

LIST OF PUBLICATIONS

Timo A. Lakka, Professor of Medical Physiology, Specialist in Internal Medicine
January 7, 2022

Peer-reviewed scientific articles

1. Salonen JT, Lakka TA. Assessment of physical activity in population studies - validity and consistency of the methods in the Kuopio Ischaemic Heart Disease Risk Factor Study. **Scand J Sports Sci** **1987**;9:89-95.
2. Lakka TA, Salonen JT. Intra-person variability of various physical activity assessments in the Kuopio Ischaemic Heart Disease Risk Factor Study (KIHD). **Int J Epidemiol** **1992**;21:467-472.
3. Lakka TA, Salonen JT. Physical activity and serum lipids: a cross-sectional population study in Eastern Finnish men. **Am J Epidemiol** **1992**;136:806-818.
4. Lakka TA, Salonen JT. Moderate to high intensity conditioning leisure time physical activity and high cardiorespiratory fitness are associated with reduced plasma fibrinogen in eastern Finnish men. **J Clin Epidemiol** **1993**;46:1119-1127.
5. Lakka TA, Venäläinen JM, Rauramaa R, Salonen R, Tuomilehto J, Salonen JT. Relation of leisure-time physical activity and cardiorespiratory fitness to the risk of acute myocardial infarction in men. **N Engl J Med** **1994**;330:1549-1554.
6. Lakka TA, Nyyssönen K, Salonen JT. Higher levels of conditioning leisure time physical activity are associated with reduced levels of stored iron in Finnish men. **Am J Epidemiol** **1994**;140:148-160.
7. Lakka TA, Kauhanen J, Salonen JT. Conditioning leisure time physical activity and cardiorespiratory fitness in sociodemographic groups of middle-aged men in Eastern Finland. **Int J Epidemiol** **1996**;25:86-93.
8. Lynch J, Helmrich SP, Lakka TA, Kaplan GA, Cohen RD, Salonen R, Salonen JT. Moderately intense physical activities and high levels of cardiorespiratory fitness reduce the risk of non-insulin-dependent diabetes mellitus in middle-aged men. **Arch Intern Med** **1996**;156:1307-1314.
9. Lakka TA, Lakka H-M, Salonen JT. Hyperinsulinemia and the risk of coronary heart disease. **N Engl J Med** **1996**;335:976-977.
10. Räsänen J, Kauhanen J, Lakka TA, Kaplan GA, Salonen JT. Religious affiliation and all- cause mortality: a prospective population study in middle-aged men in Eastern Finland. **Int J Epidemiol** **1996**;25:1244-1249.
11. Tuomainen T-P, Nyyssönen K, Salonen R, Tervahauta A, Korpela H, Lakka TA, Kaplan GA, Salonen JT. Body iron stores are associated with serum insulin and blood glucose concentrations: a population study in 1,013 eastern Finnish men. **Diabetes Care** **1997**;20:426-428.
12. Kauhanen J, Kaplan GA, Goldberg DE, Cohen RD, Lakka TA, Salonen JT. Frequent hangovers and cardiovascular mortality in middle-aged men. **Epidemiology** **1997**;8:310-314.
13. Lakka TA, Salonen JT. The Physical Activity Questionnaires of the Kuopio Ischemic Heart

- Disease Study (KIHD). **Med Sci Sports Exerc** 1997;29:S46-S58.
14. Puntila E, Kröger H, Lakka TA, Honkanen R, Tuppurainen M. Physical activity in adolescence and bone density in peri- and postmenopausal women: a population based-study. **Bone** 1997;21:363-367.
 15. Salonen JT, Lakka TA, Lakka H-M, Valkonen V-P, Everson SA, Kaplan GA. Hyperinsulinemia is associated with the incidence of hypertension and dyslipidemia in middle-aged men. **Diabetes** 1998;47:270-275.
 16. Salonen JT, Tuomainen T-P, Salonen R, Lakka TA, Nyyssönen K. Donation of blood is associated with reduced risk of myocardial infarction: The Kuopio Ischaemic Heart Disease Risk Factor Study. **Am J Epidemiol** 1998;148:445-451.
 17. Everson SA, Goldberg DE, Helmrich SP, Lakka TA, Lynch JW, Kaplan GA, Salonen JT. Weight gain and the risk of developing insulin resistance syndrome. **Diabetes Care** 1998;21:1637-1643.
 18. Everson SA, Kaplan GA, Goldberg DE, Lakka TA, Sivenius J, Salonen JT. Anger expression and incident stroke: prospective evidence from the Kuopio Ischemic Heart Disease Study. **Stroke** 1999;30:523-528.
 19. Lakka TA, Salonen R, Kaplan GA, Salonen JT. Blood pressure and the progression of carotid atherosclerosis in middle-aged men. **Hypertension** 1999;34:51-56.
 20. Salonen JT, Malin R, Tuomainen T-P, Nyyssönen K, Lakka TA, Lehtimäki T. Polymorphism in high density lipoprotein paraoxonase gene and risk of acute myocardial infarction in men: prospective nested case-control study. **BMJ** 1999;319:487-488.
 21. Tuomainen T-P, Kontula K, Nyyssönen K, Lakka TA, Heliö T, Salonen JT. Increased risk of acute myocardial infarction in carriers of the hemochromatosis gene Cys282Tyr mutation: a prospective cohort study in men in eastern Finland. **Circulation** 1999;100:1274-1279.
 22. Vanharanta M, Voutilainen S, Lakka TA, Van der Lee M, Adlercreutz H, Salonen JT. Risk of acute coronary events according to serum concentrations of enterolactone: a prospective population-based case-control study. **Lancet** 1999;354:2112-2115.
 23. Lakka H-M, Lakka TA, Tuomilehto J, Sivenius J, Salonen JT. Hyperinsulinemia and the risk of cardiovascular death and acute coronary and cerebrovascular events in men. The Kuopio Ischemic Heart Disease Risk Factor Study (KIHD). **Arch Intern Med** 2000;160:1160-1168.
 24. Salonen JT, Seppänen K, Lakka TA, Salonen R, Kaplan GA. Mercury Accumulation and Accelerated Progression of Carotid Atherosclerosis: a population-based prospective 4-year follow-up study in men in eastern Finland. **Atherosclerosis** 2000;148:265-273.
 25. Voutilainen S, Lakka TA, Porkkala-Sarataho E, Rissanen T, Kaplan GA, Salonen JT. Low serum folate concentrations are associated with an excess risk of acute coronary events: the Kuopio Ischaemic Heart Disease Risk Factor Study. **Eur J Clin Nutr** 2000;54:1-5.
 26. Laaksonen DE, Atalay M, Niskanen LK, Mustonen J, Sen CK, Lakka TA, Uusitupa M. Aerobic exercise and the lipid profile in type 1 diabetic men: a randomized controlled trial. **Med Sci Sports Exerc** 2000;32:1541-1548.
 27. Voutilainen S, Lakka TA, Hämelehti P, Lehtimäki T, Poulsen HE, Salonen JT. Plasma total homocysteine concentration and the risk of acute coronary events: the Kuopio Ischaemic Heart Disease Risk Factor Study. **J Intern Med** 2000;248:217-222.
 28. Voutilainen S, Lakka TA, Hämelehti P, Lehtimäki T, Poulsen HE, Salonen JT. Plasma total

- homocysteine concentration and the risk of acute coronary events: the Kuopio Ischaemic Heart Disease Risk Factor Study. **J Intern Med** 2000;248:217-222.
- 29. Salonen JT, Nyysönen K, Salonen R, Lakka H-M, Kaikkonen J, Porkkala-Sarataho E, Voutilainen S, Lakka TA, Rissanen T, Leskinen L, Tuomainen T-P, Valkonen V-P, Ristonmaa U, Poulsen HE. Antioxidant Supplementation in Atherosclerosis Prevention (ASAP) study: a randomized trial of the effect of vitamins E and C on 3-year progression of carotid atherosclerosis. **J Intern Med** 2000; 248:377-386.
 - 30. Simula SH, Lakka TA, Laitinen TP, Remes J, Kettunen RV, Kuikka JT, Hartikainen JEK. Cardiac adrenergic denervation in patients with non-Q-wave versus Q-wave infarction. **Eur J Nuclear Med** 2000;27:816-821.
 - 31. Rissanen T, Voutilainen S, Nyysönen K, Lakka TA, Salonen JT. Fish oil derived fatty acids, docosahexaenoic acid and docosapentaenoic acid, and the risk of acute coronary events: the Kuopio Ischemic Heart Disease Risk Factor Study. **Circulation** 2000;102:2677-2679.
 - 32. Salonen JT, Vanharanta M, Voutilainen S, Lakka TA, Adlercreutz H. Enterolactone and coronary events. Author's reply. **Lancet** 2000;355:1643.
 - 33. Lakka TA, Lakka H-M, Salonen R, Kaplan GA, Salonen JT. Abdominal obesity is associated with accelerated progression of carotid atherosclerosis in men. **Atherosclerosis** 2001;154:497-504.
 - 34. Rissanen T, Voutilainen S, Nyysönen K, Lakka TA, Salonen R, Kaplan GA, Salonen JT. Low serum lycopene concentration is associated with an excess risk of acute coronary events and stroke: the Kuopio Ischaemic Heart Disease Risk Factor Study. **Brit J Nutr** 2001;85:1-7.
 - 35. Lakka TA, Laukkonen JA, Rauramaa R, Salonen R, Lakka H-M, Kaplan G, Salonen JT. Cardiorespiratory fitness and the progression of carotid atherosclerosis in middle-aged men. **Ann Intern Med** 2001;134:12-20.
 - 36. Laukkonen JA, Lakka TA, Rauramaa R, Kuhnen R, Venäläinen JM, Salonen R, Salonen JT. Cardiovascular fitness as a predictor of mortality in men. **Arch Intern Med** 2001;161:825-831.
 - 37. Snair A, Heinonen P, Tuomainen T-P, Alhopuro P, Karvonen MK, Lakka TA, Nyysönen K, Salonen R, Kauhanen J, Valkonen V-P, Pesonen U-M, Koulu M, Scheinin M, Salonen JT. An insertion/deletion polymorphism in the alpha2B-adrenergic receptor gene is a novel genetic risk factor for acute coronary events. **J Am Coll Cardiol** 2001;37:1516-1522.
 - 38. Everson SA, Lynch JW, Kaplan GA, Lakka TA, Sivenius J, Salonen JT. Stress-induced blood pressure reactivity and incident stroke in middle-aged men. **Stroke** 2001;32:1263-1270.
 - 39. Laukkonen J, Kurl S, Lakka TA, Tuomainen T-P, Rauramaa R, Salonen R, Eränen J, Salonen JT. Exercise-induced silent myocardial ischemia and coronary morbidity and mortality in middle-aged men. **J Am Coll Cardiol** 2001;38:72-79.
 - 40. Voutilainen S, Rissanen T, Virtanen J, Lakka TA, Salonen JT. Low dietary folate intake is associated with an excess incidence of acute coronary events: The Kuopio Ischemic Heart Disease Risk Factor Study. **Circulation** 2001;103:2674-2680.
 - 41. Punttila E, Kröger H, Lakka TA, Tuppurainen M, Jurvelin J, Honkanen R. Leisure-time physical activity and rate of bone loss among peri- and postmenopausal women – a longitudinal study. **Bone** 2001;29:442-446.
 - 42. Kurl S, Laukkonen JA, Rauramaa R, Lakka TA, Sivenius J, Salonen JT. Systolic blood pressure response to exercise stress test and risk of stroke. **Stroke** 2001;32:2036-2041.

43. Karvonen MK, Valkonen V-P, Lakka TA, Salonen R, Koulu M, Pesonen U, Tuomainen T-P, Kauhanen J, Nyysönen K, Lakka H-M, Uusitupa MI, Salonen JT. Leucine7 to proline7 polymorphism in the preproneuropeptide Y is associated with the progression of carotid atherosclerosis, blood pressure and serum lipids in Finnish men. **Atherosclerosis** **2001**;159:145-151.
44. Snair A, Heinonen P, Tuomainen T-P, Lakka TA, Kauhanen J, Salonen JT, Scheinin M. G-protein beta3 subunit C825T polymorphism: no association with risk for hypertension and obesity. **J Hypertens** **2001**;19:2149-2155.
45. Helkala E-L, Lakka TA, Vanhanen M, Tuomainen T-P, Ehnholm C, Kaplan GA, Salonen JT. Associations between apolipoprotein E phenotype, glucose metabolism and cognitive function in men. An explorative study in a population sample. **Diabet Med** **2001**;18:991-997.
46. Valkonen V-P, Päivä H, Salonen JT, Lakka TA, Lehtimäki T, Laakso J, Laaksonen R. Risk of acute coronary events and serum concentration of asymmetrical dimethylarginine. **Lancet** **2001**;358:2127-2128.
47. Lakka H-M, Lakka TA, Tuomilehto J, Salonen JT. Abdominal obesity is associated with increased risk of acute coronary events in men. **Eur Heart J** **2002**;23:706-713.
48. Kurl S, Tuomainen T-P, Laukkanen J, Lakka TA, Nyysönen K, Sivenius J, Salonen JT. Plasma vitamin C modifies the association between hypertension and risk of stroke. **Stroke** **2002**;33:1568-1573.
49. Laaksonen DE, Lakka TA, Lakka H-M, Nyysönen K, Rissanen T, Niskanen LK, Salonen JT. Serum fatty acid composition predicts development of impaired fasting glycaemia and diabetes in middle-aged men. **Diabet Med** **2002**;19:456-464.
50. Venho B, Voutilainen S, Valkonen V-P, Virtanen J, Lakka TA, Ovaskainen M-L, Laitinen M, Salonen JT. Arginine intake, blood pressure, and the incidence of acute coronary events in men: the Kuopio Ischaemic Heart Disease Risk Factor Study. **Am J Clin Nutr** **2002**;76:359-364.
51. Rauramaa R, Kuhnen R, Lakka TA, Väisänen SB, Halonen P, Alén M, Rankinen T, Bouchard C. Physical exercise and blood pressure with reference to the angiotensinogen M235T polymorphism. **Physiol Genomics** **2002**;10:71-77.
52. Lakka H-M, Salonen JT, Tuomilehto J, Kaplan GA, Lakka TA. Obesity and weight gain are associated with increased incidence of hyperinsulinemia in nondiabetic men. **Horm Metab Res** **2002**;34:492-498.
53. Laaksonen DE, Lakka H-M, Salonen JT, Niskanen LK, Rauramaa R, Lakka TA. Low levels of leisure-time physical activity and cardiorespiratory fitness predict development of the metabolic syndrome. **Diabetes Care** **2002**;25:1612-1618.
54. Lakka H-M, Laaksonen DE, Lakka TA, Niskanen LK, Kumpusalo E, Tuomilehto J, Salonen JT. The metabolic syndrome and total and cardiovascular disease mortality in middle-aged men. **JAMA** **2002**;288:2709-2716.
55. Laaksonen DE, Lakka H-M, Kaplan GA, Niskanen LK, Salonen JT, Lakka TA. The metabolic syndrome and development of diabetes mellitus: application and validation of a recently suggested definition in a prospective cohort study. **Am J Epidemiol** **2002**;156:1070-1077.
56. Karpansalo M, Manninen P, Lakka TA, Kauhanen J, Rauramaa R, Salonen JT. Physical workload and risk of early retirement: Prospective population-based study among middle-aged

- men. **J Occup Environ Med** 2002;44:930-939.
57. Lakka TA, Lakka H-M, Salonen R, Kaplan GA, Salonen JT. Abdominal obesity is associated with accelerated progression of carotid atherosclerosis in middle-aged men. **Compendium Series: Obesity** 2002;1.
58. Lakka TA, Rankinen T, Weisnagel SJ, Chagnon YC, Rice T, Leon AS, Skinner JS, Wilmore JH, Rao DC, Bouchard C. A quantitative trait locus on 7q31 for the changes in plasma insulin in response to exercise training: the HERITAGE Family Study. **Diabetes** 2003;52:1583-1587.
59. Laaksonen DE, Lakka H-M, Lynch JW, Lakka TA, Niskanen LK, Rauramaa R, Salonen JT, Kauhanen J. Cardiorespiratory fitness and vigorous leisure-time physical activity modify the association of small size at birth with the metabolic syndrome. **Diabetes Care** 2003;26:2156-2164.
60. König D, Väistönen SB, Bouchard C, Halle M, Lakka TA, Baumstark MW, Alen M, Berg A, Rauramaa R. Cardiorespiratory fitness modifies the association between dietary fat intake and plasma fatty acids. **Eur J Clin Nutr** 2003;57:810-815.
61. Lakka TA, Laaksonen DE, Lakka H-M, Männikkö N, Niskanen LK, Rauramaa R, Salonen JT. Sedentary lifestyle, poor cardiorespiratory fitness and the metabolic syndrome. **Med Sci Sports Exerc** 2003;35:1279-1286.
62. Kurl S, Laukkanen JA, Tuomainen T-P, Rauramaa R, Lakka TA, Salonen R, Eranen J, Sivenius J, Salonen JT. Association of exercise-induced, silent ST-segment depression with the risk of stroke and cardiovascular diseases in men. **Stroke** 2003;34:1760-1765.
63. Pelkonen M, Notkola I-L, Lakka TA, Tukiainen HO, Kivinen P, Nissinen A. Delaying decline in pulmonary function with physical activity: a 25-year follow-up. **Am J Respir Crit Care Med** 2003;168:494-499.
64. Kurl S, Laukkanen JA, Rauramaa R, Lakka TA, Sivenius J, Salonen JT. Cardiorespiratory fitness and the risk for stroke in men. **Arch Intern Med** 2003;163:1682-1688.
65. Karpansalo M, Lakka TA, Manninen P, Kauhanen J, Rauramaa R, Salonen JT. Cardiorespiratory fitness and risk of disability pension: a prospective population-based study in Finnish men. **J Occup Environ Med** 2003;60:765-769.
66. Valkonen V-P, Laakso J, Päivä H, Lehtimäki T, Lakka TA, Isomustajärvi M, Ruokonen I, Salonen JT, Laaksonen R. Asymmetrical dimethylarginine (ADMA) and risk of acute coronary events – Does statin treatment influence plasma ADMA levels? **Atheroscler Suppl** 2003;4:19-22.
67. Lakka H-M, Laaksonen DE, Lakka TA, Niskanen LK, Kumpusalo E, Tuomilehto J, Salonen JT. Definitions of the metabolic syndrome. **JAMA** 2003;289:1240-1241.
68. Hu G, Barengo N, Tuomilehto J, Lakka TA, Nissinen A, Jousilahti P. Relationship of physical activity and body mass index to the risk of hypertension: a prospective study in Finland. **Hypertension** 2004;43:25-30.
69. Fan Y-M, Salonen JT, Koivu TA, Tuomainen T-P, Nyysönen K, Lakka TA, Salonen R, Seppänen K, Nikkari ST, Tahvanainen E, Lehtimäki T. Hepatic lipase C-480T polymorphism modifies the effect of HDL cholesterol on the risk of acute myocardial infarction in men: a prospective population-based study. **J Med Genet** 2004;41:e28.
70. Lakka TA, Rankinen T, Weisnagel SJ, Chagnon YC, Lakka H-M, Ukkola O, Boulé N, Rice T, Leon AS, Skinner JS, Wilmore JH, Rao DC, Bergman R, Bouchard C. Leptin and leptin

- receptor gene polymorphisms and changes in glucose homeostasis in response to regular exercise in nondiabetic individuals: the HERITAGE Family Study. **Diabetes** 2004;53:1603-1608.
71. Rauramaa R, Halonen P, Väistönen SB, Lakka TA, Kuhanen R, Schmidt-Trucksäss A, Berg A, Penttilä I, Bouchard C. Effects of aerobic physical exercise on inflammation and atherosclerosis in men: the DNASCO study: a six-year randomized controlled trial. **Ann Intern Med** 2004;140:1007-1014.
 72. Niskanen LK, Laaksonen DE, Nyysönen K, Alfthan G, Lakka H-M, Lakka TA, Salonen JT. Uric acid levels as a risk factor for cardiovascular and all cause mortality in middle-aged men: a prospective cohort study. **Arch Intern Med** 2004;164:1546-1551.
 73. Hu G, Eriksson J, Barengo NC, Lakka TA, Valle T, Nissinen A, Jousilahti P, Tuomilehto J. Occupational, commuting, and leisure-time physical activity in relation to total and cardiovascular mortality among Finnish subjects with type 2 diabetes. **Circulation** 2004;110:666-673.
 74. Karpansalo M, Manninen P, Kauhanen J, Lakka TA, Salonen JT. Perceived health as a predictor of early retirement. **Scand J Work Environ Health** 2004;30:287-292.
 75. Laukkanen J, Kurl S, Rauramaa R, Lakka TA, Venäläinen JM, Salonen JT. Systolic blood pressure during recovery from exercise and the risk of acute myocardial infarction in middle-aged men. **Hypertension** 2004;44:820-825.
 76. Barengo NC, Hu G, Lakka TA, Pekkarinen H, Nissinen A, Tuomilehto J. Low physical activity as a predictor for total and cardiovascular disease mortality in middle-aged men and women in Finland. **Eur Heart J** 2004;25:2204-2211.
 77. Rauramaa R, Lakka TA, Halonen P. Physical exercise, inflammation and atherosclerosis. **Ann Intern Med** 2004;141:890.
 78. Borodulin K, Lakka TA, Laatikainen T, Laukkanen R, Kinnunen H, Jousilahti P. Associations of self-rated fitness and different types of leisure time physical activity with predicted aerobic fitness in 5979 Finnish adults. **J Phys Act Health** 2004;1:142-153.
 79. Lakka TA, Bouchard C. Genetics, physical activity, fitness and health: What does the future hold? **JR Soc Promot Health** 2004;124:14-15.
 80. Laukkanen JA, Lakka TA, Rauramaa R, Salonen JT. Cardiorespiratory fitness as a predictor of cardiovascular diseases: Are common cardiorespiratory fitness measurements useful among individuals undergoing exercise testing? **Cardiovascular Reviews** 2004.
 81. Laaksonen DE, Niskanen L, Lakka H-M, Lakka TA, Uusitupa M. Epidemiology and treatment of the metabolic syndrome. **Ann Med** 2004;36:1-15.
 82. Hu G, Lakka TA, Barengo NC, Tuomilehto J. Physical activity in the prevention of type 2 diabetes. **Kardiovaskulare Medizin** 2004;7:394-405.
 83. Hassinen M, Komulainen P, Lakka TA, Väistönen SB, Rauramaa R. Association of body composition and physical activity with balance and walking ability in the elderly. **J Phys Act Health** 2005;3:298-306.
 84. Lakka TA, Bouchard C. Physical activity, obesity and cardiovascular diseases. In: von Eckardstein A, Ed. **Handbook of Experimental Pharmacology. Arteriosclerosis: Influences of diets and drugs**. Springer 2005, Heidelberg, Germany.

