urban Rural Epidemiology Study (CURES-4). *Metabolism*, 54(4), 476-481.
- Mohan, V., Shanthirani, C. S., & Deepa, R. (2003). Glucose intolerance (diabetes and IGT) in a selected South Indian population with special reference to family history, obesity and lifestyle factors--the Chennai Urban Population Study (CUPS 14). *The Journal of the Association of Physicians of India*, 51, 771-7.
- Molendi-Coste, O., Legry, V., & Leclercq, I. A. (2010). Why and how meet n-3 PUFA dietary recommendations?. *Gastroenterology research and practice*, 2011.
- Mora, N., & Golden, S. H. (2017). Understanding cultural influences on dietary habits in Asian, Middle Eastern, and Latino patients with type 2 diabetes: a review of current literature and future directions. *Current diabetes reports*, 17(12), 1-12.
- Morton, R. E., & Liu, Y. (2020). The lipid transfer properties of CETP define the concentration and composition of plasma lipoproteins [S]. *Journal of lipid research*, 61(8), 1168-1179.
- Musunuru, K., Romaine, S. P., Lettre, G., Wilson, J. G., Volcik, K. A., Tsai, M. Y., ... & Rader, D. J. (2012). Multi-ethnic analysis of lipid-associated loci: the NHLBI CARE project. *PloS one*, 7(5), e36473.
- Nair, A. K., Piaggi, P., McLean, N. A., Kaur, M., Kobes, S., Knowler, W. C., ... & Baier, L. J. (2016). Assessment of established HDL-C loci for association with HDL-C levels and type 2 diabetes in Pima Indians. *Diabetologia*, 59(3), 481-491.
- O'Reilly, M., Dillon, E., Guo, W., Finucane, O., McMorrow, A., Murphy, A., ... & McGillicuddy, F. C. (2016). High-density lipoprotein proteomic composition, and not efflux capacity, reflects differential modulation of reverse cholesterol transport by saturated and monounsaturated fat diets. *Circulation*, 133(19), 1838-1850.
- Oh, S. W., Lee, J. E., Shin, E., Kwon, H., Choe, E. K., Choi, S. Y., ... & Choi, S. H. (2020). Genome-wide association study of metabolic syndrome in Korean populations. *PloS one*, 15(1), e0227357.
- Padmaja, N., Kumar, M. R., Soya, S. S., & Adithan, C. (2007). Common variants of Cholesteryl ester transfer protein gene and their association with lipid parameters in healthy volunteers of Tamilian population. *Clinica chimica acta*, 375(1-2), 140-146.

- Padmaja, N., Kumar, R. M., Balachander, J., & Adithan, C. (2009). Cholesteryl ester transfer protein TaqIB, -629C> A and I405V polymorphisms and risk of coronary heart disease in an Indian population. *Clinica chimica acta*, *402*(1-2), 139-145.
- Page, M. J., McKenzie, J. E., Bossuyt, P. M., Boutron, I., Hoffmann, T. C., Mulrow, C. D., ... & Moher, D. (2021). The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. *International Journal of Surgery*, *88*, 105906.
- Papotti, B., Escolà-Gil, J. C., Julve, J., Potì, F., & Zanotti, I. (2021). Impact of dietary lipids on the reverse cholesterol transport: What we learned from animal studies. *Nutrients*, *13*(8), 2643.
- Papp, A. C., Pinsonneault, J. K., Wang, D., Newman, L. C., Gong, Y., Johnson, J. A., ... & Sadee, W. (2012). Cholesteryl Ester Transfer Protein (CETP) polymorphisms affect mRNA splicing, HDL levels, and sex-dependent cardiovascular risk. *PloS one*, *7*(3), e31930.
- Park, J. M., Park, D. H., Song, Y., Kim, J. O., Choi, J. E., Kwon, Y. J., ... & Hong, K. W. (2021). Understanding the genetic architecture of the metabolically unhealthy normal weight and metabolically healthy obese phenotypes in a Korean population. *Scientific Reports*, *11*(1), 1-8.