85. Hu G, Lakka TA, Barengo NC, Tuomilehto J. Physical activity, physical fitness, and risk of type 2 diabetes mellitus. **Metab Syndr Relat Disord** 2005;3:35-44.
86. Barengo NC, Hu G, Kastarinen M, Lakka TA, Nissinen A, Pekkarinen H, Tuomilehto J. Low physical activity as a predictor for anti-hypertension drug treatment in 30-59-years old populations in eastern and south-western Finland. **J Hypertens** 2005;23:293-299.
87. Hu G, Jousilahti P, Barengo NC, Qiao Q, Lakka TA, Tuomilehto J. Physical activity, cardiovascular risk factors, and mortality among Finnish adults with diabetes. **Diabetes Care** 2005;4:799-805.
88. Boulé NG, Weisnagel SG, Lakka TA, Tremblay A, Bergman RN, Rankinen T, Leon AS, Skinner JS, Wilmore JH, Rao DC, Bouchard C. Effects of exercise training on glucose homeostasis: The HERITAGE Family Study. **Diabetes Care** 2005;28:108-114.
89. Laaksonen DE, Lindström J, Lakka TA, Eriksson JG, Niskanen LK, Wikström K, Aunola S, Keinänen-Kiukaanniemi S, Laakso M, Valle TT, Ilanne-Parikka P, Louheranta A, Hääläinen H, Rastas M, Salminen V, Cepaitis Z, Hakumäki M, Kaikkonen H, Härkönen P, Sundvall J, Tuomilehto J, Uusitupa M. Physical activity in the prevention of type 2 diabetes: The Finnish Diabetes Prevention Study. **Diabetes** 2005;54:158-165.
90. Karpansalo M, Kauhanen J, Lakka TA, Manninen P, Kaplan GA, Salonen JT. Depression and early retirement: Prospective population-based study in middle-aged men. **J Epidemiol Community Health** 2005;59:70-74.
91. Borodulin K, Laatikainen T, Lahti-Koski M, Lakka TA, Laukkanen R, Sarna S, Jousilahti P. Associations between estimated aerobic fitness and cardiovascular risk factors in adults with different levels of abdominal obesity. **Eur J Cardiovasc Prev Rehabil** 2005;2:126-131.
92. Wadén J, Tikkanen H, Forsblom C, Fagerudd J, Pettersson-Fernholm K, Lakka TA, Riska M, Groop PH. Leisure time physical activity is associated with improved glycemic control in female type 1 diabetic patients. **Diabetes Care** 2005;4:777-782.
93. Ukkola O, Rankinen T, Lakka TA, Leon AS, Skinner JS, Wilmore JH, Rao DC, Kesäniemi YA, Bouchard C. Protein tyrosine phosphatase 1B variant associated with fat distribution and insulin metabolism. **Obes Res** 2005;13:829-834.
94. Lakka TA, Lakka HM, Rankinen T, Leon AS, Rao DC, Skinner JS, Wilmore JH, Bouchard C. Effect of exercise training on serum levels of C-reactive protein in healthy individuals: the HERITAGE Family Study. **Eur Heart J** 2005;26:2018-2025.
95. Barengo NC, Kastarinen M, Lakka TA, Nissinen A, Tuomilehto J. Different forms of physical activity and cardiovascular risk factors among 24-64 year-old men and women in Finland. **Eur J Cardiovasc Prev Rehabil** 2006;13:51-59.
96. Savonen KP, Lakka TA, Laukkanen JA, Salonen JT, Rauramaa TH, Rauramaa R. Heart rate response during exercise test and cardiovascular mortality in middle-aged men. **Eur Heart J** 2006;27:582-588.
97. Hassinen M, Komulainen P, Lakka TA, Väistönen SB, Haapala I, Gylling H, Alen M, Schmidt-Trucksäss A, Nissinen A, Rauramaa R. Metabolic syndrome and the progression of carotid intima-media thickness in elderly women. **Arch Intern Med** 2006;166:444-449.
98. Virtanen JK, Voutilainen S, Rissanen TH, Happonen P, Mursu J, Laukkanen JA, Poulsen H, Lakka TA, Salonen JT. Dietary methionine intake increases the risk of acute coronary events. **Nutr Metab Cardiovasc Dis** 2006;16:113-120.

99. Herder C, Peltonen M, Koenig W, Kräft I, Müller-Scholze S, Martin S, Lakka TA, Lindström J, Kolb H, Tuomilehto J. Systemic concentrations of immune mediators predict susceptibility or resistance to lifestyle changes to prevent type 2 diabetes: Results from the Finnish Diabetes Prevention Study. **Diabetes** **2006**;55:2340-2346.
100. Hassinen M, Lakka TA, Komulainen P, Gylling H, Nissinen A, Rauramaa R. High Sensitivity C-reactive Protein and Metabolic Syndrome in Elderly Women - a 12-year follow-up study. **Diabetes Care** **2006**;29:931-932.
101. Lakka HM, Lakka TA, Rankinen T, Rice T, Rao DC, Leon AS, Skinner JS, Wilmore JH, Bouchard C. The TNF-alpha G-308A polymorphism is associated with C-reactive protein levels: the HERITAGE Family Study. **Vascul Pharmacol** **2006**;44:377-383.
102. Laukkanen J, Kurl S, Salonen JT, Kuhanen R, Lakka TA, Rauramaa R. Peak oxygen pulse during exercise as a predictor for coronary heart disease and all-cause death in men. **Heart** **2006**;92:1219-1224.
103. Lakka TA, Rankinen T, Rice T, Leon AS., Rao DC, Skinner JS, Wilmore JH, Bouchard C. A quantitative trait locus on chromosome 20q13 for serum levels of C-reactive protein: the HERITAGE Family Study. **Physiol Genomics** **2006**;27:103-107.
104. Borodulin K, Tuomilehto J, Peltonen M, Lakka TA, Sundvall J, Jousilahti P. Association of leisure time physical activity, self-rated physical fitness, and estimated aerobic fitness with fasting serum insulin and two-hour post-challenge plasma glucose levels. **Diabet Med** **2006**;23:1025-1028.
105. Laukkanen JA, Kurl S, Rauramaa R, Lakka TA, Venäläinen JM, Salonen JT. Systolic blood pressure response to exercise testing is related to the risk of acute myocardial infarction in middle-aged men. **Eur J Cardiovasc Prev Rehabil** **2006**;13:421-428.
106. Lakka TA, Lakka H-M, Rankinen T, Bouchard C. Exercise and inflammation. **Eur Heart J** **2006**;27:1385-1386.
107. Hu G, Jousilahti P, Borodulin K, Barengo NC, Lakka TA, Nissinen A, Tuomilehto J. Occupational, commuting and leisure-time physical activity in relation to coronary heart disease among middle-aged Finnish men and women. **Atherosclerosis** **2006**;194:490-497.
108. Hu G, Rico-Sanz J, Lakka TA, Tuomilehto J. Exercise, genetics and prevention of type 2 diabetes. **Essays Biochem** **2006**;42:177-192.
109. Hu G, Lakka TA, Lakka HM, Tuomilehto J. Lifestyle management in the metabolic syndrome. **Metab Syndr Relat Disord** **2006**;4:270-286.
110. Hu G, Lakka TA, Lakka HM, Tuomilehto J. Obesity, physical activity, and nutrition in the metabolic syndrome (chapter 9). In: Krentz AJ, Wong ND (eds.) **Metabolic Syndrome and Cardiovascular Disease**. Epidemiology, Assessment, and Management. Informa Healthcare, New York **2007**;241-277.
111. Lakka TA, Laaksonen DE. Physical activity in prevention and treatment of metabolic syndrome. **Appl Physiol Nutr Metab** **2007**;32:76-88.
112. Komulainen P, Lakka TA, Kivipelto M, Hassinen M, Helkala E-L, Haapala I, Nissinen A, Rauramaa R. Metabolic syndrome and cognitive function: a population-based follow-up study in elderly women. **Dement Geriatr Cogn Disord** **2007**;23:29-34.
113. Hassinen M, Lakka TA, Komulainen P, Haapala I, Nissinen A, Rauramaa R. Association of waist and hip circumference with 12-year progression of carotid intima-media thickness in

- elderly women. **Int J Obes** 2007;31:1406-1411.
114. Hu G, Lakka TA, Kilpeläinen T, Tuomilehto J. Epidemiological studies of exercise in diabetes prevention. **Appl Physiol Nutr Metab** 2007;32:583-595.
 115. Wadén J, Thorn L, Forsblom C, Lakka TA, Saraheimo M, Rosengård-Bärlund M, Heikkilä O, Wessman M, Turunen J, Parkkonen M, Tikkanen H, Groop PH. Leisure-time physical activity is associated with the metabolic syndrome in type 1 diabetes: effect of the PPAR-gamma Pro12Ala polymorphism: The FinnDiane Study. **Diabetes Care** 2007;30:1618-1620.
 116. Komulainen P, Lakka TA, Kivipelto M, Hassinen M, Helkala E-L, Haapala I, Penttilä I, Nissinen A, Rauramaa R. Serum high sensitivity C-reactive protein and cognitive function in elderly women. **Age Ageing** 2007;36:443-438.
 117. Savonen KP, Lakka TA, Laukkanen JA, Salonen JT, Rauramaa TH, Rauramaa R. Effectiveness of workload at the heart rate of 100 beats/min in predicting cardiovascular mortality in men aged 42, 48, 54, or 60 years at baseline. **Am J Cardiol** 2007;100:563-568.
 118. Komulainen P, Kivipelto M, Lakka TA, Hassinen M, Helkala EL, Kristiina P, Nissinen A, Rauramaa R. Carotid intima-media thickness and cognitive function in elderly women: a population-based study. **Neuroepidemiology** 2007;28:207-213.
 119. Kilpeläinen TO, Lakka TA, Laaksonen DE, Laukkanen O, Lindström J, Eriksson JG, Valle TT, Hääläinen H, Aunola S, Ilanne-Parikka P, Keinänen-Kiukaanniemi S, Tuomilehto J., Uusitupa M, Laakso M. Physical activity modifies the effect of SNPs in the SLC2A2 (GLUT2) and ABCC8 (SUR1) genes on the risk of developing type 2 diabetes. **Physiol Genomics** 2007;31:264-272.
 120. Borodulin K, Laatikainen T, Lahti-Koski M, Jousilahti P, Lakka TA. Association of age and education with different types of leisure time physical activity among 4437 Finnish adults. **J Phys Act Health** 2008;5:242-251.
 121. Waden J, Forsblom C, Thorn LM, Saraheimo M, Rosengard-Barlund M, Heikkila O, Lakka TA, Tikkanen H, Groop PH, the FinnDiane Study Group. Physical activity and diabetes complications in patients with type 1 diabetes: the Finnish Diabetic Nephropathy (FinnDiane) Study. **Diabetes Care** 2008;31:230-232.
 122. Kilpeläinen TO, Lakka TA, Laaksonen DE, Lindström J, Eriksson JG, Valle TT, Hääläinen H, Ilanne-Parikka P, Keinänen-Kiukaanniemi S, Lindi V, Tuomilehto J, Uusitupa M, Laakso M. SNPs in PPARG associate with type 2 diabetes and interact with physical activity. **Med Sci Sports Exerc** 2008;40:25-33.
 123. Kilpeläinen TO, Lakka TA, Laaksonen DE, Mager U, Salopuro T, Kubaszek A, Todorova B, Laukkanen O, Lindström J, Eriksson JG, Hääläinen H, Aunola S, Ilanne-Parikka P, Keinänen-Kiukaanniemi S, Tuomilehto J, Laakso M, Uusitupa M; Finnish Diabetes Prevention Study Group. Interaction of single nucleotide polymorphisms in ADRB2, ADRB3, TNF, IL6, IGF1R, LIPC, LEPR, and GHRL with physical activity on the risk of type 2 diabetes and changes in characteristics of the metabolic syndrome. The Finnish Diabetes Prevention Study. **Metabolism** 2008;57:428-436.
 124. Savonen KP, Lakka TA, Laukkanen JA, Rauramaa TH, Salonen JT, Rauramaa R. Usefulness of chronotropic incompetence in response to exercise as a predictor of myocardial infarction in middle-aged men without cardiovascular disease. **Am J Cardiol** 2008;101:992-998.
 125. Hassinen M, Lakka TA, Savonen KP, Litmanen H, Kiviah L, Laaksonen DE, Komulainen P, Rauramaa R. Cardiorespiratory fitness as a feature of the metabolic syndrome in older men

- and women: The DR's EXTRA Study. **Diabetes Care** 2008;31:1242-1247.
126. Savonen KP, Kiviniemi V, Laukkanen JA, Lakka TA, Rauramaa TH, Salonen JT, Rauramaa R. Chronotropic incompetence and mortality in middle-aged men with known or suspected coronary heart disease. **Eur Heart J** 2008; 29:1896-1902.
127. Mäkinen V-P, Forsblom C, Thorn LM, Waden J, Gordin D, Heikkilä O, Hietala K, Kyllönen L, Kytö J, Rosengård-Bärlund M, Saraheimo M, Tolonen N, Parkkonen M, Kaski K, Ala-Korpela M, Groop P-H; FinnDiane Study Group (Lakka TA as a collaborator). Metabolic phenotypes, vascular complications, and premature deaths in a population of 4,197 patients with type 1 diabetes. **Diabetes** 2008;57:2480–2487.
128. Saraheimo M, Forsblom C, Thorn L, Waden J, Gordin D, Heikkilä O, Hietala K, Kyllönen L, Kytö J, Rosengård-Bärlund M, Saraheimo M, Tolonen N, Parkkonen M, Kaski K, Ala-Korpela M, Groop P-H (Lakka TA as a collaborator). Serum adiponectin and progression of diabetic nephropathy in patients with type 1 diabetes. **Diabetes Care** 2008;31:1165-1169.
129. Laaksonen DE, Niskanen L, Nyysönen K, Lakka TA, Laukkanen J, Salonen JT. Dyslipidaemia as a predictor of hypertension in middle-aged men. **Eur Heart J** 2008;29:2561-2568.
130. Savonen KP, Lakka TA, Laukkanen JA, Rauramaa TH, Salonen JT, Rauramaa R. Workload at the heart rate of 100 beats/min and mortality in middle-aged men with known or suspected coronary heart disease. **Heart** 2008;94:e14.
131. Komulainen P, Pedersen M, Hänninen T, Bruunsgaard H, Lakka TA, Kivipelto M, Hassinen M, Rauramaa TH, Pedersen B, Rauramaa R. BDNF is a novel marker of cognitive function in ageing women: The DR's EXTRA Study. **Neurobiol Learn Mem** 2008;90:596-603.
132. Hu G, Lakka TA, Tuomilehto J. Physical activity, fitness and prevention of type 2 diabetes. In: Lee I-M, Blair S, Manson JA, Paffenbarger R Jr. (eds). **Physical Activity and Health: Epidemiologic Methods and Studies**. Oxford University Press 2008.
133. Hu G, Lakka TA, Barengo NC, Tuomilehto J. Exercise and type 2 diabetes prevention. In: Frank Columbus (eds). **Exercise and Health Research**, Nova Science Publishers 2008.
134. Hu, G, Lakka TA, Lakka HM, Tuomilehto J. Overweight, physical inactivity, insulin resistance, impaired glucose tolerance, diabetes and cardiovascular risk. In: Craham IM (eds). **Therapeutic Strategies: Cardiovascular Risk**. Clinical Publishing Ltd. 2008.
135. Laukkanen JA, Laaksonen D, Lakka TA, Savonen K, Rauramaa R, Mäkipallio T, Kurl S. Determinants of cardiorespiratory fitness in men aged 42 to 60 years with and without cardiovascular disease. **Am J Cardiol** 2009;103:1598-1604.
136. Valtonen M, Laaksonen DE, Laukkanen JA, Tolmunen T, Rauramaa R, Viinamäki H, Kauhanen J, Lakka TA, Niskanen L. Leisure time physical activity, cardiorespiratory fitness and feelings of hopelessness in men. **BMC Public Health** 2009;9:24.
137. Tolonen N, Forsblom C, Thorn L, Wadén J, Rosengård-Bärlund M, Saraheimo M, Feodoroff M, Mäkinen VP, Gordin D, Taskinen MR, Groop PH (Lakka TA as a collaborator). Lipid abnormalities predict progression of renal disease in patients with type 1 diabetes. FinnDiane Study Group. **Diabetologia** 2009;52:2522-2530.
138. Valtonen M, Laaksonen DE, Laukkanen J, Tolmunen T, Rauramaa R, Viinamäki H, Mursu J, Savonen K, Lakka TA, Niskanen L, Kauhanen J. Sedentary lifestyle and emergence of hopelessness in middle-aged men. **Eur J Cardiovasc Prev Rehabil** 2010;17:524-529.

139. Kilpeläinen TO, Laaksonen DE, Lakka TA, Herder C, Koenig W, Lindström J, Eriksson JG, Uusitupa M, Kolb H, Laakso M, Tuomilehto J. The rs1800629 polymorphism in the TNF gene interacts with physical activity on the changes in C-reactive protein levels in the Finnish Diabetes Prevention Study. **Exp Clin Endocrinol Diab** **2010**;118:757-759.
140. Ilanne-Parikka P, Laaksonen DE, Eriksson JG, Lakka TA, Lindström J, Peltonen M, Aunola S, Keinänen-Kiukaanniemi S, Uusitupa M, Tuomilehto J. Leisure-time physical activity and the metabolic syndrome in the Finnish Diabetes Prevention Study. **Diabetes Care** **2010**;33:1610-1617.
141. Hassinen M, Lakka TA, Hakola L, Savonen K, Komulainen P, Litmanen H, Kiviniemi V, Kouki R, Heikkilä H, Rauramaa R. Cardiorespiratory fitness and metabolic syndrome in aging men and women: The DR's EXTRA Study. **Diabetes Care** **2010**;33:1655-1657.
142. Baldassarre D, Nyssönen K, Rauramaa R, de Faire U, Hamsten A, Smit AJ, Mannarino E, Humphries SE, Giral G, Grossi E, Veglia F, Paoletti R, Tremoli E, on behalf of the IMPROVE study group (Lakka TA as a collaborator). Cross-sectional analysis of baseline data to identify the major determinants of carotid intima-media thickness in a European population: the IMPROVE study. **Eur Heart J** **2010**;31:614-622.
143. Ahola AJ, Thorn LM, Saraheimo M, Forsblom C, Groop PH; Finndiane Study Group (Lakka TA as a collaborator). Depression is associated with the metabolic syndrome among patients with type 1 diabetes. **Ann Med** **2010**;42:495-501.
144. Hakola L, Lakka TA, Savonen K, Hassinen M, Komulainen P, Litmanen H, Rauramaa R. Cardiorespiratory fitness in aging men and women. The DR's EXTRA Study. **Scand J Med Sci Sports** **2010**;21:679-687.
145. Veijalainen A, Tompuri T, Lakka H-M, Laitinen T, Lakka TA. Reproducibility of pulse contour analysis in children before and after maximal exercise stress test: The Physical Activity and Nutrition in Children (PANIC) Study. **Clin Physiol Funct Imaging** **2011**;31:132-138.
146. Kouki R, Schwab U, Hassinen M, Komulainen P, Heikkilä H, Lakka TA, Rauramaa R. Food consumption, nutrient intake and the risk of having metabolic syndrome: the DR's EXTRA Study. **Eur J Clin Nutr** **2011**;65:368-377. doi: 10.1038/ejcn.2010.262.
147. Eloranta AM, Lindi V, Schwab U, Kiiskinen S, Kalinkin M, Lakka HM, Lakka TA. Dietary factors and their associations with socioeconomic background in Finnish girls and boys 6-8 years of age: the PANIC Study. **Eur J Clin Nutr** **2011**;65:1211-1218.
148. Sanna S, Li B, Mulas A, Sidore C, Kang HM, Jackson AU, Piras MG, Usala G, Maninchetta G, Sassu A, Serra F, Palmas MA, Wood WH 3rd, Njølstad I, Laakso M, Hveem K, Tuomilehto J, Lakka TA, Rauramaa R, Boehnke M, Cucca F, Uda M, Schlessinger D, Nagaraja R, Abecasis GR. Fine mapping of five Loci associated with low-density lipoprotein cholesterol detects variants that double the explained heritability. **PLoS Genet** **2011**;7:e1002198.
149. Savonen KP, Kiviniemi V, Laaksonen DE, Lakka TA, Laukkonen JA, Tuomainen TP, Rauramaa R. Two-minute heart rate recovery after cycle ergometer exercise and all-cause mortality in middle-aged men. **J Intern Med** **2011**;270:589-596.
150. Wessman M, Forsblom C, Kaunisto MA, Söderlund J, Ilonen J, Sallinen R, Hiekkalinna T, Parkkonen M, Maxwell AP, Tarnow L, Parving HH, Hadjadj S, Marre M, Peltonen L, Groop PH; FinnDiane Study Group. Novel susceptibility locus at 22q11 for diabetic nephropathy in type 1 diabetes. **PLoS One** **2011**;6:e24053.

151. Lithovius R, Harjutsalo V, Forsblom C, Groop PH; FinnDiane Study Group (Lakka TA as a collaborator). Cumulative cost of prescription medication in outpatients with type 1 diabetes in Finland. **Diabetologia** 2011;54:496-503.
152. Kilpeläinen TO, Qi L, Brage S, Sharp SJ, Sonestedt E, Demerath E, Ahmad T, Mora S, Kaakinen M, Sandholt CH, Holzapfel C, Autenrieth CS, Hyppönen E, Cauchi S, He M, Katalik Z, Kumari M, Stančáková A, Meidner K, Balkau B, Tan JT, Mangino M, Timpson NJ, Song Y, Zillikens MC, Jablonski KA, Garcia ME, Johansson S, Bragg-Gresham JL, Wu Y, van Vliet-Ostaptchouk JV, Onland-Moret NC, Zimmermann E, Rivera NV, Tanaka T, Stringham HM, Silbernagel G, Kanoni S, Feitosa MF, Snitker S, Ruiz JR, Metter J, Larrad MT, Atalay M, Hakanen M, Amin N, Cavalcanti-Proença C, Grøntved A, Hallmans G, Jansson JO, Kuusisto J, Kähönen M, Lutsey PL, Nolan JJ, Palla L, Pedersen O, Pérusse L, Renström F, Scott RA, Shungin D, Sovio U, Tammelin TH, Rönnemaa T, Lakka TA, Uusitupa M, Rios MS, Ferrucci L, Bouchard C, Meirhaeghe A, Fu M, Walker M, Borecki IB, Dedoussis GV, Fritzsche A, Ohlsson C, Boehnke M, Bandinelli S, van Duijn CM, Ebrahim S, Lawlor DA, Gudnason V, Harris TB, Sørensen TI, Mohlke KL, Hofman A, Uitterlinden AG, Tuomilehto J, Lehtimäki T, Raitakari O, Isomaa B, Njølstad PR, Florez JC, Liu S, Ness A, Spector TD, Tai ES, Froguel P, Boeing H, Laakso M, Marmot M, Bergmann S, Power C, Khaw KT, Chasman D, Ridker P, Hansen T, Monda KL, Illig T, Järvelin MR, Wareham NJ, Hu FB, Groop LC, Orho-Melander M, Ekelund U, Franks PW, Loos RJ. Physical activity attenuates the influence of FTO variants on obesity risk; a meta-analysis of 218,166 adults and 19,268 children. **PLoS Med** 2011;8:1001-1116.
153. Kouki R, Schwab U, Lakka TA, Hassinen M, Savonen K, Komulainen P, Krachler B, Rauramaa R. Diet, fitness and metabolic syndrome - The DR's EXTRA Study. **Nutr Metab Cardiovasc Dis** 2012;22:553-560.
154. Vierola A, Suominen AL, Ilkävalko T, Lintu N, Lindi V, Lakka HM, Kellokoski J, Närhi M, Lakka TA. Clinical signs of temporomandibular disorders and various pain conditions among children 6 to 8 years of age: The PANIC Study. **J Orofac Pain** 2012;26:17-25.
155. Savonen KP, Krachler B, Hassinen M, Komulainen P, Kiviniemi V, Lakka TA, Rauramaa R. The current standard measure of cardiorespiratory fitness introduces confounding by body mass: The DR's EXTRA Study. **Int J Obes** 2012;36:1135-1140.
156. Ahola AJ, Harjutsalo V, Saraheimo M, Forsblom C, Groop PH; FinnDiane Study Group (Lakka TA as a collaborator). Purchase of antidepressant agents by patients with type 1 diabetes is associated with increased mortality rates in women but not in men. **Diabetologia** 2012;55:73-79.
157. Eloranta AM, Lindi V, Schwab U, Tompuri T, Kiiskinen S, Lakka HM, Laitinen T, Lakka TA. Dietary factors associated with overweight and body adiposity in Finnish children aged 6-8 years: The PANIC Study. **Int J Obes** 2012;36:950-955.
158. Viitasalo A, Laaksonen DE, Lindi V, Eloranta AM, Jääskeläinen J, Tompuri T, Väisänen S, Lakka HM, Lakka TA. Clustering of metabolic risk factors is associated with high-normal levels of liver enzymes among 6- to 8-year-old children: the PANIC study. **Metab Syndr Relat Disord** 2012;10:337-343.
159. Scott RA, Lagou V, Welch RP, Wheeler E, Montasser ME, Luan J, Mägi R, Strawbridge RJ, Rehnberg E, Gustafsson S, Kanoni S, Rasmussen-Torvik LJ, Yengo L, Lecoeur C, Shungin D, Sanna S, Sidore C, Johnson PC, Jukema JW, Johnson T, Mahajan A, Verweij N, Thorleifsson G, Hottenga JJ, Shah S, Smith AV, Sennblad B, Gieger C, Salo P, Perola M, Timpson NJ,

Evans DM, Pourcain BS, Wu Y, Andrews JS, Hui J, Bielak LF, Zhao W, Horikoshi M, Navarro P, Isaacs A, O'Connell JR, Stirrups K, Vitart V, Hayward C, Esko T, Mihailov E, Fraser RM, Fall T, Voight BF, Raychaudhuri S, Chen H, Lindgren CM, Morris AP, Rayner NW, Robertson N, Rybin D, Liu CT, Beckmann JS, Willems SM, Chines PS, Jackson AU, Kang HM, Stringham HM, Song K, Tanaka T, Peden JF, Goel A, Hicks AA, An P, Müller-Nurasyid M, Franco-Cereceda A, Folkersen L, Marullo L, Jansen H, Oldehinkel AJ, Bruinenberg M, Pankow JS, North KE, Forouhi NG, Loos RJ, Edkins S, Varga TV, Hallmans G, Oksa H, Antonella M, Nagaraja R, Trompet S, Ford I, Bakker SJ, Kong A, Kumari M, Gigante B, Herder C, Munroe PB, Caulfield M, Antti J, Mangino M, Small K, Miljkovic I, Liu Y, Atalay M, Kiess W, James AL, Rivadeneira F, Uitterlinden AG, Palmer CN, Doney AS, Willemsen G, Smit JH, Campbell S, Polasek O, Bonnycastle LL, Hercberg S, Dimitriou M, Bolton JL, Fowkes GR, Kovacs P, Lindström J, Zemunik T, Bandinelli S, Wild SH, Basart HV, Rathmann W, Grallert H; DIAbetes Genetics Replication and Meta-analysis (DIAGRAM) Consortium, Maerz W, Kleber ME, Boehm BO, Peters A, Pramstaller PP, Province MA, Borecki IB, Hastie ND, Rudan I, Campbell H, Watkins H, Farrall M, Stumvoll M, Ferrucci L, Waterworth DM, Bergman RN, Collins FS, Tuomilehto J, Watanabe RM, de Geus EJ, Penninx BW, Hofman A, Oostra BA, Psaty BM, Vollenweider P, Wilson JF, Wright AF, Hovingh GK, Metspalu A, Uusitupa M, Magnusson PK, Kyvik KO, Kaprio J, Price JF, Dedoussis GV, Deloukas P, Meneton P, Lind L, Boehnke M, Shuldiner AR, van Duijn CM, Morris AD, Toenjes A, Peyser PA, Beilby JP, Körner A, Kuusisto J, Laakso M, Bornstein SR, Schwarz PE, Lakka TA, Rauramaa R, Adair LS, Smith GD, Spector TD, Illig T, de Faire U, Hamsten A, Gudnason V, Kivimaki M, Hingorani A, Keinanen-Kiukaanniemi SM, Saaristo TE, Boomsma DI, Stefansson K, van der Harst P, Dupuis J, Pedersen NL, Sattar N, Harris TB, Cucca F, Ripatti S, Salomaa V, Mohlke KL, Balkau B, Froguel P, Pouta A, Jarvelin MR, Wareham NJ, Bouatia-Naji N, McCarthy MI, Franks PW, Meigs JB, Teslovich TM, Florez JC, Langenberg C, Ingelsson E, Prokopenko I, Barroso I. Large-scale association analyses identify new loci influencing glycemic traits and provide insight into the underlying biological pathways. **Nat Genet** 2012;44:991-1005.

160. Morris AP, Voight BF, Teslovich TM, Ferreira T, Segre AV, Steinhorsdottir V, Strawbridge RJ, Khan H, Grallert H, Mahajan A, Prokopenko I, Kang HM, Dina C, Esko T, Fraser RM, Kanoni S, Kumar A, Lagou V, Langenberg C, Luan J, Lindgren CM, Müller- Nurasyid M, Pechlivanis S, Rayner NW, Scott LJ, Wiltshire S, Yengo L, Kinnunen L, Rossin EJ, Raychaudhuri S, Johnson AD, Dimas AS, Loos RJ, Vedantam S, Chen H, Florez JC, Fox C, Liu CT, Rybin D, Couper DJ, Kao WH, Li M, Cornelis MC, Kraft P, Sun Q, van Dam RM, Stringham HM, Chines PS, Fischer K, Fontanillas P, Holmen OL, Hunt SE, Jackson AU, Kong A, Lawrence R, Meyer J, Perry JR, Platou CG, Potter S, Rehnberg E, Robertson N, Sivapalaratnam S, Stančáková A, Stirrups K, Thorleifsson G, Tikkanen E, Wood AR, Almgren P, Atalay M, Benediktsson R, Bonnycastle LL, Burtt N, Carey J, Charpentier G, Crenshaw AT, Doney AS, Dorkhan M, Edkins S, Emilsson V, Eury E, Forsen T, Gertow K, Gigante B, Grant GB, Groves CJ, Guiducci C, Herder C, Hreidarsson AB, Hui J, James A, Jonsson A, Rathmann W, Klopp N, Kravic J, Krjutškov K, Langford C, Leander K, Lindholm E, Lobbens S, Männistö S, Mirza G, Mühlleisen TW, Musk B, Parkin M, Rallidis L, Saramies J, Sennblad B, Shah S, Sigurðsson G, Silveira A, Steinbach G, Thorand B, Trakalo J, Veglia F, Wennauer R, Winckler W, Zabaneh D, Campbell H, van Duijn C, Uitterlinden AG, Hofman A, Sijbrands E, Abecasis GR, Owen KR, Zeggini E, Trip MD, Forouhi NG, Syvänen AC, Eriksson JG, Peltonen L, Nöthen MM, Balkau B, Palmer CN, Lyssenko V, Tuomi T, Isomaa B, Hunter DJ, Qi L; Wellcome Trust Case Control Consortium; Meta-Analyses of Glucose and Insulin-related traits Consortium (MAGIC) Investigators; Genetic Investigation of ANthropometric Traits (GIANT) Consortium; Asian Genetic Epidemiology Network-Type 2 Diabetes (AGEN-T2D)

- Consortium; South Asian Type 2 Diabetes (SAT2D) Consortium, Shuldiner AR, Roden M, Barroso I, Wilsgaard T, Beilby J, Hovingh K, Price JF, Wilson JF, Rauramaa R, Lakka TA, Lind L, Dedoussis G, Njølstad I, Pedersen NL, Khaw KT, Wareham NJ, Keinanen-Kiukaanniemi SM, Saaristo TE, Korpi-Hyövälti E, Saltevo J, Laakso M, Kuusisto J, Metspalu A, Collins FS, Mohlke KL, Bergman RN, Tuomilehto J, Boehm BO, Gieger C, Hveem K, Cauchi S, Froguel P, Baldassarre D, Tremoli E, Humphries SE, Saleheen D, Danesh J, Ingelsson E, Ripatti S, Salomaa V, Erbel R, Jöckel KH, Moebus S, Peters A, Illig T, de Faire U, Hamsten A, Morris AD, Donnelly PJ, Frayling TM, Hattersley AT, Boerwinkle E, Melander O, Kathiresan S, Nilsson PM, Deloukas P, Thorsteinsdottir U, Groop LC, Stefansson K, Hu F, Pankow JS, Dupuis J, Meigs JB, Altshuler D, Boehnke M, McCarthy MI; DIAbetes Genetics Replication And Meta-analysis (DIAGRAM) Consortium. Large-scale association analysis provides insights into the genetic architecture and pathophysiology of type 2 diabetes. **Nat Genet** 2012;44:981-990.
161. Manning AK, Hivert MF, Scott RA, Grimsby JL, Bouatia-Naji N, Chen H, Rybin D, Liu CT, Bielak LF, Prokopenko I, Amin N, Barnes D, Cadby G, Hottenga JJ, Ingelsson E, Jackson AU, Johnson T, Kanoni S, Ladenvall C, Lagou V, Lahti J, Lecoeur C, Liu Y, Martinez-Larrad MT, Montasser ME, Navarro P, Perry JR, Rasmussen-Torvik LJ, Salo P, Sattar N, Shungin D, Strawbridge RJ, Tanaka T, van Duijn CM, An P, de Andrade M, Andrews JS, Aspelund T, Atalay M, Aulchenko Y, Balkau B, Bandinelli S, Beckmann JS, Beilby JP, Bellis C, Bergman RN, Blangero J, Boban M, Boehnke M, Boerwinkle E, Bonnycastle LL, Boomsma DI, Borecki IB, Böttcher Y, Bouchard C, Brunner E, Budimir D, Campbell H, Carlson O, Chines PS, Clarke R, Collins FS, Corbatón-Anchuelo A, Couper D, de Faire U, Dedoussis GV, Deloukas P, Dimitriou M, Egan JM, Eiriksdottir G, Erdos MR, Eriksson JG, Eury E, Ferrucci L, Ford I, Forouhi NG, Fox CS, Franzosi MG, Franks PW, Frayling TM, Froguel P, Galan P, de Geus E, Gigante B, Glazer NL, Goel A, Groop L, Gudnason V, Hallmans G, Hamsten A, Hansson O, Harris TB, Hayward C, Heath S, Hercberg S, Hicks AA, Hingorani A, Hofman A, Hui J, Hung J, Jarvelin MR, Jhun MA, Johnson PC, Jukema JW, Jula A, Kao WH, Kaprio J, Kardia SL, Keinanen-Kiukaanniemi S, Kivimaki M, Kolcic I, Kovacs P, Kumari M, Kuusisto J, Kyvik KO, Laakso M, Lakka TA, Lannfelt L, Lathrop GM, Launer LJ, Leander K, Li G, Lind L, Lindstrom J, Lobbens S, Loos RJ, Luan J, Lyssenko V, Mägi R, Magnusson PK, Marmot M, Meneton P, Mohlke KL, Mooser V, Morken MA, Miljkovic I, Narisu N, O'Connell J, Ong KK, Oostra BA, Palmer LJ, Palotie A, Pankow JS, Peden JF, Pedersen NL, Pehlic M, Peltonen L, Penninx B, Pericic M, Perola M, Perusse L, Peyser PA, Polasek O, Pramstaller PP, Province MA, Räikkönen K, Rauramaa R, Rehnberg E, Rice K, Rotter JI, Rudan I, Ruokonen A, Saaristo T, Sabater-Lleal M, Salomaa V, Savage DB, Saxena R, Schwarz P, Seedorf U, Sennblad B, Serrano-Rios M, Shuldiner AR, Sijbrands EJ, Siscovick DS, Smit JH, Small KS, Smith NL, Smith AV, Stančáková A, Stirrups K, Stumvoll M, Sun YY, Swift AJ, Tönjes A, Tuomilehto J, Trompet S, Uitterlinden AG, Uusitupa M, Vikström M, Vitart V, Vohl MC, Voight BF, Vollenweider P, Waeber G, Waterworth DM, Watkins H, Wheeler E, Widen E, Wild SH, Willems SM, Willemsen G, Wilson JF, Witteman JC, Wright AF, Yaghootkar H, Zelenika D, Zemunik T, Zgaga L; DIAbetes Genetics Replication And Meta-analysis (DIAGRAM) Consortium; Multiple Tissue Human Expression Resource (MUTHER) Consortium, Wareham NJ, McCarthy MI, Barroso I, Watanabe RM, Florez JC, Dupuis J, Meigs JB, Langenberg C. A genome-wide approach accounting for body mass index identifies genetic variants influencing fasting glycemic traits and insulin resistance. **Nat Genet** 2012;44:659-669.
162. Valtonen MK, Laaksonen DE, Laukkonen JA, Tolmunen T, Viinamäki H, Lakka HM, Lakka TA, Niskanen L, Kauhanen J. Low-grade inflammation and depressive symptoms as predictors

- of abdominal obesity. **Scand J Public Health** 2012;40:674-680.
163. Ikävalko T, Tuomilehto H, Pahkala R, Tompuri T, Laitinen T, Myllykangas R, Vierola A, Lindi V, Närhi M, Lakka TA. Craniofacial morphology but not excess body fat is associated with risk of having sleep-disordered breathing-The PANIC Study (a questionnaire-based inquiry in 6-8-year-olds). **Eur J Pediatr** 2012;171:1747-1752.
164. Taal HR, St Pourcain B, Thiering E, Das S, Mook-Kanamori DO, Warrington NM, Kaakinen M, Kreiner-Møller E, Bradfield JP, Freathy RM, Geller F, Guxens M, Cousminer DL, Kerkhof M, Timpson NJ, Ikram MA, Beilin LJ, Bønnelykke K, Buxton JL, Charoen P, Chawes BL, Eriksson J, Evans DM, Hofman A, Kemp JP, Kim CE, Klopp N, Lahti J, Lye SJ, McMahon G, Mentch FD, Müller-Nurasyid M, O'Reilly PF, Prokopenko I, Rivadeneira F, Steegers EA, Sunyer J, Tiesler C, Yaghootkar H; Cohorts for Heart and Aging Research in Genetic Epidemiology Consortium, Breteler MM, Decarli C, Breteler MM, Debette S, Fornage M, Gudnason V, Launer LJ, van der Lugt A, Mosley TH Jr, Seshadri S, Smith AV, Vernooij MW; Early Genetics & Lifecourse Epidemiology Consortium, Blakemore AI, Chiavacci RM, Feenstra B, Fernandez-Banet J, Grant SF, Hartikainen AL, van der Heijden AJ, Iñiguez C, Lathrop M, McArdle WL, Mølgaard A, Newham JP, Palmer LJ, Palotie A, Pouta A, Ring SM, Sovio U, Standl M, Uitterlinden AG, Wichmann HE, Vissing NH, DeCarli C, van Duijn CM, McCarthy MI, Koppelman GH, Estivill X, Hattersley AT, Melbye M, Bisgaard H, Pennell CE, Widen E, Hakonarson H, Smith GD, Heinrich J, Jarvelin MR, Jaddoe VW; Early Growth Genetics Consortium (Lakka TA as a collaborator). Common variants at 12q15 and 12q24 are associated with infant head circumference. **Nat Genet** 2012;44:532-538.
165. Ikram MA, Fornage M, Smith AV, Seshadri S, Schmidt R, Debette S, Vrooman HA, Sigurdsson S, Ropele S, Taal HR, Mook-Kanamori DO, Coker LH, Longstreth WT Jr, Niessen WJ, DeStefano AL, Beiser A, Zijdenbos AP, Struchalin M, Jack CR Jr, Rivadeneira F, Uitterlinden AG, Knopman DS, Hartikainen AL, Pennell CE, Thiering E, Steegers EA, Hakonarson H, Heinrich J, Palmer LJ, Jarvelin MR, McCarthy MI, Grant SF, St Pourcain B, Timpson NJ, Smith GD, Sovio U; Early Growth Genetics Consortium, Nalls MA, Au R, Hofman A, Gudnason H, van der Lugt A, Harris TB, Meeks WM, Vernooij MW, van Buchem MA, Catellier D, Jaddoe VW, Gudnason V, Windham BG, Wolf PA, van Duijn CM, Mosley TH Jr, Schmidt H, Launer LJ, Breteler MM, DeCarli C; Cohorts for Heart and Aging Research in Genomic Epidemiology Consortium (Lakka TA as a collaborator). Common variants at 6q22 and 17q21 are associated with intracranial volume. **Nat Genet** 2012;44:539-544.
166. Bradfield JP, Taal HR, Timpson NJ, Scherag A, Lecoeur C, Warrington NM, Hypponen E, Holst C, Valcarcel B, Thiering E, Salem RM, Schumacher FR, Cousminer DL, Sleiman PM, Zhao J, Berkowitz RI, Vimaleswaran KS, Jarick I, Pennell CE, Evans DM, St Pourcain B, Berry DJ, Mook-Kanamori DO, Hofman A, Rivadeneira F, Uitterlinden AG, van Duijn CM, van der Valk RJ, de Jongste JC, Postma DS, Boomsma DI, Gauderman WJ, Hassanein MT, Lindgren CM, Mägi R, Boreham CA, Neville CE, Moreno LA, Elliott P, Pouta A, Hartikainen AL, Li M, Raitakari O, Lehtimäki T, Eriksson JG, Palotie A, Dallongeville J, Das S, Deloukas P, McMahon G, Ring SM, Kemp JP, Buxton JL, Blakemore AI, Bustamante M, Guxens M, Hirschhorn JN, Gillman MW, Kreiner-Møller E, Bisgaard H, Gilliland FD, Heinrich J, Wheeler E, Barroso I, O'Rahilly S, Meirhaeghe A, Sørensen TI, Power C, Palmer LJ, Hinney A, Widen E, Farooqi IS, McCarthy MI, Froguel P, Meyre D, Hebebrand J, Jarvelin MR, Jaddoe VW, Smith GD, Hakonarson H, Grant SF; Early Growth Genetics Consortium (Lakka TA as a collaborator). A genome-wide association meta-analysis identifies new childhood obesity loci. **Nat Genet** 2012;44:526-531.
167. Juhakoski R, Malmivaara A, Lakka TA, Tenhonen S, Hannila ML, Arokoski JP. Determinants

- of pain and functioning in hip osteoarthritis - a two-year prospective study. **Clin Rehabil** **2013**;27:281-7.
168. Horikoshi M, Yaghootkar H, Mook-Kanamori DO, Sovio U, Taal HR, Hennig BJ, Bradfield JP, St Pourcain B, Evans DM, Charoen P, Kaakinen M, Cousminer DL, Lehtimäki T, Kreiner-Møller E, Warrington NM, Bustamante M, Feenstra B, Berry DJ, Thiering E, Pfab T, Barton SJ, Shields BM, Kerkhof M, van Leeuwen EM, Fulford AJ, Katalik Z, Zhao JH, den Hoed M, Mahajan A, Lindi V, Goh LK, Hottenga JJ, Wu Y, Raitakari OT, Harder MN, Meirhaeghe A, Ntalla I, Salem RM, Jameson KA, Zhou K, Monies DM, Lagou V, Kirin M, Heikkinen J, Adair LS, Alkuraya FS, Al-Odaib A, Amouyel P, Andersson EA, Bennett AJ, Blakemore AI, Buxton JL, Dallongeville J, Das S, de Geus EJ, Estivill X, Flexeder C, Froguel P, Geller F, Godfrey KM, Gottrand F, Groves CJ, Hansen T, Hirschhorn JN, Hofman A, Hollegaard MV, Hougaard DM, Hyppönen E, Inskip HM, Isaacs A, Jørgensen T, Kanaka-Gantenbein C, Kemp JP, Kiess W, Kilpeläinen TO, Klopp N, Knight BA, Kuzawa CW, McMahon G, Newnham JP, Niinikoski H, Oostra BA, Pedersen L, Postma DS, Ring SM, Rivadeneira F, Robertson NR, Sebert S, Simell O, Slowinski T, Tiesler CM, Tönjes A, Vaag A, Viikari JS, Vink JM, Vissing NH, Wareham NJ, Willemse G, Witte DR, Zhang H, Zhao J; Meta-Analyses of Glucose- and Insulin-related traits Consortium (MAGIC), Wilson JF, Stumvoll M, Prentice AM, Meyer BF, Pearson ER, Boreham CA, Cooper C, Gillman MW, Dedoussis GV, Moreno LA, Pedersen O, Saarinen M, Mohlke KL, Boomsma DI, Saw SM, Lakka TA, Körner A, Loos RJ, Ong KK, Vollenweider P, van Duijn CM, Koppelman GH, Hattersley AT, Holloway JW, Hocher B, Heinrich J, Power C, Melbye M, Guxens M, Pennell CE, Bønnelykke K, Bisgaard H, Eriksson JG, Widén E, Hakonarson H, Uitterlinden AG, Pouta A, Lawlor DA, Smith GD, Frayling TM, McCarthy MI, Grant SF, Jaddoe VW, Jarvelin MR, Timpson NJ, Prokopenko I, Freathy RM; Early Growth Genetics (EGG) Consortium. New loci associated with birth weight reveal genetic links between intrauterine growth and adult height and metabolism. **Nat Genet** **2013**;45:76-82.
169. Cousminer DL, Berry DJ, Timpson NJ, Ang W, Thiering E, Byrne EM, Taal HR, Huikari V, Bradfield JP, Kerkhof M, Groen-Blokhuis MM, Kreiner-Møller E, Marinelli M, Holst C, Leinonen JT, Perry JRB, Surakka I, Pietiläinen O, Kettunen J, Anttila V, Kaakinen M, Sovio U, Pouta A, Das S, Lagou V, Power C, Prokopenko I, Evans DM, Kemp JP, St Pourcain B, Ring S, Palotie A, Kajantie E, Osmond C, Lehtimaki T, Viikari JS, Kahonen M, Warrington NM, Lye SJ, Palmer LJ, Tiesler CMT, Flexeder C, Montgomery GW, Medland SE, Hofman A, Hakonarson H, Guxens M, Bartels M, Salomaa V, Murabito JM, Kaprio J, Sorensen TIA, Ballester F, Bisgaard H, Boomsma DI, Koppelman GH, Grant SFA, Jaddoe VW V, Martin NG, Heinrich J, Pennell CE, Raitakari OT, Eriksson JG, Smith GD, Hypponen E, Jarvelin M-R, McCarthy MI, Ripatti S, Widen E; Early Growth Genetics (EGG) Consortium (Lakka TA as a collaborator). Genome-wide association and longitudinal analyses reveal genetic loci linking pubertal height growth, pubertal timing and childhood adiposity. **Hum Mol Genet** **2013**;22:2735–2747.
170. Veijalainen A, Tompuri T, Laitinen T, Lintu N, Viitasalo A, Laaksonen DE, Jääskeläinen J, Lakka TA. Metabolic risk factors are associated with stiffness index, reflection index and finger skin temperature in children — Physical Activity and Nutrition in Children (PANIC) study. **Circ J** **2013**;77:1281-1288.
171. Berndt SI, Gustafsson S, Mägi R, Ganna A, Wheeler E, Feitosa MF, Justice AE, Monda KL, Croteau-Chonka DC, Day FR, Esko T, Fall T, Ferreira T, Gentilini D, Jackson AU, Luan J, Randall JC, Vedantam S, Willer CJ, Winkler TW, Wood AR, Workalemahu T, Hu YJ, Lee SH, Liang L, Lin DY, Min JL, Neale BM, Thorleifsson G, Yang J, Albrecht E, Amin N, Bragg-