- Perrone, B., Ruffo, P., Zelasco, S., Giordano, C., Morelli, C., Barone, I., ... & Conforti, F. L. (2022). LPL, FND5 and PPAR γ gene polymorphisms related to body composition parameters and lipid metabolic profile in adolescents from Southern Italy. *Journal of translational medicine*, *20*(1), 1-12.
- Phillips, C. M. (2013). Nutrigenetics and metabolic disease: current status and implications for personalised nutrition. *Nutrients*, *5*(1), 32-57.
- Pikó, P., Fialat, S., Kósa, Z., Sándor, J., & Ádány, R. (2019). Generalizability and applicability of results obtained from populations of European descent regarding the effect direction and size of HDL-C level-associated genetic variants to the Hungarian general and Roma populations. *Gene*, *686*, 187-193.
- Pirim, D., Wang, X., Radwan, Z. H., Niemsiri, V., Hokanson, J. E., Hamman, R. F., ... & Kamboh, M. I. (2014). Lipoprotein lipase gene sequencing and plasma lipid profile. *Journal of lipid research*, *55*(1), 85-93.
- Prabu, P., Rome, S., Sathishkumar, C., Aravind, S., Mahalingam, B., Shanthirani, C. S., ... & Balasubramanyam, M. (2015). Circulating miRNAs of 'Asian Indian phenotype identified in subjects with impaired glucose tolerance and patients with type 2 diabetes. *PloS one*, *10*(5), e0128372.
- Pradeepa, R., & Mohan, V. (2021). Epidemiology of type 2 diabetes in India. *Indian journal of ophthalmology*, *69*(11), 2932.

- Pritchard, B., Lahiri-Dutt, K., & Siddiqui, M. Z. (2019). Explaining recent increases in calorie intake in rural India: the role of social policy strengthening. *India Review*, *18*(2), 161-183.
- Pyun, J. A., Kim, S., Park, K., Baik, I., Cho, N. H., Koh, I., ... & Shin, C. (2012). Interaction effects of lipoprotein lipase polymorphisms with lifestyle on lipid levels in a Korean population: a cross-sectional study. *Genomics Inform*, *10*(2), 88-98.
- Qi, Q., Durst, R., Schwarzfuchs, D., Leitersdorf, E., Shpitzen, S., Li, Y., ... & Qi, L. (2015). CETP genotype and changes in lipid levels in response to weight-loss diet intervention in the POUNDS LOST and DIRECT randomized trials¹. *Journal of lipid research*, *56*(3), 713-721.
- Rafiq, S., Venkata, K. K. M., Gupta, V., Vinay, D. G., Spurgeon, C. J., Parameshwaran, S., ... & Chandak, G. R. (2012). Evaluation of seven common lipid associated loci in a large Indian sib pair study. *Lipids in health and disease*, *11*(1), 1-11.
- Raj, R., Bhatti, J. S., Badada, S. K., & Ramteke, P. W. (2015). Genetic basis of dyslipidemia in disease precipitation of coronary artery disease (CAD) associated type 2 diabetes mellitus (T2DM). *Diabetes/metabolism research and reviews*, *31*(7), 663-671.
- Ramasamy, I. (2014). Recent advances in physiological lipoprotein metabolism. *Clinical Chemistry and Laboratory Medicine (CCLM)*, *52*(12), 1695-1727.
- Rip, J., Nierman, M. C., Ross, C. J., Jukema, J. W., Hayden, M. R., Kastelein, J. J., ... & Kuivenhoven, J. A. (2006). Lipoprotein lipase S447X: a naturally occurring gain-of-function mutation. *Arteriosclerosis, thrombosis, and vascular biology*, *26*(6), 1236-1245.
- Rizzo, M., & Berneis, K. (2005). Lipid triad or atherogenic lipoprotein phenotype: a role in cardiovascular prevention?. *Journal of atherosclerosis and thrombosis*, *12*(5), 237-239.