Gresham JL, Cadby G, den Heijer M, Eklund N, Fischer K, Goel A, Hottenga JJ, Huffman JE, Jarick I, Johansson A, Johnson T, Kanoni S, Kleber ME, König IR, Kristiansson K, Kutalik Z, Lamina C, Lecoeur C, Li G, Mangino M, McArdle WL, Medina-Gomez C, Müller-Nurasyid M, Ngwa JS, Nolte IM, Paternoster L, Pechlivanis S, Perola M, Peters MJ, Preuss M, Rose LM, Shi J, Shungin D, Smith AV, Strawbridge RJ, Surakka I, Teumer A, Trip MD, Tyrer J, Van Vliet-Ostaptchouk JV, Vandenput L, Waite LL, Zhao JH, Absher D, Asselbergs FW, Atalay M, Attwood AP, Balmforth AJ, Basart H, Beilby J, Bonnycastle LL, Brambilla P, Bruinenberg M, Campbell H, Chasman DI, Chines PS, Collins FS, Connell JM, Cookson WO, de Faire U, de Vegt F, Dei M, Dimitriou M, Edkins S, Estrada K, Evans DM, Farrall M, Ferrario MM, Ferrières J, Franke L, Frau F, Gejman PV, Grallert H, Grönberg H, Gudnason V, Hall AS, Hall P, Hartikainen AL, Hayward C, Heard-Costa NL, Heath AC, Hebebrand J, Homuth G, Hu FB, Hunt SE, Hyppönen E, Iribarren C, Jacobs KB, Jansson JO, Jula A, Kähönen M, Kathiresan S, Kee F, Khaw KT, Kivimäki M, Koenig W, Kraja AT, Kumari M, Kuulasmaa K, Kuusisto J, Laitinen JH, Lakka TA, Langenberg C, Launer LJ, Lind L, Lindström J, Liu J, Liuzzi A, Lokki ML, Lorentzon M, Madden PA, Magnusson PK, Manunta P, Marek D, März W, Leach IM, McKnight B, Medland SE, Mihailov E, Milani L, Montgomery GW, Mooser V, Mühlleisen TW, Munroe PB, Musk AW, Narisu N, Navis G, Nicholson G, Nohr EA, Ong KK, Oostra BA, Palmer CN, Palotie A, Peden JF, Pedersen N, Peters A, Polasek O, Pouta A, Pramstaller PP, Prokopenko I, Pütter C, Radhakrishnan A, Raitakari O, Rendon A, Rivadeneira F, Rudan I, Saaristo TE, Sambrook JG, Sanders AR, Sanna S, Saramies J, Schipf S, Schreiber S, Schunkert H, Shin SY, Signorini S, Sinisalo J, Skrobek B, Soranzo N, Stančáková A, Stark K, Stephens JC, Stirrups K, Stolk RP, Stumvoll M, Swift AJ, Theodoraki EV, Thorand B, Tregouet DA, Tremoli E, Van der Klauw MM, van Meurs JB, Vermeulen SH, Viikari J, Virtamo J, Vitart V, Waeber G, Wang Z, Widén E, Wild SH, Willemse G, Winkelmann BR, Witteman JC, Wolffenbuttel BH, Wong A, Wright AF, Zillikens MC, Amouyel P, Boehm BO, Boerwinkle E, Boomsma DI, Caulfield MJ, Chanock SJ, Cupples LA, Cusi D, Dedoussis GV, Erdmann J, Eriksson JG, Franks PW, Froguel P, Gieger C, Gyllensten U, Hamsten A, Harris TB, Hengstenberg C, Hicks AA, Hingorani A, Hinney A, Hofman A, Hovingh KG, Hveem K, Illig T, Jarvelin MR, Jöckel KH, Keinanen-Kiukaanniemi SM, Kiemeneij LA, Kuh D, Laakso M, Lehtimäki T, Levinson DF, Martin NG, Metspalu A, Morris AD, Nieminen MS, Njølstad I, Ohlsson C, Oldehinkel AJ, Ouwehand WH, Palmer LJ, Penninx B, Power C, Province MA, Psaty BM, Qi L, Rauramaa R, Ridker PM, Ripatti S, Salomaa V, Samani NJ, Snieder H, Sørensen TI, Spector TD, Stefansson K, Tönjes A, Tuomilehto J, Uitterlinden AG, Uusitupa M, van der Harst P, Vollenweider P, Wallaschofski H, Wareham NJ, Watkins H, Wichmann HE, Wilson JF, Abecasis GR, Assimes TL, Barroso I, Boehnke M, Borecki IB, Deloukas P, Fox CS, Frayling T, Groop LC, Haritunian T, Heid IM, Hunter D, Kaplan RC, Karpe F, Moffatt MF, Mohlke KL, O'Connell JR, Pawitan Y, Schadt EE, Schlessinger D, Steinhorsdottir V, Strachan DP, Thorsteinsdottir U, van Duijn CM, Visscher PM, Di Blasio AM, Hirschhorn JN, Lindgren CM, Morris AP, Meyre D, Scherag A, McCarthy MI, Speliotes EK, North KE, Loos RJ, Ingelsson E. Genome-wide meta-analysis identifies 11 new loci for anthropometric traits and provides insights into genetic architecture. **Nat Genet** 2013;45:501-512.

172. Wu Y, Waite LL, Jackson AU, Sheu WH, Buyske S, Absher D, Arnett DK, Boerwinkle E, Bonnycastle LL, Carty CL, Cheng I, Cochran B, Croteau-Chonka DC, Dumitrescu L, Eaton CB, Franceschini N, Guo X, Henderson BE, Hindorff LA, Kim E, Kinnunen L, Komulainen P, Lee WJ, Le Marchand L, Lin Y, Lindström J, Lingaas-Holmen O, Mitchell SL, Narisu N, Robinson JG, Schumacher F, Stančáková A, Sundvall J, Sung YJ, Swift AJ, Wang WC, Wilkens L, Wilsgaard T, Young AM, Adair LS, Ballantyne CM, Bůžková P, Chakravarti A, Collins FS, Duggan D, Feranil AB, Ho LT, Hung YJ, Hunt SC, Hveem K, Juang JM,

- Kesäniemi AY, Kuusisto J, Laakso M, Lakka TA, Lee IT, Leppert MF, Matise TC, Moilanen L, Njølstad I, Peters U, Quertermous T, Rauramaa R, Rotter JI, Saramies J, Tuomilehto J, Uusitupa M, Wang TD, Boehnke M, Haiman CA, Chen YD, Kooperberg C, Assimes TL, Crawford DC, Hsiung CA, North KE, Mohlke KL. Trans-ethnic fine-mapping of lipid loci identifies population-specific signals and allelic heterogeneity that increases the trait variance explained. **PLoS Genet** 2013;9:e1003379.
173. Randall JC, Winkler TW, Kutalik Z, Berndt SI, Jackson AU, Monda KL, Kilpeläinen TO, Esko T, Mägi R, Li S, Workalemahu T, Feitosa MF, Croteau-Chonka D, Day FR, Fall T, Ferreira T, Gustafsson S, Locke AE, Mathieson I, Scherag A, Vedantam S, Wood AR, Liang L, Steinhorsdottir V, Thorleifsson G, Dermitzakis ET, Dimas AS, Karpe F, Min JL, Nicholson G, Clegg DJ, Person T, Krohn JP, Bauer S, Buechler C, Eisinger K, Luchner A, Schmid P, DIAGRAM, Bonnefond A, Froguel P, MAGIC, Hottenga JJ, Prokopenko I, Waite LL, Harris TB, Smith AV, Shuldiner AR, McArdle WL, Caulfield MJ, Munroe PB, Grönberg H, Chen YD, Li G, Beckmann JS, Johnson T, Stefansson K, Teder-Laving M, Khaw KT, Wareham NJ, Zhao JH, Amin N, Oostra BA, Kraja AT, Province MA, Cupples LA, Heard-Costa NL, Kaprio J, Ripatti S, Surakka I, Collins FS, Saramies J, Tuomilehto J, Jula A, Salomaa V, Erdmann J, Hengstenberg C, Loley L, Schunkert H, Lamina C, Wichmann HE, Albrecht E, Gieger C, Hicks AA, Johansson Å, Pramstaller PP, Kathiresan S, Speliotes EK, Penninx B, Hartikainen AL, Jarvelin MR, Gyllensten U, Boomsma DI, Campbell H, Wilson JF, Chanock SJ, Farrall M, Goel A, Medina-Gomez C, Rivadeneira F, Estrada K, Uitterlinden AG, Hofman A, Zillikens MC, den Heijer M, Kiemeney LA, Maschio A, Hall P, Tyrer J, Teumer A, Völzke H, Kovacs P, Tönjes A, Mangino M, Spector TD, Hayward C, Rudan I, Hall AS, Samani NJ, Attwood AP, Sambrook JG, Hung J, Palmer LJ, Lokki ML, Inisalo J, Boucher G, Huikuri H, Lorentzon M, Ohlsson C, Eklund N, Eriksson JG, Barlassina C, Rivolta C, Nolte IM, Snieder H, Van der Klauw MM, Van Vliet-Ostaptchouk JV, Gejman PV, Shi J, Jacobs KB, Wang Z, Bakker SJL, Leach IM, Navis G, van der Harst P, Martin NG, Medland SE, Montgomery GW, Yang J, Chasman DI, Ridker PM, Rose LM, Lehtimäki T, Raitakari O, Absher D, Iribarren C, Basart H, Hovingh KG, Hyppönen E, Power C, Anderson D, Beilby JP, Hui J, Jolley J, Sager H, Bornstein SR, Schwarz PEH, Kristiansson K, Perola M, Lindström J, Swift AJ, Uusitupa M, Atalay M, Lakka TA, Rauramaa R, Bolton JL, Fowkes G, Fraser RM, Price JF, Fischer K, Krjutakov K, Metspalu A, Mihailov E, Langenberg C, Luan J, Ong KK, Chines PS, Keinanen-Kiukaanniemi SM, Saaristo TE, Edkins S, Franks PW, Hallmans G, Shungin D, Morris AD, Palmer CNA, Erbel R, Moebus S, Nöthen MM, Pechlivanis S, Hveem K, Narisu N, Hamsten A, Humphries SE, Strawbridge RJ, Tremoli E, Grallert H, Thorand B, Illig T, Koenig W, Müller-Nurasyid M, Peters A, Boehm BO, Kleber ME, März W, Winkelmann BR, Kuusisto J, Laakso M, Arveiler D, Ferrario MM, Kuulasmaa K, Virtamo J, Yarnell JWG, Kuh D, Wong A, Lind L, de Faire U, Gigante B, Magnusson PK, Pedersen N, Dedoussis G, Dimitriou M, Kolovou G, Kanoni S, Stirrups K, Bonnycastle LL, Njølstad I, Wilsgaard T, Ganna A, Rehnberg E, Hingorani A, Kivimaki M, Kumari M, Assimes TL, Barroso I, Boehnke M, Borecki IB, Deloukas P, Fox CS, Frayling T, Groop LC, Haritunian T, Hunter D, Ingelsson E, Kaplan R, Mohlke K, O'Connell JR, Schlessinger D, Strachan DP, Thorsteinsdottir U, van Duijn CM, Abecasis GR, McCarthy MI, Hirschhorn JN, Qi L, Loos RJF, Lindgren CM, North KE, Heid IM. Sex-stratified genome-wide association studies including 270,000 individuals show evidence for sexual dimorphism in genetic loci for anthropometric traits. **PLoS Genet** 2013;9:e1003500.
174. Global Lipids Genetics Consortium, Willer CJ, Schmidt EM, Sengupta S, Peloso GM, Gustafsson S, Kanoni S, Ganna A, Chen J, Buchkovich ML, Mora S, Beckmann JS, Bragg-Gresham JL, Chang HY, Demirkhan A, Den Hertog HM, Do R, Donnelly LA, Ehret GB, Esko

T, Feitosa MF, Ferreira T, Fischer K, Fontanillas P, Fraser RM, Freitag DF, Gurdasani D, Heikkilä K, Hyppönen E, Isaacs A, Jackson AU, Johansson A, Johnson T, Kaakinen M, Kettunen J, Kleber ME, Li X, Luan J, Lyytikäinen LP, Magnusson PK, Mangino M, Mihailov E, Montasser ME, Müller-Nurasyid M, Nolte IM, O'Connell JR, Palmer CD, Perola M, Petersen AK, Sanna S, Saxena R, Service SK, Shah S, Shungin D, Sidore C, Song C, Strawbridge RJ, Surakka I, Tanaka T, Teslovich TM, Thorleifsson G, Van den Herik EG, Voight BF, Volcik KA, Waite LL, Wong A, Wu Y, Zhang W, Absher D, Asiki G, Barroso I, Been LF, Bolton JL, Bonnycastle LL, Brambilla P, Burnett MS, Cesana G, Dimitriou M, Doney AS, Döring A, Elliott P, Epstein SE, Eyjolfsson GI, Gigante B, Goodarzi MO, Grallert H, Gravito ML, Groves CJ, Hallmans G, Hartikainen AL, Hayward C, Hernandez D, Hicks AA, Holm H, Hung YJ, Illig T, Jones MR, Kaleebu P, Kastelein JJ, Khaw KT, Kim E, Klopp N, Komulainen P, Kumari M, Langenberg C, Lehtimäki T, Lin SY, Lindström J, Loos RJ, Mach F, McArdle WL, Meisinger C, Mitchell BD, Müller G, Nagaraja R, Narisu N, Nieminen TV, Nsubuga RN, Olafsson I, Ong KK, Palotie A, Papamarkou T, Pomilla C, Pouta A, Rader DJ, Reilly MP, Ridker PM, Rivadeneira F, Rudan I, Ruokonen A, Samani N, Scharnagl H, Seeley J, Silander K, Stancáková A, Stirrups K, Swift AJ, Tiret L, Uitterlinden AG, van Pelt LJ, Vedantam S, Wainwright N, Wijmenga C, Wild SH, Willemse G, Wilsgaard T, Wilson JF, Young EH, Zhao JH, Adair LS, Arveiler D, Assimes TL, Bandinelli S, Bennett F, Bochud M, Boehm BO, Boomsma DI, Borecki IB, Bornstein SR, Bovet P, Burnier M, Campbell H, Chakravarti A, Chambers JC, Chen YD, Collins FS, Cooper RS, Danesh J, Dedoussis G, de Faire U, Feranil AB, Ferrières J, Ferrucci L, Freimer NB, Gieger C, Groop LC, Gudnason V, Gyllensten U, Hamsten A, Harris TB, Hingorani A, Hirschhorn JN, Hofman A, Hovingh GK, Hsiung CA, Humphries SE, Hunt SC, Hveem K, Iribarren C, Järvelin MR, Jula A, Kähönen M, Kaprio J, Kesäniemi A, Kivimaki M, Kooper JS, Koudstaal PJ, Krauss RM, Kuh D, Kuusisto J, Kyvik KO, Laakso M, Lakka TA, Lind L, Lindgren CM, Martin NG, März W, McCarthy MI, McKenzie CA, Meneton P, Metspalu A, Moilanen L, Morris AD, Munroe PB, Njølstad I, Pedersen NL, Power C, Pramstaller PP, Price JF, Psaty BM, Quertermous T, Rauramaa R, Saleheen D, Salomaa V, Sanghera DK, Saramies J, Schwarz PE, Sheu WH, Shuldiner AR, Siegbahn A, Spector TD, Stefansson K, Strachan DP, Tayo BO, Tremoli E, Tuomilehto J, Uusitupa M, van Duijn CM, Vollenweider P, Wallentin L, Wareham NJ, Whitfield JB, Wolffenbuttel BH, Ordovas JM, Boerwinkle E, Palmer CN, Thorsteinsdóttir U, Chasman DI, Rotter JI, Franks PW, Ripatti S, Cupples LA, Sandhu MS, Rich SS, Boehnke M, Deloukas P, Kathiresan S, Mohlke KL, Ingelsson E, Abecasis GR. Discovery and refinement of loci associated with lipid levels. **Nat Genet** 2013;45:1274-1283.

175. Do R, Willer CJ, Schmidt EM, Sengupta S, Gao C, Peloso GM, Gustafsson S, Kanoni S, Ganna A, Chen J, Buchkovich ML, Mora S, Beckmann JS, Bragg-Gresham JL, Chang HY, Demirkiran A, Den Hertog HM, Donnelly LA, Ehret GB, Esko T, Feitosa MF, Ferreira T, Fischer K, Fontanillas P, Fraser RM, Freitag DF, Gurdasani D, Heikkilä K, Hyppönen E, Isaacs A, Jackson AU, Johansson A, Johnson T, Kaakinen M, Kettunen J, Kleber ME, Li X, Luan J, Lyytikäinen LP, Magnusson PK, Mangino M, Mihailov E, Montasser ME, Müller- Nurasyid M, Nolte IM, O'Connell JR, Palmer CD, Perola M, Petersen AK, Sanna S, Saxena R, Service SK, Shah S, Shungin D, Sidore C, Song C, Strawbridge RJ, Surakka I, Tanaka T, Teslovich TM, Thorleifsson G, Van den Herik EG, Voight BF, Volcik KA, Waite LL, Wong A, Wu Y, Zhang W, Absher D, Asiki G, Barroso I, Been LF, Bolton JL, Bonnycastle LL, Brambilla P, Burnett MS, Cesana G, Dimitriou M, Doney AS, Döring A, Elliott P, Epstein SE, Eyjolfsson GI, Gigante B, Goodarzi MO, Grallert H, Gravito ML, Groves CJ, Hallmans G, Hartikainen AL, Hayward C, Hernandez D, Hicks AA, Holm H, Hung YJ, Illig T, Jones MR, Kaleebu P, Kastelein JJ, Khaw KT, Kim E, Klopp N, Komulainen P, Kumari M, Langenberg C, Lehtimäki T, Lin SY, Lindström J, Loos RJ, Mach F, McArdle WL, Meisinger C, Mitchell BD, Müller G,

- Nagaraja R, Narisu N, Nieminen TV, Nsubuga RN, Olafsson I, Ong KK, Palotie A, Papamarkou T, Pomilla C, Pouta A, Rader DJ, Reilly MP, Ridker PM, Rivadeneira F, Rudan I, Ruokonen A, Samani N, Scharnagl H, Seeley J, Silander K, Stančáková A, Stirrups K, Swift AJ, Tiret L, Uitterlinden AG, van Pelt LJ, Vedantam S, Wainwright N, Wijmenga C, Wild SH, Willemse G, Wilsgaard T, Wilson JF, Young EH, Zhao JH, Adair LS, Arveiler D, Assimes TL, Bandinelli S, Bennett F, Bochud M, Boehm BO, Boomsma DI, Borecki IB, Bornstein SR, Bovet P, Burnier M, Campbell H, Chakravarti A, Chambers JC, Chen YD, Collins FS, Cooper RS, Danesh J, Dedoussis G, de Faire U, Feranil AB, Ferrières J, Ferrucci L, Freimer NB, Gieger C, Groop LC, Gudnason V, Gyllensten U, Hamsten A, Harris TB, Hingorani A, Hirschhorn JN, Hofman A, Hovingh GK, Hsiung CA, Humphries SE, Hunt SC, Hveem K, Iribarren C, Järvelin MR, Jula A, Kähönen M, Kaprio J, Kesäniemi A, Kivimaki M, Kooner JS, Koudstaal PJ, Krauss RM, Kuh D, Kuusisto J, Kyvik KO, Laakso M, Lakka TA, Lind L, Lindgren CM, Martin NG, März W, McCarthy MI, McKenzie CA, Meneton P, Metspalu A, Moilanen L, Morris AD, Munroe PB, Njølstad I, Pedersen NL, Power C, Pramstaller PP, Price JF, Psaty BM, Quertermous T, Rauramaa R, Saleheen D, Salomaa V, Sanghera DK, Saramies J, Schwarz PE, Sheu WH, Shuldiner AR, Siegbahn A, Spector TD, Stefansson K, Strachan DP, Tayo BO, Tremoli E, Tuomilehto J, Uusitupa M, van Duijn CM, Vollenweider P, Wallentin L, Wareham NJ, Whitfield JB, Wolffenbuttel BH, Altshuler D, Ordovas JM, Boerwinkle E, Palmer CN, Thorsteinsdottir U, Chasman DI, Rotter JI, Franks PW, Ripatti S, Cupples LA, Sandhu MS, Rich SS, Boehnke M, Deloukas P, Mohlke KL, Ingelsson E, Abecasis GR, Daly MJ, Neale BM, Kathiresan S. Common variants associated with plasma triglycerides and risk for coronary artery disease. **Nat Genet** 2013;45:1345-1352.
176. Seppälä S, Laitinen T, Tarvainen MP, Tompuri T, Veijalainen A, Savonen K, Lakka TA. Normal values for heart rate variability parameters in children 6-8 years of age: The PANIC Study. **Clin Physiol Funct Imaging** 2014;34:290-296. doi:10.1111/cpf.12096.
177. Lintu N, Tompuri T, Viitasalo A, Soininen S, Laitinen T, Savonen K, Lindi V, Lakka TA. Cardiovascular fitness and hemodynamic responses to maximal cycle ergometer exercise test in children 6-8 years of age - The PANIC Study. **J Sports Sci** 2014;32:652-659. doi:10.1080/02640414.2013.845681.
178. Eloranta AM, Lindi V, Schwab U, Kiiskinen S, Venäläinen T, Lakka H-M, Laaksonen DE, Lakka TA. Dietary factors associated with metabolic risk score in Finnish children aged 6-8 years: The PANIC Study. **Eur J Nutr** 2014;53:1431-1439.
179. Haapala EA, Poikkeus AM, Tompuri T, Kukkonen-Harjula K, Leppänen PHT, Lindi V, Lakka TA. Associations of motor and cardiovascular performance with academic skills in children. **Med Sci Sports Exerc** 2014;46:1016-1024.
180. Viitasalo A, Lakka TA, Laaksonen DE, Savonen K, Lakka H-M, Hassinen M, Komulainen P, Tompuri T, Kurl S, Laukkanen JA, Rauramaa R. Validation of metabolic syndrome score by confirmatory factor analysis in children and adults and prediction of cardiometabolic outcomes in adults. **Diabetologia** 2014;57:940-949.
181. DIAbetes Genetics Replication And Meta-analysis (DIAGRAM) Consortium (Lakka TA as a collaborator); Asian Genetic Epidemiology Network Type 2 Diabetes (AGEN-T2D) Consortium; South Asian Type 2 Diabetes (SAT2D) Consortium; Mexican American Type 2 Diabetes (MAT2D) Consortium; Type 2 Diabetes Genetic Exploration by Next-generation sequencing in multi-Ethnic Samples (T2D-GENES) Consortium, Mahajan A, Go MJ, Zhang W, Below JE, Ferreira T, Horikoshi M, Johnson AD, Ng MC, Prokopenko I, Saleheen D, Wang X, Zeggini E, Abecasis GR, Adair LS, Almgren P, Atalay M, Aung T, Baldassarre D, Balkau

- B, Bao Y, Barnett AH, Barroso Gaulton KJ, I, Basit A, Been LF, Beilby J, Bell GI, Benediktsson R, Bergman RN, Boehm BO, Boerwinkle E, Bonnycastle LL, Burtt N, Cai Q, Campbell H, Carey J, Cauchi S, Caulfield M, Chan JC, Chang LC, Chang TJ, Chang YC, Charpentier G, Chen CH, Chen H, Chen YT, Chia KS, Chidambaram M, Chines PS, Cho NH, Cho YM, Chuang LM, Collins FS, Cornelis MC, Couper DJ, Crenshaw AT, van Dam RM, Danesh J, Das D, de Faire U, Dedoussis G, Deloukas P, Dimas AS, Dina C, Doney AS, Donnelly PJ, Dorkhan M, van Duijn C, Dupuis J, Edkins S, Elliott P, Emilsson V, Erbel R, Eriksson JG, Escobedo J, Esko T, Eury E, Florez JC, Fontanillas P, Forouhi NG, Forsen T, Fox C, Fraser RM, Frayling TM, Froguel P, Frossard P, Gao Y, Gertow K, Gieger C, Gigante B, Grallert H, Grant GB, Grrop LC, Groves CJ, Grundberg E, Guiducci C, Hamsten A, Han BG, Hara K, Hassanali N, Hattersley AT, Hayward C, Hedman AK, Herder C, Hofman A, Holmen OL, Hovingh K, Hreidarsson AB, Hu C, Hu FB, Hui J, Humphries SE, Hunt SE, Hunter DJ, Hveem K, Hydrie ZI, Ikegami H, Illig T, Ingelsson E, Islam M, Isomaa B, Jackson AU, Jafar T, James A, Jia W, Jöckel KH, Jonsson A, Jowett JB, Kadowaki T, Kang HM, Kanoni S, Kao WH, Kathiresan S, Kato N, Katulanda P, Keinanen-Kiukaanniemi KM, Kelly AM, Khan H, Khaw KT, Khor CC, Kim HL, Kim S, Kim YJ, Kinnunen L, Klopp N, Kong A, Korpi-Hyövälti E, Kowlessur S, Kraft P, Kravick J, Kristensen MM, Krithika S, Kumar A, Kumate J, Kuusisto J, Kwak SH, Laakso M, Lagou V, Lakka TA, Langenberg C, Langford C, Lawrence R, Leander K, Lee JM, Lee NR, Li M, Li X, Li Y, Liang J, Liju S, Lim WY, Lind L, Lindgren CM, Lindholm E, Liu CT, Liu JJ, Lobbens S, Long J, Loos RJ, Lu W, Luan J, Lyssenko V, Ma RC, Maeda S, Mägi R, Männisto S, Matthews DR, Meigs JB, Melander O, Metspalu A, Meyer J, Mirza G, Mihailov E, Moebus S, Mohan V, Mohlke KL, Morris AD, Mühlleisen TW, Müller-Nurasyid M, Musk B, Nakamura J, Nakashima E, Navarro P, Ng PK, Nica AC, Nilsson PM, Njølstad I, Nöthen MM, Ohnaka K, Ong TH, Owen KR, Palmer CN, Pankow JS, Park KS, Parkin M, Pechlivanis S, Pedersen NL, Peltonen L, Perry JR, Peters A, Pinidiyapathirage JM, Platou CG, Potter S, Price JF, Qi L, Radha V, Rallidis L, Rasheed A, Rathman W, Rauramaa R, Raychaudhuri S, Rayner NW, Rees SD, Rehnberg E, Ripatti S, Robertson N, Roden M, Rossin EJ, Rudan I, Rybin D, Saaristo TE, Salomaa V, Saltevo J, Samuel M, Sanghera DK, Saramies J, Scott J, Scott LJ, Scott RA, Segre AV, Sehmi J, Sennblad B, Shah N, Shah S, Shera AS, Shu XO, Shuldiner AR, Sigurdsson G, Sijbrands E, Silveira A, Sim X, Sivapalaratnam S, Small KS, So WY, Stančáková A, Stefansson K, Steinbach G, Steinhorsdottir V, Stirrups K, Strawbridge RJ, Stringham HM, Sun Q, Suo C, Syvänen AC, Takayanagi R, Takeuchi F, Tay WT, Teslovich TM, Thorand B, Thorleifsson G, Thorsteinsdottir U, Tikkanen E, Trakalo J, Tremoli E, Trip MD, Tsai FJ, Tuomi T, Tuomilehto J, Uitterlinden AG, Valladares-Salgado A, Vedantam S, Veglia F, Voight BF, Wang C, Wareham NJ, Wennauer R, Wickremasinghe AR, Wilsgaard T, Wilson JF, Wiltshire S, Winckler W, Wong TY, Wood AR, Wu JY, Wu Y, Yamamoto K, Yamauchi T, Yang M, Yengo L, Yokota M, Young R, Zabaneh D, Zhang F, Zhang R, Zheng W, Zimmet PZ, Altshuler D, Bowden DW, Cho YS, Cox NJ, Cruz M, Hanis CL, Kooner J, Lee JY, Seielstad M, Teo YY, Boehnke M, Parra EJ, Chambers JC, Tai ES, McCarthy MI, Morris AP. Genome-wide trans-ancestry meta-analysis provides insight into the genetic architecture of type 2 diabetes susceptibility. *Nat Genet* 2014;46:234-244.
182. Prokopenko I, Poon W, Mägi R, Prasad B R, Salehi SA, Almgren P, Osmark P, Bouatia-Naji N, Wierup N, Fall T, Stančáková A, Barker A, Lagou V, Osmond C, Xie W, Lahti J, Jackson AU, Cheng YC, Liu J, O'Connell JR, Blomstedt PA, Fadista J, Alkayyali S, Dayeh T, Ahlqvist E, Taneera J, Lecoeur C, Kumar A, Hansson O, Hansson K, Voight BF, Kang HM, Levy-Marchal C, Vatin V, Palotie A, Syvänen AC, Mari A, Weedon MN, Loos RJ, Ong KK, Nilsson P, Isomaa B, Tuomi T, Wareham NJ, Stumvoll M, Widen E, Lakka TA, Langenberg C, Tönjes A, Rauramaa R, Kuusisto J, Frayling TM, Froguel P, Walker M, Eriksson JG, Ling C, Kovacs

- P, Ingelsson E, McCarthy MI, Shuldiner AR, Silver KD, Laakso M, Groop L, Lyssenko V. A central role for GRB10 in regulation of islet function in man. **PLoS Genet** 2014;10:e1004235. doi: 10.1371/journal.pgen.1004235.
183. Venäläinen T, Schwab U, Ågren J, de Mello V, Lindi V, Eloranta AM, Kiiskinen S, Laaksonen D, Lakka TA. Cross-sectional associations of food consumption with plasma fatty acid composition and estimated desaturase activities in Finnish children. **Lipids** 2014;49:467-479.
184. Väistö J, Eloranta AM, Viitasalo A, Tompuri T, Lintu N, Karjalainen P, Lampinen E-K, Ågren J, Laaksonen DE, Lakka H-M, Lindi V, Lakka TA. Physical activity and sedentary behaviour in relation to cardiometabolic risk in children: cross-sectional findings from the Physical Activity and Nutrition in Children (PANIC) Study. **Int J Behav Nutr Phys Act** 2014;11:55. doi: 10.1186/1479-5868-11-55.
185. Winkler TW, Day FR, Croteau-Chonka DC, Wood AR, Locke AE, Mägi R, Ferreira T, Fall T, Graff M, Justice AE, Luan J, Gustafsson S, Randall JC, Vedantam S, Workalemahu T, Kilpeläinen TO, Scherag A, Esko T, Kutalik Z, Heid IM, Loos RJ; Genetic Investigation of Anthropometric Traits (GIANT) Consortium (Lakka TA as a collaborator). Quality control and conduct of genome-wide association meta-analyses. **Nat Protoc** 2014;9:1192-1212.
186. Hoggart CJ, Venturini G, Mangino M, Gomez F, Ascari G, Zhao JH, Teumer A, Winkler TW, Tšernikova N, Luan J, Mihailov E, Ehret GB, Zhang W, Lamparter D, Esko T, Macé A, Rüeger S, Bochud PY, Barcella M, Dauvilliers Y, Benyamin B, Evans DM, Hayward C, Lopez MF, Franke L, Russo A, Heid IM, Salvi E, Vendantam S, Arking DE, Boerwinkle E, Chambers JC, Fiorito G, Grallert H, Guarnera S, Homuth G, Huffman JE, Porteous D; Generation Scotland Consortium; LifeLines Cohort study; GIANT Consortium (Lakka TA as a collaborator), Moradpour D, Iranzo A, Hebebrand J, Kemp JP, Lammers GJ, Aubert V, Heim MH, Martin NG, Montgomery GW, Peraita-Adrados R, Santamaria J, Negro F, Schmidt CO, Scott RA, Spector TD, Strauch K, Völzke H, Wareham NJ, Yuan W, Bell JT, Chakravarti A, Kooner JS, Peters A, Matullo G, Wallaschofski H, Whitfield JB, Paccaud F, Vollenweider P, Bergmann S, Beckmann JS, Tafti M, Hastie ND, Cusi D, Bochud M, Frayling TM, Metspalu A, Jarvelin MR, Scherag A, Smith GD, Borecki IB, Rousson V, Hirschhorn JN, Rivolta C, Loos RJ, Kutalik Z. Novel approach identifies SNPs in SLC2A10 and KCNK9 with evidence for parent-of-origin effect on body mass index. **PLoS Genet** 14;10:e1004508. doi: 10.1371/journal.pgen.1004508.
187. Mäntyselkä A, Jääskeläinen J, Lindi V, Viitasalo A, Tompuri T, Voutilainen R, Lakka TA. The presentation of adrenarche is sexually dimorphic and modified by body adiposity. **J Clin Endocrinol Metab** 2014;99:3889-3994. doi: 10.1210/jc.2014-2049.
188. HPS2-THRIVE Collaborative Group (Lakka TA as a collaborator), Landray MJ, Haynes R, Hopewell JC, Parish S, Aung T, Tomson J, Wallendszus K, Craig M, Jiang L, Collins R, Armitage J. Effects of extended-release niacin with laropiprant in high-risk patients. **N Engl J Med** 2014;371:203-212. doi: 10.1056/NEJMoa1300955.
189. Haapala EA, Poikkeus AM, Kukkonen-Harjula K, Tompuri T, Lintu N, Väistö J, Leppänen PHT, Laaksonen DE, Lindi V, Lakka TA. Associations of physical activity and sedentary behavior with academic skills – a follow-up study among primary school children. **PLoS One** 2014;9(9):e107031. doi:10.1371/journal.pone.0107031.
190. Wood AR, Esko T, Yang J, Vedantam S, Pers TH, Gustafsson S, Chu AY, Estrada K, Luan J, Kutalik Z, Amin N, Buchkovich ML, Croteau-Chonka DC, Day FR, Duan Y, Fall T, Fehrman R, Ferreira T, Jackson AU, Karjalainen J, Lo KS, Locke AE, Mägi R, Mihailov E, Porcu E,

Randall JC, Scherag A, Vinkhuyzen AA, Westra HJ, Winkler TW, Workalemahu T, Zhao JH, Absher D, Albrecht E, Anderson D, Baron J, Beekman M, Demirkhan A, Ehret GB, Feenstra B, Feitosa MF, Fischer K, Fraser RM, Goel A, Gong J, Justice AE, Kanoni S, Kleber ME, Kristiansson K, Lim U, Lotay V, Lui JC, Mangino M, Leach IM, Medina-Gomez C, Nalls MA, Nyholt DR, Palmer CD, Pasko D, Pechlivanis S, Prokopenko I, Ried JS, Ripke S, Shungin D, Stancáková A, Strawbridge RJ, Sung YJ, Tanaka T, Teumer A, Trompet S, van der Laan SW, van Setten J, Van Vliet-Ostaptchouk JV, Wang Z, Yengo L, Zhang W, Afzal U, Arnlöv J, Arscott GM, Bandinelli S, Barrett A, Bellis C, Bennett AJ, Berne C, Blüher M, Bolton JL, Böttcher Y, Boyd HA, Bruinenberg M, Buckley BM, Buyske S, Caspersen IH, Chines PS, Clarke R, Claudi-Boehm S, Cooper M, Daw EW, De Jong PA, Deelen J, Delgado G, Denny JC, Dhonukshe-Rutten R, Dimitriou M, Doney AS, Dörr M, Eklund N, Eury E, Folkersen L, Garcia ME, Geller F, Giedraitis V, Go AS, Grallert H, Grammer TB, Gräßler J, Grönberg H, de Groot LC, Groves CJ, Haessler J, Hall P, Haller T, Hallmans G, Hannemann A, Hartman CA, Hassinen M, Hayward C, Heard-Costa NL, Helmer Q, Hemani G, Henders AK, Hillege HL, Hlatky MA, Hoffmann W, Hoffmann P, Holmen O, Houwing-Duistermaat JJ, Illig T, Isaacs A, James AL, Jeff J, Johansen B, Johansson A, Jolley J, Juliusdottir T, Junntila J, Kho AN, Kinnunen L, Klopp N, Kocher T, Kratzer W, Lichtner P, Lind L, Lindström J, Lobbens S, Lorentzon M, Lu Y, Lyssenko V, Magnusson PK, Mahajan A, Maillard M, McArdle WL, McKenzie CA, McLachlan S, McLaren PJ, Menni C, Merger S, Milani L, Moayyeri A, Monda KL, Morken MA, Müller G, Müller-Nurasyid M, Musk AW, Narisu N, Nauck M, Nolte IM, Nöthen MM, Oozageer L, Pilz S, Rayner NW, Renstrom F, Robertson NR, Rose LM, Roussel R, Sanna S, Scharnagl H, Scholtens S, Schumacher FR, Schunkert H, Scott RA, Sehmi J, Seufferlein T, Shi J, Silventoinen K, Smit JH, Smith AV, Smolonska J, Stanton AV, Stirrups K, Stott DJ, Stringham HM, Sundström J, Swertz MA, Syvänen AC, Tayo BO, Thorleifsson G, Tyrer JP, van Dijk S, van Schoor NM, van der Velde N, van Heemst D, van Oort FV, Vermeulen SH, Verweij N, Vonk JM, Waite LL, Waldenberger M, Wennauer R, Wilkens LR, Willenborg C, Wilsgaard T, Wojczynski MK, Wong A, Wright AF, Zhang Q, Arveiler D, Bakker SJ, Beilby J, Bergman RN, Bergmann S, Biffar R, Blangero J, Boomsma DI, Bornstein SR, Bovet P, Brambilla P, Brown MJ, Campbell H, Caulfield MJ, Chakravarti A, Collins R, Collins FS, Crawford DC, Cupples LA, Danesh J, de Faire U, den Ruijter HM, Erbel R, Erdmann J, Eriksson JG, Farrall M, Ferrannini E, Ferrières J, Ford I, Forouhi NG, Forrester T, Gansevoort RT, Gejman PV, Gieger C, Golay A, Gottesman O, Gudnason V, Gyllensten U, Haas DW, Hall AS, Harris TB, Hattersley AT, Heath AC, Hengstenberg C, Hicks AA, Hindorff LA, Hingorani AD, Hofman A, Hovingh GK, Humphries SE, Hunt SC, Hypponen E, Jacobs KB, Jarvelin MR, Jousilahti P, Jula AM, Kaprio J, Kastelein JJ, Kayser M, Kee F, Keinanen-Kiukaanniemi SM, Kiemeneij LA, Kooner JS, Kooperberg C, Koskinen S, Kovacs P, Kraja AT, Kumari M, Kuusisto J, Lakka TA, Langenberg C, Le Marchand L, Lehtimäki T, Lupoli S, Madden PA, Männistö S, Manunta P, Marette A, Matise TC, McKnight B, Meitinger T, Moll FL, Montgomery GW, Morris AD, Morris AP, Murray JC, Nelis M, Ohlsson C, Oldehinkel AJ, Ong KK, Ouwehand WH, Pasterkamp G, Peters A, Pramstaller PP, Price JF, Qi L, Raitakari OT, Rankinen T, Rao DC, Rice TK, Ritchie M, Rudan I, Salomaa V, Samani NJ, Saramies J, Sarzynski MA, Schwarz PE, Sebert S, Sever P, Shuldiner AR, Sinisalo J, Steinhorsdottir V, Stolk RP, Tardif JC, Tönjes A, Tremblay A, Tremoli E, Virtamo J, Vohl MC; The Electronic Medical Records and Genomics (eMERGE) Consortium; The MiGen Consortium; The PAGE Consortium; The LifeLines Cohort Study, Amouyel P, Asselbergs FW, Assimes TL, Bochud M, Boehm BO, Boerwinkle E, Bottinger EP, Bouchard C, Cauchi S, Chambers JC, Chanock SJ, Cooper RS, de Bakker PI, Dedoussis G, Ferrucci L, Franks PW, Froguel P, Groop LC, Haiman CA, Hamsten A, Hayes MG, Hui J, Hunter DJ, Hveem K, Jukema JW, Kaplan RC, Kivimaki M, Kuh D, Laakso M, Liu Y, Martin NG, März W, Melbye

- M, Moebus S, Munroe PB, Njølstad I, Oostra BA, Palmer CN, Pedersen NL, Perola M, Pérusse L, Peters U, Powell JE, Power C, Quertermous T, Rauramaa R, Reinmaa E, Ridker PM, Rivadeneira F, Rotter JI, Saaristo TE, Saleheen D, Schlessinger D, Slagboom PE, Snieder H, Spector TD, Strauch K, Stumvoll M, Tuomilehto J, Uusitupa M, van der Harst P, Völzke H, Walker M, Wareham NJ, Watkins H, Wichmann HE, Wilson JF, Zanen P, Deloukas P, Heid IM, Lindgren CM, Mohlke KL, Speliotes EK, Thorsteinsdóttir U, Barroso I, Fox CS, North KE, Strachan DP, Beckmann JS, Berndt SI, Boehnke M, Borecki IB, McCarthy MI, Metspalu A, Stefansson K, Uitterlinden AG, van Duijn CM, Franke L, Willer CJ, Price AL, Lettre G, Loos RJ, Weedon MN, Ingelsson E, O'Connell JR, Abecasis GR, Chasman DI, Goddard ME, Visscher PM, Hirschhorn JN, Frayling TM. Defining the role of common variation in the genomic and biological architecture of adult human height. **Nat Genet** 2014;46:1173-1186. doi:10.1038/ng.3097.
191. Tompuri T, Lintu N, Savonen K, Laitinen T, Laaksonen D, Jääskeläinen J, Lakka TA. Measures of cardiorespiratory fitness in relation to measures of body size and composition among children. **Clin Physiol Funct Imaging** 2015;35:469-477. doi: 10.1111/cpf.12185.
192. Viitasalo A, Pihlajamäki J, Lindi V, Atalay M, Kaminska D, Joro R, Lakka TA. Associations of I148M variant in PNPLA3 gene with plasma ALT levels during 2-year follow-up in normal weight and overweight children: the PANIC Study. **Pediatr Obes** 2015;10:84-90. doi:10.1111/ijpo.234.
193. Hakola L, Hassinen M, Komulainen P, Lakka TA, Savonen K, Rauramaa R. Correlates of low physical activity levels in aging men and women: The DR's EXTRA Study (ISRCTN45977199). **J Aging Phys Act** 2015;23:247-255. doi: 10.1123/japa.2013-0169.
194. Tompuri TT, Lakka TA, Hakulinen M, Lindi V, Laaksonen DE, Kilpeläinen TO, Jääskeläinen J, Lakka HM, Laitinen T. Assessment of body composition by dual-energy X-ray absorptiometry, bioimpedance analysis and anthropometrics in children: the Physical Activity and Nutrition in Children study. **Clin Physiol Funct Imaging** 2015;35:21-33. doi:10.1111/cpf.12118.
195. Lintu N, Viitasalo A, Tompuri T, Veijalainen A, Hakulinen M, Laitinen T, Savonen K, Lakka TA. Cardiorespiratory fitness, respiratory function and haemodynamic responses to maximal cycle ergometer exercise test in girls and boys aged 9-11 years - the PANIC Study. **Eur J Appl Physiol** 2015;115:235-243.
196. van der Valk RJP, Kreiner-Moller E, Kooijman MN, Guxens M, Stergiakouli E, Sääf A, Bradfield JP, Geller F, Hayes MG, Cousminer DL, Körner A, Thiering E, Curtin JA, Myhre R, Huikari V, Joro R, Kerkhof M, Warrington NM, Pitkänen N, Ntalla I, Horikoshi M, Veijola R, Freathy RM, Teo YY, Barton SJ, Evans DM, Kemp JP, St Pourcain B, Ring SM, Davey Smith G, Bergström A, Kull I, Hakonarson H, Mentch FD, Bisgaard H, Chawes B, Stokholm J, Waage J, Eriksen P, Sevelsted A, Melbye M; Early Genetics and Lifecourse Epidemiology (EAGLE) Consortium, van Duijn CM, Medina-Gomez C, Hofman A, de Jongste JC, Taal HR, Uitterlinden AG; Genetic Investigation of ANthropometric Traits (GIANT) Consortium, Armstrong LL, Eriksson J, Palotie A, Bustamante M, Estivill X, Gonzalez JR, Llop S, Kiess W, Mahajan A, Flexeder C, Tiesler CM, Murray CS, Simpson A, Magnus P, Sengpiel V, Hartikainen AL, Keinanen-Kiukaanniemi S, Lewin A, Da Silva Couto Alves A, Blakemore AI, Buxton JL, Kaakinen M, Rodriguez A, Sebert S, Vaarasmaki M, Lakka TA, Lindi V, Gehring U, Postma DS, Ang W, Newnham JP, Lyytikäinen LP, Pahkala K, Raitakari OT, Panoutsopoulou K, Zeggini E, Boomsma DI, Groen-Blokhuis M, Ilonen J, Franke L, Hirschhorn JN, Pers TH, Liang L, Huang J, Hocher B, Knip M, Saw SM, Holloway JW, Melén

- E, Grant SF, Feenstra B, Lowe WL, Widén E, Sergeyev E, Grallert H, Custovic A, Jacobsson B, Jarvelin MR, Atalay M, Koppelman GH, Pennell CE, Niinikoski H, Dedoussis GV, McCarthy MI, Frayling TM, Sunyer J, Timpson NJ, Rivadeneira F, Bønnelykke K, Jaddoe VW; Early Growth Genetics (EGG) Consortium. A novel common variant in DCST2 is associated with length in early life and height in adulthood. **Hum Mol Genet** 2015;24:1155-1168.
197. Rahmioglu N, Macgregor S, Drong AW, Hedman AK, Harris HR, Randall JC, Prokopenko I; The International EndoGene Consortium (IEC); The GIANT Consortium, Nyholt DR, Morris AP, Montgomery GW, Missmer SA, Lindgren CM, Zondervan KT; The International EndoGene Consortium IEC (Lakka TA as a collaborator). Genome-wide enrichment analysis between endometriosis and obesity-related traits reveals novel susceptibility loci. **Hum Mol Genet** 2015;24:1185-1199.
198. Krachler B, Savonen K, Komulainen P, Hassinen M, Lakka TA, Rauramaa R. Cardiopulmonary fitness is a function of lean mass, not total body weight: The DR's EXTRA study. **Eur J Prev Cardiol** 2015;22:1171-1179. doi: 10.1177/2047487314557962.
199. Hakola L, Savonen K, Komulainen P, Hassinen M, Rauramaa R, Lakka TA. Moderators of maintained increase in aerobic exercise among aging men and women in a 4-year randomized controlled trial: The DR's EXTRA Study. **J Phys Act Health** 2015;12:1477-1484.
200. Shungin D, Winkler TW, Croteau-Chonka DC, Ferreira T, Locke AE, Mägi R, Strawbridge RJ, Pers TH, Fischer K, Justice AE, Workalemahu T, Wu JM, Buchkovich ML, Heard-Costa NL, Roman TS, Drong AW, Song C, Gustafsson S, Day FR, Esko T, Fall T, Katalik Z, Luan J, Randall JC, Scherag A, Vedantam S, Wood AR, Chen J, Fehrman R, Karjalainen J, Kahali B, Liu CT, Schmidt EM, Absher D, Amin N, Anderson D, Beekman M, Bragg-Gresham JL, Buyske S, Demirkan A, Ehret GB, Feitosa MF, Goel A, Jackson AU, Johnson T, Kleber ME, Kristiansson K, Mangino M, Mateo Leach I, Medina-Gomez C, Palmer CD, Pasko D, Pechlivanis S, Peters MJ, Prokopenko I, Stančáková A, Ju Sung Y, Tanaka T, Teumer A, Van Vliet-Ostaptchouk JV, Yengo L, Zhang W, Albrecht E, Ärnlöv J, Arscott GM, Bandinelli S, Barrett A, Bellis C, Bennett AJ, Berne C, Blüher M, Böhringer S, Bonnet F, Böttcher Y, Bruunenberg M, Carba DB, Caspersen IH, Clarke R, Daw EW, Deelen J, Deelman E, Delgado G, Doney AS, Eklund N, Erdos MR, Estrada K, Eury E, Friedrich N, Garcia ME, Giedraitis V, Gigante B, Go AS, Golay A, Grallert H, Grammer TB, Gräßler J, Grewal J, Groves CJ, Haller T, Hallmans G, Hartman CA, Hassinen M, Hayward C, Heikkilä K, Herzig KH, Helmer Q, Hillege HL, Holmen O, Hunt SC, Isaacs A, Ittermann T, James AL, Johansson I, Juliusdottir T, Kalafati IP, Kinnunen L, Koenig W, Kooner IK, Kratzer W, Lamina C, Leander K, Lee NR, Lichtner P, Lind L, Lindström J, Lobbens S, Lorentzon M, Mach F, Magnusson PK, Mahajan A, McArdle WL, Menni C, Merger S, Mihailov E, Milani L, Mills R, Moayyeri A, Monda KL, Mooijaart SP, Mühlleisen TW, Mulas A, Müller G, Müller-Nurasyid M, Nagaraja R, Nalls MA, Narisu N, Glorioso N, Nolte IM, Olden M, Rayner NW, Renstrom F, Ried JS, Robertson NR, Rose LM, Sanna S, Scharnagl H, Scholtens S, Sennblad B, Seufferlein T, Sitlani CM, Vernon Smith A, Stirrups K, Stringham HM, Sundström J, Swertz MA, Swift AJ, Syvänen AC, Tayo BO, Thorand B, Thorleifsson G, Tomaschitz A, Troffa C, van Oort FV, Verweij N, Vonk JM, Waite LL, Wennauer R, Wilsgaard T, Wojczynski MK, Wong A, Zhang Q, Hua Zhao J, Brennan EP, Choi M, Eriksson P, Folkersten L, Franco-Cereceda A, Gharavi AG, Hedman ÅK, Hivert MF, Huang J, Kanoni S, Karpe F, Keildson S, Kiryluk K, Liang L, Lifton RP, Ma B, McKnight AJ, McPherson R, Metspalu A, Min JL, Moffatt MF, Montgomery GW, Murabito JM, Nicholson G, Nyholt DR, Olsson C, Perry JR, Reinmaa E, Salem RM, Sandholm N, Schadt EE, Scott RA, Stolk L, Vallejo EE, Westra HJ, Zondervan KT; ADIPOGen Consortium; CARDIOGRAMplusC4D Consortium; CKDGen Consortium; GEFOS