- Rojas, M. P., Prieto, C., Bermúdez, V., Garicano, C., Nava, T. N., Martínez, M. S., ... & Rojas, J. (2017). Dyslipidemia: Genetics, lipoprotein lipase and HindIII polymorphism. *F1000Research*, *6*.
- Rouam, S. (2013). False discovery rate (FDR). *Encyclopedia of systems biology*, *36*, 731-732.
- Rudkowska, I., Ouellette, C., Dewailly, E., Hegele, R. A., Boiteau, V., Dubé-Linteau, A., ... & Vohl, M. C. (2013). Omega-3 fatty acids, polymorphisms and lipid related cardiovascular disease risk factors in the Inuit population. *Nutrition & metabolism*, *10*(1), 1-9.
- Salvador-Oliván, J. A., Marco-Cuenca, G., & Arquero-Avilés, R. (2019). Errors in search strategies used in systematic reviews and their effects on information retrieval. *Journal of the Medical Library Association: JMLA*, *107*(2), 210.
- Sattar, N., & Gill, J. M. (2015). Type 2 diabetes in migrant south Asians: mechanisms, mitigation, and management. *The lancet Diabetes & endocrinology*, *3*(12), 1004-1016.
- Schierer, A., Been, L. F., Ralhan, S., Wander, G. S., Aston, C. E., & Sanghera, D. K. (2012). Genetic variation in cholesterol ester transfer protein (CETP), serum CETP activity, and coronary

- artery disease (CAD) risk in Asian Indian diabetic cohort. *Pharmacogenetics and Genomics*, 22(2), 95.
- Shahid, S. U., Shabana, N. A., Cooper, J. A., Rehman, A., & Humphries, S. E. (2017). Common variants in the genes of triglyceride and HDL-C metabolism lack association with coronary artery disease in the Pakistani subjects. *Lipids in health and disease*, 16(1), 1-7.
- Sharma, M., Kishore, A., Roy, D., & Joshi, K. (2020). A comparison of the Indian diet with the EAT-Lancet reference diet. *BMC Public Health*, 20(1), 1-13.
- Smart, M. C., Dedoussis, G., Louizou, E., Yannakoulia, M., Drenos, F., Papoutsakis, C., ... & Talmud, P. J. (2010). APOE, CETP and LPL genes show strong association with lipid levels in Greek children. *Nutrition, Metabolism and Cardiovascular Diseases*, 20(1), 26-33.
- Stemmer, K., Finan, B., DiMarchi, R. D., Tschöp, M. H., & Müller, T. D. (2020). Insights into incretin-based therapies for treatment of diabetic dyslipidemia. *Advanced Drug Delivery Reviews*, 159, 34-53.
- Surampudi, P., Enkhmaa, B., Anuurad, E., & Berglund, L. (2016). Lipid lowering with soluble dietary fiber. *Current atherosclerosis reports*, 18(12), 1-13.
- Tai, E. S., Ordovas, J. M., Corella, D. O. L. O. R. E. S., Deurenberg-Yap, M. A. B. E. L., Chan, E., Adiconis, X., ... & Tan, C. E. (2003). The Taq1B and -629C> A polymorphisms at the cholesteryl ester transfer protein locus: associations with lipid levels in a multiethnic population. The 1998 Singapore National Health Survey. *Clinical genetics*, 63(1), 19-30.
- Tanguturi, P. R., Pullareddy, B., Krishna, B. R., & Murthy, D. K. (2013). Lipoprotein lipase gene HindIII polymorphism and risk of myocardial infarction in South Indian population. *Indian heart journal*, 65(6), 653-657.
- Tangvarasittichai, S. (2015). Oxidative stress, insulin resistance, dyslipidemia and type 2 diabetes mellitus. *World journal of diabetes*, 6(3), 456.