Consortium; GENIE Consortium; GLGC; ICBP; International Endogene Consortium; LifeLines Cohort Study; MAGIC Investigators; MuTHER Consortium; PAGE Consortium; ReproGen Consortium, Amouyel P, Arveiler D, Bakker SJ, Beilby J, Bergman RN, Blangero J, Brown MJ, Burnier M, Campbell H, Chakravarti A, Chines PS, Claudi-Boehm S, Collins FS, Crawford DC, Danesh J, de Faire U, de Geus EJ, Dörr M, Erbel R, Eriksson JG, Farrall M, Ferrannini E, Ferrières J, Forouhi NG, Forrester T, Franco OH, Gansevoort RT, Gieger C, Gudnason V, Haiman CA, Harris TB, Hattersley AT, Heliövaara M, Hicks AA, Hingorani AD, Hoffmann W, Hofman A, Homuth G, Humphries SE, Hyppönen E, Illig T, Jarvelin MR, Johansen B, Jousilahti P, Jula AM, Kaprio J, Kee F, Keinanen-Kiukaanniemi SM, Kooner JS, Kooperberg C, Kovacs P, Kraja AT, Kumari M, Kuulasmaa K, Kuusisto J, Lakka TA, Langenberg C, Le Marchand L, Lehtimäki T, Lyssenko V, Männistö S, Marette A, Matise TC, McKenzie CA, McKnight B, Musk AW, Möhlenkamp S, Morris AD, Nelis M, Ohlsson C, Oldehinkel AJ, Ong KK, Palmer LJ, Penninx BW, Peters A, Pramstaller PP, Raitakari OT, Rankinen T, Rao DC, Rice TK, Ridker PM, Ritchie MD, Rudan I, Salomaa V, Samani NJ, Saramies J, Sarzynski MA, Schwarz PE, Shuldiner AR, Staessen JA, Steinhorsdottir V, Stolk RP, Strauch K, Tönjes A, Tremblay A, Tremoli E, Vohl MC, Völker U, Vollenweider P, Wilson JF, Witteman JC, Adair LS, Bochud M, Boehm BO, Bornstein SR, Bouchard C, Cauchi S, Caulfield MJ, Chambers JC, Chasman DI, Cooper RS, Dedoussis G, Ferrucci L, Froguel P, Grabe HJ, Hamsten A, Hui J, Hveem K, Jöckel KH, Kivimaki M, Kuh D, Laakso M, Liu Y, März W, Munroe PB, Njølstad I, Oostra BA, Palmer CN, Pedersen NL, Perola M, Pérusse L, Peters U, Power C, Quertermous T, Rauramaa R, Rivadeneira F, Saaristo TE, Saleheen D, Sinisalo J, Slagboom PE, Snieder H, Spector TD, Thorsteinsdottir U, Stumvoll M, Tuomilehto J, Uitterlinden AG, Uusitupa M, van der Harst P, Veronesi G, Walker M, Wareham NJ, Watkins H, Wichmann HE, Abecasis GR, Assimes TL, Berndt SI, Boehnke M, Borecki IB, Deloukas P, Franke L, Frayling TM, Groop LC, Hunter DJ, Kaplan RC, O'Connell JR, Qi L, Schlessinger D, Strachan DP, Stefansson K, van Duijn CM, Willer CJ, Visscher PM, Yang J, Hirschhorn JN, Zillikens MC, McCarthy MI, Speliotes EK, North KE, Fox CS, Barroso I, Franks PW, Ingelsson E, Heid IM, Loos RJF, Cupples LA, Morris AP, Lindgren CM, Mohlke KL. New genetic loci link adipose and insulin biology to body fat distribution. **Nature** **2015**;518:187-196. doi: 10.1038/nature14132.

201. Qi Q, Downer MK, Kilpeläinen TO, Rob Taal H, Barton SJ, Ntalla I, Standl M, Boraska V, Huikari V, Kiefte-de Jong JC, Körner A, Lakka TA, Liu G, Magnusson J, Okuda M, Raitakari O, Richmond R, Scott RA, Bailey MES, Scheuermann K, Holloway JW, Inskip H, Isasi CR, Mossavar-Rahmani Y, Jaddoe VWV, Laitinen J, Lindi V, Melén E, Pitsiladis Y, Pitkänen N, Snieder H, Heinrich J, Timpson NJ, Wang T, Yuji H, Zeggini E, Dedoussis GV, Kaplan RC, Wylie-Rosett J, Loos RJF, Hu FB, Qi L. Dietary intake, FTO genetic variants and adiposity: a combined analysis of over 16,000 children and adolescents. **Diabetes** **2015**;64:2467-2476. doi: 10.2337/db14-1629.
202. Locke AE, Kahali B, Berndt SI, Justice AE, Pers TH, Day FR, Powell C, Vedantam S, Buchkovich ML, Yang J, Croteau-Chonka DC, Esko T, Fall T, Ferreira T, Gustafsson S, Kutalik Z, Luan J, Mägi R, Randall JC, Winkler TW, Wood AR, Workalemahu T, Faul JD, Smith JA, Hua Zhao J, Zhao W, Chen J, Fehrman R, Hedman ÅK, Karjalainen J, Schmidt EM, Absher D, Amin N, Anderson D, Beekman M, Bolton JL, Bragg-Gresham JL, Buyske S, Demirkiran A, Deng G, Ehret GB, Feenstra B, Feitosa MF, Fischer K, Goel A, Gong J, Jackson AU, Kanoni S, Kleber ME, Kristiansson K, Lim U, Lotay V, Mangino M, Mateo Leach I, Medina-Gomez C, Medland SE, Nalls MA, Palmer CD, Pasko D, Pechlivanis S, Peters MJ, Prokopenko I, Shungin D, Stančáková A, Strawbridge RJ, Ju Sung Y, Tanaka T, Teumer A, Trompet S, van der Laan SW, van Setten J, Van Vliet-Ostaptchouk JV, Wang Z, Yengo L,

Zhang W, Isaacs A, Albrecht E, Ärnlöv J, Arscott GM, Attwood AP, Bandinelli S, Barrett A, Bas IN, Bellis C, Bennett AJ, Berne C, Blagieva R, Blüher M, Böhringer S, Bonnycastle LL, Böttcher Y, Boyd HA, Bruinenberg M, Caspersen IH, Ida Chen YD, Clarke R, Warwick Daw E, de Craen AJ, Delgado G, Dimitriou M, Doney AS, Eklund N, Estrada K, Eury E, Folkersen L, Fraser RM, Garcia ME, Geller F, Giedraitis V, Gigante B, Go AS, Golay A, Goodall AH, Gordon SD, Gorski M, Grabe HJ, Grallert H, Grammer TB, Gräßler J, Grönberg H, Groves CJ, Gusto G, Haessler J, Hall P, Haller T, Hallmans G, Hartman CA, Hassinen M, Hayward C, Heard-Costa NL, Helmer Q, Hengstenberg C, Holmen O, Hottenga JJ, James AL, Jeff JM, Johansson Å, Jolley J, Juliusdottir T, Kinnunen L, Koenig W, Koskenvuo M, Kratzer W, Laitinen J, Lamina C, Leander K, Lee NR, Lichtner P, Lind L, Lindström J, Sin Lo K, Lobbens S, Lorbeer R, Lu Y, Mach F, Magnusson PK, Mahajan A, McArdle WL, McLachlan S, Menni C, Merger S, Mihailov E, Milani L, Moayyeri A, Monda KL, Morken MA, Mulas A, Müller G, Müller-Nurasyid M, Musk AW, Nagaraja R, Nöthen MM, Nolte IM, Pilz S, Rayner NW, Renstrom F, Rettig R, Ried JS, Ripke S, Robertson NR, Rose LM, Sanna S, Scharnagl H, Scholtens S, Schumacher FR, Scott WR, Seufferlein T, Shi J, Vernon Smith A, Smolonska J, Stanton AV, Steinhorsdottir V, Stirrups K, Stringham HM, Sundström J, Swertz MA, Swift AJ, Syvänen AC, Tan ST, Tayo BO, Thorand B, Thorleifsson G, Tyrer JP, Uh HW, Vandenput L, Verhulst FC, Vermeulen SH, Verweij N, Vonk JM, Waite LL, Warren HR, Waterworth D, Weedon MN, Wilkens LR, Willenborg C, Wilsgaard T, Wojczynski MK, Wong A, Wright AF, Zhang Q; LifeLines Cohort Study, Brennan EP, Choi M, Dastani Z, Drong AW, Eriksson P, Franco-Cereceda A, Gådin JR, Gharavi AG, Goddard ME, Handsaker RE, Huang J, Karpe F, Kathiresan S, Keildson S, Kiryluk K, Kubo M, Lee JY, Liang L, Lifton RP, Ma B, McCarroll SA, McKnight AJ, Min JL, Moffatt MF, Montgomery GW, Murabito JM, Nicholson G, Nyholt DR, Okada Y, Perry JR, Dorajoo R, Reinmaa E, Salem RM, Sandholm N, Scott RA, Stolk L, Takahashi A, Tanaka T, Van't Hooft FM, Vinkhuyzen AA, Westra HJ, Zheng W, Zondervan KT; ADIPOGen Consortium; AGEN-BMI Working Group; CARDIOGRAMplusC4D Consortium; CKDGen Consortium; GLGC; ICBP; MAGIC Investigators; MuTHER Consortium; MiGen Consortium; PAGE Consortium; ReproGen Consortium; GENIE Consortium; International Endogene Consortium, Heath AC, Arveiler D, Bakker SJ, Beilby J, Bergman RN, Blangero J, Bovet P, Campbell H, Caulfield MJ, Cesana G, Chakravarti A, Chasman DI, Chines PS, Collins FS, Crawford DC, Adrienne Cupples L, Cusi D, Danesh J, de Faire U, den Ruijter HM, Dominiczak AF, Erbel R, Erdmann J, Eriksson JG, Farrall M, Felix SB, Ferrannini E, Ferrières J, Ford I, Forouhi NG, Forrester T, Franco OH, Gansevoort RT, Gejman PV, Gieger C, Gottesman O, Gudnason V, Gyllensten U, Hall AS, Harris TB, Hattersley AT, Hicks AA, Hindorff LA, Hingorani AD, Hofman A, Homuth G, Kees Hovingh G, Humphries SE, Hunt SC, Hyppönen E, Illig T, Jacobs KB, Jarvelin MR, Jöckel KH, Johansen B, Jousilahti P, Wouter Jukema J, Jula AM, Kaprio J, Kastelein JJ, Keinanen-Kiukaanniemi SM, Kiemeneij LA, Knekt P, Kooner JS, Kooperberg C, Kovacs P, Kraja AT, Kumari M, Kuusisto J, Lakka TA, Langenberg C, Le Marchand L, Lehtimäki T, Lyssenko V, Männistö S, Marette A, Matise TC, McKenzie CA, McKnight B, Moll FL, Morris AD, Morris AP, Murray JC, Nelis M, Ohlsson C, Oldehinkel AJ, Ong KK, Madden PA, Pasterkamp G, Peden JF, Peters A, Postma DS, Pramstaller PP, Price JF, Qi L, Raitakari OT, Rankinen T, Rao DC, Rice TK, Ridker PM, Rioux JD, Ritchie MD, Rudan I, Salomaa V, Samani NJ, Saramies J, Sarzynski MA, Schunkert H, Schwarz PE, Sever P, Shuldiner AR, Sinisalo J, Stolk RP, Strauch K, Tönjes A, Trégouët DA, Tremblay A, Tremoli E, Virtamo J, Vohl MC, Völker U, Waeber G, Willemse G, Witteman JC, Zillikens MC, Adair LS, Amouyel P, Asselbergs FW, Assimes TL, Bochud M, Boehm BO, Boerwinkle E, Bornstein SR, Bottinger EP, Bouchard C, Cauchi S, Chambers JC, Chanock SJ, Cooper RS, de Bakker PI, Dedoussis G, Ferrucci L, Franks PW, Froguel P, Groop LC, Haiman CA, Hamsten A, Hui J, Hunter DJ, Hveem K, Kaplan RC,

Kivimaki M, Kuh D, Laakso M, Liu Y, Martin NG, März W, Melbye M, Metspalu A, Moebus S, Munroe PB, Njølstad I, Oostra BA, Palmer CN, Pedersen NL, Perola M, Pérusse L, Peters U, Power C, Quertermous T, Rauramaa R, Rivadeneira F, Saaristo TE, Saleheen D, Sattar N, Schadt EE, Schlessinger D, Eline Slagboom P, Snieder H, Spector TD, Thorsteinsdottir U, Stumvoll M, Tuomilehto J, Uitterlinden AG, Uusitupa M, van der Harst P, Walker M, Wallaschofski H, Wareham NJ, Watkins H, Weir DR, Wichmann HE, Wilson JF, Zanen P, Borecki IB, Deloukas P, Fox CS, Heid IM, O'Connell JR, Strachan DP, Stefansson K, van Duijn CM, Abecasis GR, Franke L, Frayling TM, McCarthy MI, Visscher PM, Scherag A, Willer CJ, Boehnke M, Mohlke KL, Lindgren CM, Beckmann JS, Barroso I, North KE, Ingelsson E, Hirschhorn JN, Loos RJ, Speliotes EK. Genetic studies of body mass index yield new insights for obesity biology. **Nature** 2015;518:197-206. doi: 10.1038/nature14177.

203. Haapala EA, Lintu N, Väistö J, Robinson LE, Viitasalo A, Lindi V, Lakka TA. Associations of physical performance and adiposity with cognition in children. **Med Sci Sports Exerc** 2015;47:2166-2174. doi: 10.1249/MSS.0000000000000652.
204. Pers TH, Karjalainen JM, Chan Y, Westra HJ, Wood AR, Yang J, Lui JC, Vedantam S, Gustafsson S, Esko T, Frayling T, Speliotes EK; Genetic Investigation of ANthropometric Traits (GIANT) Consortium (Lakka TA as a collaborator), Boehnke M, Raychaudhuri S, Fehrman RS, Hirschhorn JN, Franke L. Biological interpretation of genome-wide association studies using predicted gene functions. **Nat Commun** 2015;6:5890. doi:10.1038/ncomms6890.
205. Viitasalo A, Atalay M, Pihlajamäki J, Jääskeläinen J, Korkmaz A, Kaminska D, Lindi V, Lakka TA. The 148 M allele of the PNPLA3 gene is associated with plasma irisin levels in a population sample of Caucasian children: The PANIC Study. **Metabolism** 2015;64:793-796. doi: 10.1016/j.metabol.2015.01.010.
206. Ikävalko T, Närhi M, Lakka T, Myllykangas R, Tuomilehto H, Vierola A, Pahkala R. Lateral facial profile may reveal the risk for sleep disordered breathing in children-The PANIC-study. **Acta Odontol Scand** 2015;1-6. doi: 10.3109/00016357.2014.997795.
207. Haapala EA, Eloranta AM, Venäläinen T, Schwab U, Lindi V, Lakka TA. Associations of diet quality with cognition in children - The PANIC Study. **Brit J Nutr** 2015;114:1080-1087. doi: <http://dx.doi.org/10.1017/S0007114515001634>.
208. Panduru NM, Saraheimo M, Forsblom C, Thorn LM, Gordin D, Wadén J, Tolonen N, Bierhaus A, Humpert PM, Groop PH; FinnDiane Study Group (Lakka TA as a collaborator). Urinary adiponectin is an independent predictor of progression to end-stage renal disease in patients with type 1 diabetes and diabetic nephropathy. **Diabetes Care** 2015;38:883-890. doi:10.2337/dc14-2276.
209. Krachler B, Savonen K, Komulainen P, Hassinen M, Lakka T, Rauramaa R. VO₂max/kg is expected to be lower in obese individuals! **Int J Cardiol** 2015;189:234. doi:10.1016/j.ijcard.2015.04.100.
210. Hagnäs MJ, Kurl S, Rauramaa R, Lakka TA, Mäkkitalio TH, Savonen K, Laukkanen JA. The value of cardiorespiratory fitness and exercise-induced ST segment depression in predicting death from coronary heart disease. **Int J Cardiol** 2015;196:31-33. doi: 10.1016/j.ijcard.2015.05.134.
211. Krachler B, Savonen K, Komulainen P, Hassinen M, Lakka T, Rauramaa R. Cardiorespiratory fitness as a prognostic factor in heart failure needs to be standardized for body composition. **Am J Cardiol** 2015;116:164. doi:10.1016/j.amjcard.2015.04.006.
212. Gaulton KJ, Ferreira T, Lee Y, Raimondo A, Mägi R, Reschen ME, Mahajan A, Locke A,

- William Rayner N, Robertson N, Scott RA, Prokopenko I, Scott LJ, Green T, Sparso T, Thuillier D, Yengo L, Grallert H, Wahl S, Fränberg M, Strawbridge RJ, Kestler H, Chheda H, Eisele L, Gustafsson S, Steinthorsdottir V, Thorleifsson G, Qi L, Karssen LC, van Leeuwen EM, Willems SM, Li M, Chen H, Fuchsberger C, Kwan P, Ma C, Linderman M, Lu Y, Thomsen SK, Rundle JK, Beer NL, van de Bunt M, Chalisey A, Kang HM, Voight BF, Abecasis GR, Almgren P, Baldassarre D, Balkau B, Benediktsson R, Blüher M, Boeing H, Bonnycastle LL, Bottinger EP, Burtt NP, Carey J, Charpentier G, Chines PS, Cornelis MC, Couper DJ, Crenshaw AT, van Dam RM, Doney AS, Dorkhan M, Edkins S, Eriksson JG, Esko T, Eury E, Fadista J, Flannick J, Fontanillas P, Fox C, Franks PW, Gertow K, Gieger C, Gigante B, Gottesman O, Grant GB, Grarup N, Groves CJ, Hassinen M, Have CT, Herder C, Holmen OL, Hreidarsson AB, Humphries SE, Hunter DJ, Jackson AU, Jonsson A, Jørgensen ME, Jørgensen T, Kao WL, Kerrison ND, Kinnunen L, Klopp N, Kong A, Kovacs P, Kraft P, Kravic J, Langford C, Leander K, Liang L, Lichtner P, Lindgren CM, Lindholm E, Linneberg A, Liu CT, Lobbens S, Luan J, Lyssenko V, Männistö S, McLeod O, Meyer J, Mihailov E, Mirza G, Mühleisen TW, Müller-Nurasyid M, Navarro C, Nöthen MM, Oskolkov NN, Owen KR, Palli D, Pechlivanis S, Peltonen L, Perry JR, Platou CG, Roden M, Ruderfer D, Rybin D, van der Schouw YT, Sennblad B, Sigurðsson G, Stančáková A, Steinbach G, Storm P, Strauch K, Stringham HM, Sun Q, Thorand B, Tikkainen E, Tonjes A, Trakalo J, Tremoli E, Tuomi T, Wennauer R, Wiltshire S, Wood AR, Zeggini E, Dunham I, Birney E, Pasquali L, Ferrer J, Loos RJ, Dupuis J, Florez JC, Boerwinkle E, Pankow JS, van Duijn C, Sijbrands E, Meigs JB, Hu FB, Thorsteinsdottir U, Stefansson K, Lakka TA, Rauramaa R, Stumvoll M, Pedersen NL, Lind L, Keinanen-Kiukaanniemi SM, Korpi-Hyövälti E, Saaristo TE, Saltevo J, Kuusisto J, Laakso M, Metspalu A, Erbel R, Jöcke KH, Moebus S, Ripatti S, Salomaa V, Ingelsson E, Boehm BO, Bergman RN, Collins FS, Mohlke KL, Koistinen H, Tuomilehto J, Hveem K, Njølstad I, Deloukas P, Donnelly PJ, Frayling TM, Hattersley AT, de Faire U, Hamsten A, Illig T, Peters A, Cauchi S, Sladek R, Froguel P, Hansen T, Pedersen O, Morris AD, Palmer CN, Kathiresan S, Melander O, Nilsson PM, Groop LC, Barroso I, Langenberg C, Wareham NJ, O'Callaghan CA, Gloyn AL, Altshuler D, Boehnke M, Teslovich TM, McCarthy MI, Morris AP; DIAbetes Genetics Replication And Meta-analysis (DIAGRAM) Consortium. Genetic fine mapping and genomic annotation defines causal mechanisms at type 2 diabetes susceptibility loci. **Nat Genet** 2015;47:1415-1425. doi: 10.1038/ng.3437.
213. Krachler B, Savonen K, Lakka T. Obesity is an important source of bias in the assessment of cardiorespiratory fitness. **Am Heart J** 2015;170(5):e7-8. doi: 10.1016/j.ahj.2015.08.016.
214. Eskeli R, Lösönen M, Ikävalko T, Myllykangas R, Lakka T, Laine-Alava M. Secular trends affect timing of emergence of permanent teeth. **Angle Orthod** 2016;86:53-58. doi: 10.2319/121014-894.1.
215. Veijalainen A, Tompuri T, Haapala EA, Viitasalo A, Lintu N, Väistö J, Laitinen T, Lindi V, Lakka TA. Associations of cardiorespiratory fitness, physical activity and adiposity with arterial stiffness in children. **Scand J Med Sci Sports** 2016;26:943-950. doi: 10.1111/sms.12523.
216. Viitasalo A, Ågren J, Venäläinen T, Pihlajamäki J, Jääskeläinen J, Korkmaz A, Atalay M, Lakka TA. Association of plasma fatty acid composition with plasma irisin levels in normal weight and overweight/obese children. **Pediatr Obes** 2016;11:299-305. doi: 10.1111/ijpo.12062.
217. Venäläinen TM, Ågren J, Schwab U, de Mello V, Eloranta AM, Laaksonen D, Lindi V, Lakka TA. Cross-sectional associations of plasma fatty acid composition and estimated desaturase and elongase activities with cardiometabolic risk in Finnish children - The PANIC Study. **J**

Clin Lipidol 2016;10:82-91. doi: <http://dx.doi.org/10.1016/j.jacl.2015.09.004>.