- Tani, M., Horvath, K. V., Lamarche, B., Couture, P., Burnett, J. R., Schaefer, E. J., & Asztalos, B. F. (2016). High-density lipoprotein subpopulation profiles in lipoprotein lipase and hepatic lipase deficiency. *Atherosclerosis*, 253, 7-14.
- Torres, N., & Tovar, A. R. (2021). The present and future of personalized nutrition. *Revista de investigación clínica*, 73(5), 321-325.
- Trajkovska, K. T., & Topuzovska, S. (2017). High-density lipoprotein metabolism and reverse cholesterol transport: strategies for raising HDL cholesterol. *Anatolian journal of cardiology*, 18(2), 149.

- Tremblay, A. J., Lamarche, B., Guay, V., Charest, A., Lemelin, V., & Couture, P. (2013). Short-term, high-fat diet increases the expression of key intestinal genes involved in lipoprotein metabolism in healthy men. *The American journal of clinical nutrition*, *98*(1), 32-41.
- Unnikrishnan, R., Anjana, R. M., & Mohan, V. (2014). Diabetes in South Asians: is the phenotype different?. *Diabetes*, *63*(1), 53-55.
- Vimaleswaran, K. S. (2020). A nutrigenetics approach to study the impact of genetic and lifestyle factors on cardiometabolic traits in various ethnic groups: Findings from the GeNulne Collaboration. *Proceedings of the Nutrition Society*, *79*(2), 194-204.
- Vimaleswaran, K. S., Le Roy, C. I., & Claus, S. P. (2015). Foodomics for personalized nutrition: how far are we?. *Current Opinion in Food Science*, *4*, 129-135.
- Walia, G. K., Gupta, V., Aggarwal, A., Asghar, M., Dudbridge, F., Timpson, N., ... & Ebrahim, S. (2014). Association of common genetic variants with lipid traits in the Indian population. *PloS one*, *9*(7), e101688.
- Wanschel, A. C., Guizoni, D. M., Lorza-Gil, E., Salerno, A. G., Paiva, A. A., Dorigheo, G. G., ... & Oliveira, H. C. (2021). The Presence of Cholesteryl Ester Transfer Protein (CETP) in Endothelial Cells Generates Vascular Oxidative Stress and Endothelial Dysfunction. *Biomolecules*, *11*(1), 69.
- Weiss, L. A., Pan, L., Abney, M., & Ober, C. (2006). The sex-specific genetic architecture of quantitative traits in humans. *Nature genetics*, *38*(2), 218-222.
- Welch Medical Library Guides: PubMed Search Tips*. Browse.welch.jhmi.edu. (2022). Retrieved 20 March 2022, from <https://browse.welch.jhmi.edu/global-health/pubmed-search-tips>.
- Young, S. G., & Zechner, R. (2013). Biochemistry and pathophysiology of intravascular and intracellular lipolysis. *Genes & development*, *27*(5), 459-484.
- Zheng, Y., Ley, S. H., & Hu, F. B. (2018). Global aetiology and epidemiology of type 2 diabetes mellitus and its complications. *Nature reviews endocrinology*, *14*(2), 88-98.
- Zhu, X. C., Lin, J., Wang, Q., Liu, H., Qiu, L., & Fang, D. Z. (2014). Associations of lipoprotein lipase gene rs326 with changes of lipid profiles after a high-carbohydrate and low-fat diet in healthy Chinese Han youth. *International Journal of Environmental Research and Public Health*, *11*(4), 4544-4554.
- Zhukova, N. V., Novgorodtseva, T. P., & Denisenko, Y. K. (2014). Effect of the prolonged high-fat diet on the fatty acid metabolism in rat blood and liver. *Lipids in health and disease*, *13*(1), 1-8.
- Zhyvotovska, A., Yusupov, D., & McFarlane, S. I. (2019). *Introductory Chapter: Overview of Lipoprotein Metabolism* (pp. 1-5). Dyslipidemia. IntechOpen.