218. Felix JF, Bradfield JP, Monnereau C, van der Valk RJP, Stergiakouli E, Chesi A, Gaillard R, Feenstra B, Thiering E, Kreiner-Møller E, Mahajan A, Pitkänen N, Joro R, Cavadino A, Huikari V, Franks S, Groen-Blokhuis MM, Cousminer DL, Marsh JA, Lehtimäki T, Curtin JA, Vioque J, Ahluwalia TS, Myhre R, Price TS, Vilor-Tejedor N, Yengo L, Grarup N, Ntalla I, Ang W, Atalay M, Bisgaard H, Blakemore AI, Bonnefond A, Carstensen L, Bone Mineral Density in Childhood Study (BMDCS) Consortium, Early Genetics and Lifecourse Epidemiology (EAGLE) consortium, Eriksson J, Flexeder C, Franke L, Geller F, Geserick M, Hartikainen AL, Haworth CMA, Hirschhorn JN, Hofman A, Holm JC, Horikoshi M, Hottenga JJ, Huang J, Kadarmideen HN, Kähönen M, Kiess W, Lakka HM, Lakka TA, Lewin AM, Liang L, Lyytikäinen LP, Ma P, Magnus P, McCormack SE, McMahon G, Mentch FD, Middeldorp CM, Murray CS, Pahkala K, Pers TH, Pfäffle R, Postma DS, Power C, Simpson A, Sengpiel V, Tiesler CMT, Torrent M, Uitterlinden AG, van Meurs JB, Vinding R, Waage J, Wardle J, Zeggini E, Zemel BS, Dedousis GV, Pedersen O, Froguel P, Sunyer J, Plomin R, Jacobsson B, Hansen T, Gonzalez JR, Custovic A, Raitakari OT, Pennell CE, Widén E, Boomsma DI, Koppelman GH, Sebert S, Järvelin MR, Hyppönen E, McCarthy MI, Lindi V, Niinikoski H, Körner A, Bønnelykke K, Heinrich J, Melbye M, Rivadeneira F, Hakonarson H, Ring SM, Smith GD, Sørensen TIA, Timpson NJ, Grant SFA, Jaddoe VWV for the Early Growth Genetics (EGG) Consortium. Genome-wide association analysis identifies three new susceptibility loci for childhood body mass index. **Hum Mol Genet** 2016;25:389-403. doi:10.1093/hmg/ddv472.
219. Zaproudina N, Närhi M, Veijalainen A, Laitinen T, Lakka TA. Finger skin temperatures in 8- to 11-year-old children: determinants including physical characteristics and seasonal variation. The Physical Activity and Nutrition in Children (PANIC) Study. **Eur J Appl Physiol** 2016;116:405-413. doi: 10.1007/s00421-015-3297-3.
220. Haapala EA, Väistö J, Niina Lintu, Tompuri T, Brage S, Westgate K, Ekelund U, Lampinen EK, Sääkslahti A, Lindi V, Lakka TA. Adiposity, physical activity, and neuromuscular performance in children. **J Sports Sci** 2016;34:1699-706. doi: 10.1080/02640414.2015.1134805.
221. Viitasalo A, Pihlajamäki J, Paananen J, Atalay M, Lindi V, Lakka TA. Associations of TM6SF2 167K allele with liver enzymes and lipid profile in children: The PANIC Study. **Pediatr Res** 2016;79:684-688. doi: 10.1038/pr.2016.3.
222. Soininen S, Eloranta AM, Lindi V, Venäläinen T, Zaproudina N, Mahonen A, Lakka TA. Determinants of serum 25-hydroxyvitamin D concentration in Finnish children: the Physical Activity and Nutrition in Children (PANIC) study. **Brit J Nutr** 2016;115:1080-1091. doi:10.1017/S0007114515005292.
223. Viitasalo A, Eloranta AM, Lintu N, Väistö J, Venäläinen T, Kiiskinen S, Karjalainen P, Peltola J, Lampinen EK, Haapala EA, Paananen J, Schwab U, Lindi V, Lakka TA. The effects of a 2-year individualized and family-based lifestyle intervention on physical activity, sedentary behavior and diet in children. **Prev Med** 2016;87:81-88. doi: 10.1016/j.ypmed.2016.02.027.
224. Scott LJ, Erdos MR, Huyghe J, Welch RP, Beck AT, Wolford BN, Chines PS, Didion JP, Narisu N, Stringham HM, Taylor DL, Jackson AU, Vadlamudi S, Bonnycastle LL, Kinnunen L, Saramies J, Sundvall J, D'Oliveira Albanus R, Kiseleva A, Hensley J, Crawford GE, Jiang H, Wen X, Watanabe RM, Lakka TA, Mohlke KL, Laakso M, Tuomilehto J, Koistinen HA, Boehnke M, Collins FS, Parker SC. The genetic regulatory signature of type 2 diabetes in human skeletal muscle. **Nat Commun** 2016;7:11764. doi: 10.1038/ncomms11764.

225. Lintu N, Savonen K, Viitasalo A, Tompuri T, Paananen J, Tarvainen MP, Lakka TA. Determinants of cardiorespiratory fitness in a population sample of girls and boys aged 6 to 8 years. **J Phys Act Health** 2016;13:1149-1155. doi: 10.1123/jpah.2015-0644.
226. Eloranta AM, Schwab U, Venäläinen T, Kiiskinen S, Lakka HM, Laaksonen DE, Lakka TA, Lindi V. Dietary quality indices in relation to cardiometabolic risk among Finnish children aged 6–8 years – the PANIC study. **Nutr Metab Cardiovasc Dis** 2016;26:833-841. doi:10.1016/j.numecd.2016.05.005.
227. Vierola A, Suominen AL, Lindi V, Viitasalo A, Ikävalko T, Lintu N, Väistö J, Kellokoski J, Närhi M, Lakka TA. Associations of sedentary behavior, physical activity, cardiorespiratory fitness, and body fat content with pain conditions in children: The Physical Activity and Nutrition in Children Study. **J Pain** 2016;17:845-853. doi: 10.1016/j.jpain.2016.03.011.
228. Tompuri TT, Lintu N, Soininen S, Laitinen T, Lakka TA. Comparison between parameters from maximal cycle ergometer test first without respiratory gas analysis and thereafter with respiratory gas analysis among healthy prepubertal children. **Appl Physiol Nutr Metab** 2016;41:624-630. doi: 10.1139/apnm-2015-0355.
229. Zanoni P, Khetarpal SA, Larach DB, Hancock-Cerutti WF, Millar JS, Cuchel M, DerOhannessian S, Kontush A, Surendran P, Saleheen D, Trompet S, Jukema JW, De Craen A, Deloukas P, Sattar N, Ford I, Packard C, Majumder AA, Alam DS, Di Angelantonio E, Abecasis G, Chowdhury R, Erdmann J, Nordestgaard BG, Nielsen SF, Tybjærg-Hansen A, Schmidt RF, Kuulasmaa K, Liu DJ, Perola M, Blankenberg S, Salomaa V, Männistö S, Amouyel P, Arveiler D, Ferrieres J, Müller-Nurasyid M, Ferrario M, Kee F, Willer CJ, Samani N, Schunkert H, Butterworth AS, Howson JM, Peloso GM, Stitzel NO, Danesh J, Kathiresan S, Rader DJ; CHD Exome+ Consortium; CARDIoGRAM Exome Consortium; Global Lipids Genetics Consortium (Lakka TA as a collaborator). Rare variant in scavenger receptor BI raises HDL cholesterol and increases risk of coronary heart disease. **Science** 2016;351:1166-1171. doi: 10.1126/science.aad3517.
230. Äärelä L, Nurminen S, Kivelä L, Huhtala H, Mäki M, Viitasalo A, Kaukinen K, Lakka T, Kurppa K. Prevalence and associated factors of abnormal liver values in children with celiac disease. **Dig Liver Dis** 2016;48:1023-1029. doi: 10.1016/j.dld.2016.05.022.
231. Viitasalo A, Eloranta AM, Atalay M, Romeo S, Pihlajamäki J, Lakka TA. Association of MBOAT7 gene variant with plasma ALT levels in children: the PANIC study. **Pediatr Res** 2016;80:651-655. doi: 10.1038/pr.2016.139.
232. Soininen S, Eloranta AM, Lindi V, Lakka TA. Response: food fortification as a means to increase vitamin D intake. **Br J Nutr** 2016;116:1134-1135. doi:10.1017/S0007114516002890.
233. Venäläinen TM, Viitasalo AM, Schwab US, Eloranta AM, Haapala EA, Jalkanen HP, de Mello VD, Laaksonen DE, Lindi VI, Ågren JJ, Lakka TA. Effect of a 2-y dietary and physical activity intervention on plasma fatty acid composition and estimated desaturase and elongase activities in children: the Physical Activity and Nutrition in Children Study. **Am J Clin Nutr** 2016;104:964-972. doi: 10.3945/ajcn.116.136580.
234. Winkler TW, Justice AE, Graff M, Barata L, Feitosa MF, Chu S, Czajkowski J, Esko T, Fall T, Kilpeläinen TO, Lu Y, Mägi R, Mihailov E, Pers TH, Rüeger S, Teumer A, Ehret GB, Ferreira T, Heard-Costa NL, Karjalainen J, Lagou V, Mahajan A, Neinast MD, Prokopenko I, Simino J, Teslovich TM, Jansen R, Westra HJ, White CC, Absher D, Ahluwalia TS, Ahmad S, Albrecht E, Alves AC, Bragg-Gresham JL, de Craen AJ, Bis JC, Bonnefond A, Boucher G, Cadby G, Cheng YC, Chiang CW, Delgado G, Demirkhan A, Dueker N, Eklund N, Eiriksdottir G,

Eriksson J, Feenstra B, Fischer K, Frau F, Galesloot TE, Geller F, Goel A, Gorski M, Grammer TB, Gustafsson S, Haitjema S, Hottenga JJ, Huffman JE, Jackson AU, Jacobs KB, Johansson Å, Kaakinen M, Kleber ME, Lahti J, Mateo Leach I, Lehne B, Liu Y, Lo KS, Lorentzon M, Luan J, Madden PA, Mangino M, McKnight B, Medina-Gomez C, Monda KL, Montasser ME, Müller G, Müller-Nurasyid M, Nolte IM, Panoutsopoulou K, Pascoe L, Paternoster L, Rayner NW, Renström F, Rizzi F, Rose LM, Ryan KA, Salo P, Sanna S, Scharnagl H, Shi J, Smith AV, Southam L, Stančáková A, Steinthorsdottir V, Strawbridge RJ, Sung YJ, Tachmazidou I, Tanaka T, Thorleifsson G, Trompet S, Pervjakova N, Tyrer JP, Vandenput L, van der Laan SW, van der Velde N, van Setten J, van Vliet-Ostaptchouk JV, Verweij N, Vlachopoulou E, Waite LL, Wang SR, Wang Z, Wild SH, Willenborg C, Wilson JF, Wong A, Yang J, Yengo L, Yerges-Armstrong LM, Yu L, Zhang W, Zhao JH, Andersson EA, Bakker SJ, Baldassarre D, Banasik K, Barcella M, Barlassina C, Bellis C, Benaglio P, Blangero J, Blüher M, Bonnet F, Bonnycastle LL, Boyd HA, Bruinenberg M, Buchman AS, Campbell H, Chen YI, Chines PS, Claudi-Boehm S, Cole J, Collins FS, de Geus EJ, de Groot LC, Dimitriou M, Duan J, Enroth S, Eury E, Farmaki AE, Forouhi NG, Friedrich N, Gejman PV, Gigante B, Glorioso N, Go AS, Gottesman O, Gräßler J, Grallert H, Grarup N, Gu YM, Broer L, Ham AC, Hansen T, Harris TB, Hartman CA, Hassinen M, Hastie N, Hattersley AT, Heath AC, Henders AK, Hernandez D, Hillege H, Holmen O, Hovingh KG, Hui J, Husemoen LL, Hutri-Kähönen N, Hysi PG, Illig T, De Jager PL, Jalilzadeh S, Jørgensen T, Jukema JW, Juonala M, Kanoni S, Karaleftheri M, Khaw KT, Kinnunen L, Kittner SJ, Koenig W, Kolcic I, Kovacs P, Krarup NT, Kratzer W, Krüger J, Kuh D, Kumari M, Kyriakou T, Langenberg C, Lannfelt L, Lanzani C, Lotay V, Launer LJ, Leander K, Lindström J, Linneberg A, Liu YP, Lobbens S, Luben R, Lyssenko V, Männistö S, Magnusson PK, McArdle WL, Menni C, Merger S, Milani L, Montgomery GW, Morris AP, Narisu N, Nelis M, Ong KK, Palotie A, Pérusse L, Pichler I, Pilia MG, Pouta A, Rheinberger M, Ribel-Madsen R, Richards M, Rice KM, Rice TK, Rivolta C, Salomaa V, Sanders AR, Sarzynski MA, Scholtens S, Scott RA, Scott WR, Sebert S, Sengupta S, Sennblad B, Seufferlein T, Silveira A, Slagboom PE, Smit JH, Sparsø TH, Stirrups K, Stolk RP, Stringham HM, Swertz MA, Swift AJ, Syvänen AC, Tan ST, Thorand B, Tönjes A, Tremblay A, Tsafantakis E, van der Most PJ, Völker U, Vohl MC, Vonk JM, Waldenberger M, Walker RW, Wennauer R, Widén E, Willemse G, Wilsgaard T, Wright AF, Zillikens MC, van Dijk SC, van Schoor NM, Asselbergs FW, de Bakker PI, Beckmann JS, Beilby J, Bennett DA, Bergman RN, Bergmann S, Böger CA, Boehm BO, Boerwinkle E, Boomsma DI, Bornstein SR, Bottinger EP, Bouchard C, Chambers JC, Chanock SJ, Chasman DI, Cucca F, Cusi D, Dedoussis G, Erdmann J, Eriksson JG, Evans DA, de Faire U, Farrall M, Ferrucci L, Ford I, Franke L, Franks PW, Froguel P, Gansevoort RT, Gieger C, Grönberg H, Gudnason V, Gyllensten U, Hall P, Hamsten A, van der Harst P, Hayward C, Heliövaara M, Hengstenberg C, Hicks AA, Hingorani A, Hofman A, Hu F, Huikuri HV, Hveem K, James AL, Jordan JM, Jula A, Kähönen M, Kajantie E, Kathiresan S, Kiemeney LA, Kivimaki M, Knekter PB, Koistinen HA, Kooner JS, Koskinen S, Kuusisto J, Maerz W, Martin NG, Laakso M, Lakka TA, Lehtimäki T, Lettre G, Levinson DF, Lind L, Lokki ML, Mäntyselkä P, Melbye M, Metspalu A, Mitchell BD, Moll FL, Murray JC, Musk AW, Nieminen MS, Njølstad I, Ohlsson C, Oldehinkel AJ, Oostra BA, Palmer LJ, Pankow JS, Pasterkamp G, Pedersen NL, Pedersen O, Penninx BW, Perola M, Peters A, Polašek O, Pramstaller PP, Psaty BM, Qi L, Quertermous T, Raitakari OT, Rankinen T, Rauramaa R, Ridker PM, Rioux JD, Rivadeneira F, Rotter JI, Rudan I, den Ruijter HM, Saltevo J, Sattar N, Schunkert H, Schwarz PE, Shuldiner AR, Sinisalo J, Snieder H, Sørensen TI, Spector TD, Staessen JA, Stefania B, Thorsteinsdottir U, Stumvoll M, Tardif JC, Tremoli E, Tuomilehto J, Uitterlinden AG, Uusitupa M, Verbeek AL, Vermeulen SH, Viikari JS, Vitart V, Völzke H, Vollenweider P, Waeber G, Walker M, Wallaschofski H, Wareham NJ, Watkins H, Zeggini E; arcOGEN Consortium; CHARGE

Consortium; DIAGRAM Consortium; GLGC Consortium; Global-BPGen Consortium; ICBP Consortium; MAGIC Consortium, Chakravarti A, Clegg DJ, Cupples LA, Gordon-Larsen P, Jaquish CE, Rao DC, Abecasis GR, Assimes TL, Barroso I, Berndt SI, Boehnke M, Deloukas P, Fox CS, Groop LC, Hunter DJ, Ingelsson E, Kaplan RC, McCarthy MI, Mohlke KL, O'Connell JR, Schlessinger D, Strachan DP, Stefansson K, van Duijn CM, Hirschhorn JN, Lindgren CM, Heid IM, North KE, Borecki IB, Kutalik Z, Loos RJ. Correction: The influence of age and sex on genetic associations with adult body size and shape: a large-scale genome-wide interaction study. **PLoS Genet** 2016;12(6):e1006166. doi: 10.1371/journal.pgen.1006166.

235. Ehret GB, Ferreira T, Chasman DI, Jackson AU, Schmidt EM, Johnson T, Thorleifsson G, Luan J, Donnelly LA, Kanoni S, Petersen AK, Pihur V, Strawbridge RJ, Shungin D, Hughes MF, Meirelles O, Kaakinen M, Bouatia-Naji N, Kristiansson K, Shah S, Kleber ME, Guo X, Lyytikäinen LP, Fava C, Eriksson N, Nolte IM, Magnusson PK, Salfati EL, Rallidis LS, Theusch E, Smith AJ, Folkersen L, Witkowska K, Pers TH, Joehanes R, Kim SK, Lataniotis L, Jansen R, Johnson AD, Warren H, Kim YJ, Zhao W, Wu Y, Tayo BO, Bochud M; CHARGE-EchoGen Consortium; CHARGE-HF Consortium; Wellcome Trust Case Control Consortium, Absher D, Adair LS, Amin N, Arking DE, Axelsson T, Baldassarre D, Balkau B, Bandinelli S, Barnes MR, Barroso I, Bevan S, Bis JC, Bjornsdottir G, Boehnke M, Boerwinkle E, Bonnycastle LL, Boomsma DI, Bornstein SR, Brown MJ, Burnier M, Cabrera CP, Chambers JC, Chang IS, Cheng CY, Chines PS, Chung RH, Collins FS, Connell JM, Döring A, Dallongeville J, Danesh J, de Faire U, Delgado G, Dominiczak AF, Doney AS, Drenos F, Edkins S, Eicher JD, Elosua R, Enroth S, Erdmann J, Eriksson P, Esko T, Evangelou E, Evans A, Fall T, Farrall M, Felix JF, Ferrières J, Ferrucci L, Fornage M, Forrester T, Franceschini N, Franco OH, Franco-Cereceda A, Fraser RM, Ganesh SK, Gao H, Gertow K, Gianfagna F, Gigante B, Giulianini F, Goel A, Goodall AH, Goodarzi MO, Gorski M, Gräßler J, Groves CJ, Gudnason V, Gyllensten U, Hallmans G, Hartikainen AL, Hassinen M, Havulinna AS, Hayward C, Hercberg S, Herzig KH, Hicks AA, Hingorani AD, Hirschhorn JN, Hofman A, Holmen J, Holmen OL, Hottenga JJ, Howard P, Hsiung CA, Hunt SC, Ikram MA, Illig T, Iribarren C, Jensen RA, Kähönen M, Kang HM, Kathiresan S, Keating BJ, Khaw KT, Kim YK, Kim E, Kivimaki M, Klopp N, Kolovou G, Komulainen P, Kooner JS, Kosova G, Krauss RM, Kuh D, Kutalik Z, Kuusisto J, Kvaløy K, Lakka TA, Lee NR, Lee IT, Lee WJ, Levy D, Li X, Liang KW, Lin H, Lin L, Lindström J, Lobbens S, Männistö S, Müller G, Müller-Nurasyid M, Mach F, Markus HS, Marouli E, McCarthy MI, McKenzie CA, Meneton P, Menni C, Metspalu A, Mijatovic V, Moilanen L, Montasser ME, Morris AD, Morrison AC, Mulas A, Nagaraja R, Narisu N, Nikus K, O'Donnell CJ, O'Reilly PF, Ong KK, Paccaud F, Palmer CD, Parsa A, Pedersen NL, Penninx BW, Perola M, Peters A, Poulter N, Pramstaller PP, Psaty BM, Quertermous T, Rao DC, Rasheed A, Rayner NW, Renström F, Rettig R, Rice KM, Roberts R, Rose LM, Rossouw J, Samani NJ, Sanna S, Saramies J, Schunkert H, Sebert S, Sheu WH, Shin YA, Sim X, Smit JH, Smith AV, Sosa MX, Spector TD, Stančáková A, Stanton AV, Stirrups KE, Stringham HM, Sundstrom J, Swift AJ, Syvänen AC, Tai ES, Tanaka T, Tarasov KV, Teumer A, Thorsteinsdottir U, Tobin MD, Tremoli E, Uitterlinden AG, Uusitupa M, Vaez A, Vaidya D, van Duijn CM, van Iperen EP, Vasan RS, Verwoert GC, Virtamo J, Vitart V, Voight BF, Vollenweider P, Wagner A, Wain LV, Wareham NJ, Watkins H, Weder AB, Westra HJ, Wilks R, Wilsgaard T, Wilson JF, Wong TY, Yang TP, Yao J, Yengo L, Zhang W, Zhao JH, Zhu X, Bovet P, Cooper RS, Mohlke KL, Saleheen D, Lee JY, Elliott P, Gierman HJ, Willer CJ, Franke L, Hovingh GK, Taylor KD, Dedoussis G, Sever P, Wong A, Lind L, Assimes TL, Njølstad I, Schwarz PE, Langenberg C, Snieder H, Caulfield MJ, Melander O, Laakso M, Saltevo J, Rauramaa R, Tuomilehto J, Ingelsson E, Lehtimäki T, Hveem K, Palmas W, März W, Kumari M, Salomaa V, Chen YI, Rotter JI, Froguel P, Jarvelin MR, Lakatta EG,

- Kuulasmaa K, Franks PW, Hamsten A, Wichmann HE, Palmer CN, Stefansson K, Ridker PM, Loos RJ, Chakravarti A, Deloukas P, Morris AP, Newton-Cheh C, Munroe PB. The genetics of blood pressure regulation and its target organs from association studies in 342,415 individuals. **Nat Genet** 2016;48:1171-1184. doi: 10.1038/ng.3667.
236. Surendran P, Drenos F, Young R, Warren H, Cook JP, Manning AK, Grarup N, Sim X, Barnes DR, Witkowska K, Staley JR, Tragante V, Tukiainen T, Yaghootkar H, Masca N, Freitag DF, Ferreira T, Giannakopoulou O, Tinker A, Harakalova M, Mihailov E, Liu C, Kraja AT, Nielsen SF, Rasheed A, Samuel M, Zhao W, Bonnycastle LL, Jackson AU, Narisu N, Swift AJ, Southam L, Marten J, Huyghe JR, Stančáková A, Fava C, Ohlsson T, Matchan A, Stirrups KE, Bork-Jensen J, Gjesing AP, Kontto J, Perola M, Shaw-Hawkins S, Havulinna AS, Zhang H, Donnelly LA, Groves CJ, Rayner NW, Neville MJ, Robertson NR, Yiorkas AM, Herzig KH, Kajantie E, Zhang W, Willems SM, Lannfelt L, Malerba G, Soranzo N, Trabetti E, Verweij N, Evangelou E, Moayyeri A, Vergnaud AC, Nelson CP, Poveda A, Varga TV, Caslake M, de Craen AJ, Trompet S, Luan J, Scott RA, Harris SE, Liewald DC, Marioni R, Menni C, Farmaki AE, Hallmans G, Renström F, Huffman JE, Hassinen M, Burgess S, Vasan RS, Felix JF; CHARGE-Heart Failure Consortium, Uria-Nickelsen M, Malarstig A, Reilly DF, Hoek M, Vogt TF, Lin H, Lieb W; EchoGen Consortium, Traylor M, Markus HS; METASTROKE Consortium, Highland HM, Justice AE, Marouli E; GIANT Consortium, Lindström J, Uusitupa M, Komulainen P, Lakka TA, Rauramaa R, Polasek O, Rudan I, Rolandsson O, Franks PW, Dedoussis G, Spector TD; EPIC-InterAct Consortium, Jousilahti P, Männistö S, Deary IJ, Starr JM, Langenberg C, Wareham NJ, Brown MJ, Dominiczak AF, Connell JM, Jukema JW, Sattar N, Ford I, Packard CJ, Esko T, Mägi R, Metspalu A, de Boer RA, van der Meer P, van der Harst P; Lifelines Cohort Study, Gambaro G, Ingelsson E, Lind L, de Bakker PI, Numans ME, Brandslund I, Christensen C, Petersen ER, Korpi-Hyövälty E, Oksa H, Chambers JC, Kooner JS, Blakemore AI, Franks S, Jarvelin MR, Husemoen LL, Linneberg A, Skaaby T, Thuesen B, Karpe F, Tuomilehto J, Doney AS, Morris AD, Palmer CN, Holmen OL, Hveem K, Willer CJ, Tuomi T, Groop L, Käräjämäki A, Palotie A, Ripatti S, Salomaa V, Alam DS, Majumder AA, Di Angelantonio E, Chowdhury R, McCarthy MI, Poulter N, Stanton AV, Sever P, Amouyel P, Arveiler D, Blankenberg S, Ferrières J, Kee F, Kuulasmaa K, Müller-Nurasyid M, Veronesi G, Virtamo J, Deloukas P; Wellcome Trust Case Control Consortium, Elliott P; Understanding Society Scientific Group, Zeggini E, Kathiresan S, Melander O, Kuusisto J, Laakso M, Padmanabhan S, Porteous DJ, Hayward C, Scotland G, Collins FS, Mohlke KL, Hansen T, Pedersen O, Boehnke M, Stringham HM; EPIC-CVD Consortium, Frossard P, Newton-Cheh C; CHARGE+ Exome Chip Blood Pressure Consortium, Tobin MD, Nordestgaard BG; T2D-GENES Consortium; Got2DGenes Consortium; ExomeBP Consortium; CHD Exome+ Consortium, Caulfield MJ, Mahajan A, Morris AP, Tomaszewski M, Samani NJ, Saleheen D, Asselbergs FW, Lindgren CM, Danesh J, Wain LV, Butterworth AS, Howson JM, Munroe PB. Trans-ancestry meta-analyses identify rare and common variants associated with blood pressure and hypertension. **Nat Genet** 2016;48:1151-1161. doi: 10.1038/ng.3654.
237. Haapala EA, Viitasalo A, Venäläinen T, Eloranta AM, Ågren J, Lindi V, Lakka T. Plasma polyunsaturated fatty acids are directly associated with cognition in overweight children but not in normal weight children. **Acta Paediatr** 2016;105:1502-1507. doi: 10.1111/apa.13596.
238. Horikoshi M, Beaumont RN, Day FR, Warrington NM, Kooijman MN, Fernandez-Tajes J, Feenstra B, van Zuydam NR, Gaulton KJ, Grarup N, Bradfield JP, Strachan DP, Li-Gao R, Ahluwalia TS, Kreiner E, Rueedi R, Lyytikäinen LP, Cousminer DL, Wu Y, Thiering E, Wang CA, Have CT, Hottenga JJ, Vilor-Tejedor N, Joshi PK, Boh ETH, Ntalla I, Pitkänen N, Mahajan A, van Leeuwen EM, Joro R, Lagou V, Nodzenski M, Diver LA, Zondervan KT, Bustamante M, Marques-Vidal P, Mercader JM, Bennett AJ, Rahmioglu N, Nyholt DR, Ma

RCW, Tam CHT, Tam WH, CHARGE Consortium Hematology Working Group, Ganesh SK, van Rooij FJA, Jones DE, Loh PR, Ruth KS, Tuke MA, Tyrrell J, Wood AR, Yaghootkar H, Scholtens DM, Paternoster L, Prokopenko I, Kovacs P, Atalay M, Willems SM, Panoutsopoulou K, Wang X, Carstensen L, Geller F, Schraut KE, Murcia M, van Beijsterveldt CEM, Willemsen G, Appel EVR, Fonvig CE, Trier C, Tiesler CMT, Standl M, Katalik Z, Bonas-Guarch S, Hougaard DM, Sánchez F, Torrents D, Waage J, Hollegaard MV, de Haan HG, Rosendaal FR, Medina-Gomez C, Ring SM, Hemani G, McMahon G, Robertson NR, Groves CJ, Langenberg C, Luan J, Scott RA, Zhao JH, Mentch FD, MacKenzie SM, Reynolds RM, Early Growth Genetics (EGG) Consortium, Lowe Jr WL, Tönjes A, Stumvoll M, Lindi V, Lakka TA, van Duijn CM, Kiess W, Körner A, Sørensen TIA, Niinikoski H, Pahkala K, Raitakari OT, Zeggini E, Dedoussis GV, Teo YY, Saw SM, Melbye M, Campbell H, Wilson JF, Vrijheid M, de Geus EJCN, Boomsma DI, Kadarmideen HN, Holm JC, Hansen T, Sebert S, Hattersley AT, Beilin LJ, Newnham JP, Pennell CE, Heinrich J, Adair LS, Borja JB, Mohlke KL, Eriksson JG, Widén EE, Kähönen M, Viikari JS, Lehtimäki T, Vollenweider P, Bønnelykke K, Bisgaard H, Mook-Kanamori DO, Hofman A, Rivadeneira F, Uitterlinden AG, Pisinger C, Pedersen O, Power C, Hyppönen E, Wareham NJ, Hakonarson H, Davies E, Walker BR, Jaddoe VWV, Jarvelin MR, Grant SFA, Vaag AA, Lawlor DA, Frayling TM, Smith GD, Morris AP, Ong KK, Felix JF, Timpson NJ, Perry JRB, Evans DM, McCarthy MI, Freathy RM. Genome-wide associations for birth weight and correlations with adult disease. **Nature** **2016**;538:248-252. doi:10.1038/nature19806.

239. Eloranta AM, Venäläinen T, Soininen S, Jalkanen H, Kiiskinen S, Schwab U, Lakka TA, Lindi V. Food sources of energy and nutrients in Finnish girls and boys 6-8 years of age - the PANIC study. **Food Nutr Res** **2016**;60:32444. doi: 10.3402/fnr.v60.32444.
240. Ried JS, Jeff M J, Chu AY, Bragg-Gresham JL, van Dongen J, Huffman JE, Ahluwalia TS, Cadby G, Eklund N, Eriksson J, Esko T, Feitosa MF, Goel A, Gorski M, Hayward C, Heard-Costa NL, Jackson AU, Jokinen E, Kanoni S, Kristiansson K, Katalik Z, Lahti J, Luan J, Mägi R, Mahajan A, Mangino M, Medina-Gomez C, Monda KL, Nolte IM, Pérusse L, Prokopenko I, Qi L, Rose LM, Salvi E, Smith MT, Snieder H, Stančáková A, Ju Sung Y, Tachmazidou I, Teumer A, Thorleifsson G, van der Harst P, Walker RW, Wang SR, Wild SH, Willems SM, Wong A, Zhang W, Albrecht E, Couto Alves A, Bakker SJ, Barlassina C, Bartz TM, Beilby J, Bellis C, Bergman RN, Bergmann S, Blangero J, Blüher M, Boerwinkle E, Bonnycastle LL, Bornstein SR, Bruinenberg M, Campbell H, Chen YI, Chiang CW, Chines PS, Collins FS, Cucca F, Cupples LA, D'Avila F, de Geus EJ, Dedoussis G, Dimitriou M, Döring A, Eriksson JG, Farmaki AE, Farrall M, Ferreira T, Fischer K, Forouhi NG, Friedrich N, Gjesing AP, Glorioso N, Graff M, Grallert H, Grarup N, Gräßler J, Grewal J, Hamsten A, Harder MN, Hartman CA, Hassinen M, Hastie N, Hattersley AT, Havulinna AS, Heliövaara M, Hillege H, Hofman A, Holmen O, Homuth G, Hottenga JJ, Hui J, Husemoen LL, Hysi PG, Isaacs A, Ittermann T, Jalilzadeh S, James AL, Jørgensen T, Jousilahti P, Jula A, Marie Justesen J, Justice AE, Kähönen M, Karaleftheri M, Tee Khaw K, Keinanen-Kiukaanniemi SM, Kinnunen L, Knekt PB, Koistinen HA, Kolcic I, Kooner IK, Koskinen S, Kovacs P, Kyriakou T, Laitinen T, Langenberg C, Lewin AM, Lichtner P, Lindgren CM, Lindström J, Linneberg A, Lorbeer R, Lorentzon M, Luben R, Lyssenko V, Männistö S, Manunta P, Leach IM, McArdle WL, McKnight B, Mohlke KL, Mihailov E, Milani L, Mills R, Montasser ME, Morris AP, Müller G, Musk AW, Narisu N, Ong KK, Oostra BA, Osmond C, Palotie A, Pankow JS, Paternoster L, Penninx BW, Pichler I, Pilia MG, Polasek O, Pramstaller PP, Raitakari OT, Rankinen T, Rao DC, Rayner NW, Ribel-Madsen R, Rice TK, Richards M, Ridker PM, Rivadeneira F, Ryan KA, Sanna S, Sarzynski MA, Scholtens S, Scott RA, Sebert S, Southam L, Sparsø TH, Steinthorsdottir V, Stirrups K, Stolk RP, Strauch K, Stringham HM, Swertz MA, Swift AJ,

- Tönjes A, Tsafantakis E, van der Most PJ, Van Vliet-Ostaptchouk JV, Vandenput L, Vartiainen E, Venturini C, Verweij N, Viikari JS, Vitart V, Vohl MC, Vonk JM, Waeber G, Widén E, Willemse G, Wilsgaard T, Winkler TW, Wright AF, Yerges-Armstrong LM, Hua Zhao J, Carola Zillikens M, Boomsma DI, Bouchard C, Chambers JC, Chasman DI, Cusi D, Gansevoort RT, Gieger C, Hansen T, Hicks AA, Hu F, Hveem K, Jarvelin MR, Kajantie E, Kooper JS, Kuh D, Kuusisto J, Laakso M, Lakka TA, Lehtimäki T, Metspalu A, Njølstad I, Ohlsson C, Oldehinkel AJ, Palmer LJ, Pedersen O, Perola M, Peters A, Psaty BM, Puolijoki H, Rauramaa R, Rudan I, Salomaa V, Schwarz PE, Shudiner AR, Smit JH, Sørensen TI, Spector TD, Stefansson K, Stumvoll M, Tremblay A, Tuomilehto J, Uitterlinden AG, Uusitupa M, Völker U, Vollenweider P, Wareham NJ, Watkins H, Wilson JF, Zeggini E, Abecasis GR, Boehnke M, Borecki IB, Deloukas P, van Duijn CM, Fox C, Groop LC, Heid IM, Hunter DJ, Kaplan RC, McCarthy MI, North KE, O'Connell JR, Schlessinger D, Thorsteinsdottir U, Strachan DP, Frayling T, Hirschhorn JN, Müller-Nurasyid M, Loos RJ. A principal component meta-analysis on multiple anthropometric traits identifies novel loci for body shape. **Nat Commun** 2016;7:13357. doi: 10.1038/ncomms13357.
241. Hinney A, Kesselmeier M, Jall S, Volckmar A-L, Föcker M, Antel J; GCAN28; WTCCC3, Heid IM, Winkler TW; GIANT; Grant SF; EGG (Lakka TA as a collaborator), Guo Y, Bergen AW, Kaye W, Berrettini W, Hakonarson H; Price Foundation Collaborative Group; Children's Hospital of Philadelphia/Price Foundation, Herpertz-Dahlmann B, de Zwaan M, Herzog W, Ehrlich S, Zipfel S, Egberts KM, Adan R, Brandys M, van Elburg A, Boraska Perica V, Franklin CS, Tschöp MH, Zeggini E, Bulik CM, Collier D, Scherag A, Müller TD, Hebebrand J. Evidence for three genetic loci involved in both anorexia nervosa risk and variation of body mass index. **Mol Psychiatry** 2017;22:192-201. doi: 10.1038/mp.2016.71.
242. Hagnäs MJ, Lakka TA, Kurl S, Rauramaa R, Mäkipallio TH, Savonen K, Laukkonen JA. Cardiorespiratory fitness and exercise-induced ST segment depression in assessing the risk of sudden cardiac death in men. **Heart** 2017;103:383-389. doi: 10.1136/heartjnl-2015-309217.
243. Haapala EA, Eloranta AM, Venäläinen T, Jalkanen H, Poikkeus AM, Ahonen T, Lindi V, Lakka TA. Diet quality and academic achievement – A prospective study among primary school children. **Eur J Nutr** 2017;56:2299-2308. doi: 10.1007/s00394-016-1270-5.
244. Collings PJ, Westgate K, Väistö J, Wijndaele K, Atkin AJ, Haapala EA, Lintu N, Laitinen T, Ekelund U, Brage S, Lakka TA. Cross-sectional associations of objectively-measured physical activity and sedentary time with body composition and cardiorespiratory fitness in mid-childhood: The PANIC Study. **Sports Med** 2017;47:769-780.
245. Haapala EA, Väistö J, Lintu N, Westgate K, Ekelund U, Poikkeus AM, Brage S, Lakka TA. Physical activity and sedentary time in relation to academic achievement in children. **J Sci Med Sport** 2017;20:583-589. doi: 10.1016/j.jsams.2016.11.003.
246. Länsimies H, Halkoaho A, Pietilä AM, Lintu N, Kangasniemi M, Eloranta AM, Viitasalo A, Lakka TA. Is there a duty to participate in a health research? – A viewpoint of children 6-8 years of age and their parents? **Int Diabetes Nurs** 2017. doi: 10.1080/20573316.2016.1274170.
247. Marouli E, Graff M, Medina-Gomez C, Lo KS, Wood AR, Kjaer TR, Fine RS, Lu Y, Schurmann C, Highland HM, Rüeger S, Thorleifsson G, Justice AE, Lamparter D, Stirrups KE, Turcot V, Young KL, Winkler TW, Esko T, Karaderi T, Locke AE, Masca NG, Ng MC, Mudgal P, Rivas MA, Vedantam S, Mahajan A, Guo X, Abecasis G, Aben KK, Adair LS, Alam DS, Albrecht E, Allin KH, Allison M, Amouyel P, Appel EV, Arveiler D, Asselbergs FW, Auer PL, Balkau B, Banas B, Bang LE, Benn M, Bergmann S, Bielak LF, Blüher M, Boeing H, Boerwinkle E, Böger CA, Bonnycastle LL, Bork-Jensen J, Bots ML, Bottinger EP,

Bowden DW, Brandslund I, Breen G, Brilliant MH, Broer L, Burt AA, Butterworth AS, Carey DJ, Caulfield MJ, Chambers JC, Chasman DI, Chen YI, Chowdhury R, Christensen C, Chu AY, Cocca M, Collins FS, Cook JP, Corley J, Galbany JC, Cox AJ, Cuellar-Partida G, Danesh J, Davies G, de Bakker PI, de Borst GJ, de Denus S, de Groot MC, de Mutsert R, Deary IJ, Dedoussis G, Demerath EW, den Hollander AI, Dennis JG, Di Angelantonio E, Drenos F, Du M, Dunning AM, Easton DF, Ebeling T, Edwards TL, Ellinor PT, Elliott P, Evangelou E, Farmaki AE, Faul JD, Feitosa MF, Feng S, Ferrannini E, Ferrario MM, Ferrieres J, Florez JC, Ford I, Fornage M, Franks PW, Frikke-Schmidt R, Galesloot TE, Gan W, Gandin I, Gasparini P, Giedraitis V, Giri A, Girotto G, Gordon SD, Gordon-Larsen P, Gorski M, Grarup N, Grove ML, Gudnason V, Gustafsson S, Hansen T, Harris KM, Harris TB, Hattersley AT, Hayward C, He L, Heid IM, Heikkilä K, Helgeland Ø, Hernesniemi J, Hewitt AW, Hocking LJ, Hollensted M, Holmen OL, Hovingh GK, Howson JM, Hoyng CB, Huang PL, Hveem K, Ikram MA, Ingelsson E, Jackson AU, Jansson JH, Jarvik GP, Jensen GB, Jhun MA, Jia Y, Jiang X, Johansson S, Jørgensen ME, Jørgensen T, Jousilahti P, Jukema JW, Kahali B, Kahn RS, Kähönen M, Kamstrup PR, Kanoni S, Kaprio J, Karaleftheri M, Kardia SL, Karpe F, Kee F, Keeman R, Kiemeney LA, Kitajima H, Kluivers KB, Kocher T, Komulainen P, Kontto J, Kooner JS, Kooperberg C, Kovacs P, Kriebel J, Kuivaniemi H, Küry S, Kuusisto J, La Bianca M, Laakso M, Lakka TA, Lange EM, Lange LA, Langefeld CD, Langenberg C, Larson EB, Lee IT, Lehtimäki T, Lewis CE, Li H, Li J, Li-Gao R, Lin H, Lin LA, Lin X, Lind L, Lindström J, Linneberg A, Liu Y, Liu Y, Lophatananon A, Luan J, Lubitz SA, Lyytikäinen LP, Mackey DA, Madden PA, Manning AK, Männistö S, Marenne G, Marten J, Martin NG, Mazul AL, Meidtner K, Metspalu A, Mitchell P, Mohlke KL, Mook- Kanamori DO, Morgan A, Morris AD, Morris AP, Müller-Nurasyid M, Munroe PB, Nalls MA, Nauck M, Nelson CP, Neville M, Nielsen SF, Nikus K, Njølstad PR, Nordestgaard BG, Ntalla I, O'Connel JR, Oksa H, Loohuis LM, Ophoff RA, Owen KR, Packard CJ, Padmanabhan S, Palmer CN, Pasterkamp G, Patel AP, Pattie A, Pedersen O, Peissig PL, Peloso GM, Pennell CE, Perola M, Perry JA, Perry JR, Person TN, Pirie A, Polasek O, Posthuma D, Raitakari OT, Rasheed A, Rauramaa R, Reilly DF, Reiner AP, Renström F, Ridker PM, Rioux JD, Robertson N, Robino A, Rolandsson O, Rudan I, Ruth KS, Saleheen D, Salomaa V, Samani NJ, Sandow K, Sapkota Y, Sattar N, Schmidt MK, Schreiner PJ, Schulze MB, Scott RA, Segura-Lepe MP, Shah S, Sim X, Sivapalaratnam S, Small KS, Smith AV, Smith JA, Southam L, Spector TD, Speliotes EK, Starr JM, Steinthorsdottir V, Stringham HM, Stumvoll M, Surendran P, 't Hart LM, Tansey KE, Tardif JC, Taylor KD, Teumer A, Thompson DJ, Thorsteinsdottir U, Thuesen BH, Tönjes A, Tromp G, Trompet S, Tsafantakis E, Tuomilehto J, Tybjaerg-Hansen A, Tyrer JP, Uher R, Uitterlinden AG, Ulivi S, van der Laan SW, Van Der Leij AR, van Duijn CM, van Schoor NM, van Setten J, Varbo A, Varga TV, Varma R, Edwards DR, Vermeulen SH, Vestergaard H, Vitart V, Vogt TF, Vozzi D, Walker M, Wang F, Wang CA, Wang S, Wang Y, Wareham NJ, Warren HR, Wessel J, Willems SM, Wilson JG, Witte DR, Woods MO, Wu Y, Yaghootkar H, Yao J, Yao P, Yerges-Armstrong LM, Young R, Zeggini E, Zhan X, Zhang W, Zhao JH, Zhao W, Zhao W, Zheng H, Zhou W; EPIC-InterAct Consortium.; CHD Exome+ Consortium.; ExomeBP Consortium.; T2D-Genes Consortium.; GoT2D Genes Consortium.; Global Lipids Genetics Consortium.; ReproGen Consortium.; MAGIC Investigators., Rotter JI, Boehnke M, Kathiresan S, McCarthy MI, Willer CJ, Stefansson K, Borecki IB, Liu DJ, North KE, Heard-Costa NL, Pers TH, Lindgren CM, Oxvig C, Kutalik Z, Rivadeneira F, Loos RJ, Frayling TM, Hirschhorn JN, Deloukas P, Lettre G. Rare and low-frequency coding variants alter human adult height. **Nature** 2017;542:186-190. doi: 10.1038/nature21039.

248. Haapala EA, Väistö J, Veijalainen A, Lintu N, Wiklund P, Westgate K, Ekelund U, Lindi V, Brage S, Lakka TA. Associations of objectively measured physical activity and sedentary time with arterial stiffness in pre-pubertal children. **Pediatr Exerc Sci** 2017;29:326-335. doi:

10.1123/pes.2016-0168.

249. Lampinen EK, Eloranta AM, Haapala EA, Lindi V, Väistö J, Lintu N, Karjalainen P, Kukkonen-Harjula K, Laaksonen D, Lakka TA. Physical activity, sedentary behaviour, and socioeconomic status among Finnish girls and boys aged 6–8 years. **Eur J Sport Sci** 2017; 17:462-472. doi: 10.1080/17461391.2017.1294619.
250. Määttä S, Könönen M, Kallioniemi E, Lakka T, Lintu N, Lindi V, Ferreri F, Ponzo D, Säisänen L. Development of cortical motor circuits between childhood and adulthood: a navigated TMS-HdEEG study. **Hum Brain Mapp** 2017;38:2599-2615. doi: 10.1002/hbm.23545.
251. Jalkanen H, Lindi V, Schwab U, Kiiskinen S, Venäläinen T, Karhunen L, Lakka TA, Eloranta AM. Eating behaviour is associated with eating frequency and food consumption in 6-8 years old children: the Physical Activity and Nutrition in Children (PANIC) Study. **Appetite** 2017;114:28-37. doi: 10.1016/j.appet.2017.03.011.
252. Manning A, Highland HM, Gasser J, Sim X, Tukiainen T, Fontanillas P, Grarup N, Rivas MA, Mahajan A, Locke AE, Cingolani P, Pers TH, Viñuela A, Brown AA, Wu Y, Flannick J, Fuchsberger C, Gamazon ER, Gaulton KJ, Im HK, Teslovich TM, Blackwell TW, Bork-Jensen J, Burtt NP, Chen Y, Green T, Hartl C, Kang HM, Kumar A, Ladenvall C, Ma C, Moutsianas L, Pearson RD, Perry JR, Rayner NW, Robertson NR, Scott LJ, van de Bunt M, Eriksson JG, Jula A, Koskinen S, Lehtimäki T, Palotie A, Raitakari OT, Jacobs SB, Wessel J, Chu AY, Scott RA, Goodarzi MO, Blancher C, Buck G, Buck D, Chines PS, Gabriel S, Gjesing AP, Groves CJ, Hollensted M, Huyghe JR, Jackson AU, Jun G, Justesen JM, Mangino M, Murphy J, Neville M, Onofrio R, Small KS, Stringham HM, Trakalo J, Banks E, Carey J, Carneiro MO, DePristo M, Farjoun Y, Fennell T, Goldstein JI, Grant G, Hrabé de Angelis M, Maguire J, Neale BM, Poplin R, Purcell S, Schwarzmayr T, Shakir K, Smith JD, Strom TM, Wieland T, Lindstrom J, Brandslund I, Christensen C, Surdulescu GL, Lakka TA, Doney AS, Nilsson P, Wareham NJ, Langenberg C, Varga TV, Franks PW, Rolandsson O, Rosengren AH, Farook VS, Thameem F, Puppala S, Kumar S, Lehman DM, Jenkinson CP, Curran JE, Hale DE, Fowler SP, Arya R, DeFronzo RA, Abboud HE, Syvänen AC, Hicks PJ, Palmer ND, Ng MC, Bowden DW, Freedman BI, Esko T, Mägi R, Milani L, Mihailov E, Metspalu A, Narisu N, Kinnunen L, Bonnycastle LL, Swift A, Pasko D, Wood AR, Fadista J, Pollin TI, Barzilai N, Atzmon G, Glaser B, Thorand B, Strauch K, Peters A, Roden M, Müller-Nurasyid M, Liang L, Kriebel J, Illig T, Grallert H, Gieger C, Meisinger C, Lannfelt L, Musani SK, Griswold M, Taylor HA Jr, Wilson G Sr, Correa A, Oksa H, Scott WR, Afzal U, Tan ST, Loh M, Chambers JC, Sehmi J, Kooner JS, Lehne B, Cho YS, Lee JY, Han BG, Käräjämäki A, Qi Q, Qi L, Huang J, Hu FB, Melander O, Orho-Melander M, Below JE, Aguilar D, Wong TY, Liu J, Khor CC, Chia KS, Lim WY, Cheng CY, Chan E, Tai ES, Aung T, Linneberg A, Isomaa B, Meitinger T, Tuomi T, Hakaste L, Kravic J, Jørgensen ME, Lauritzen T, Deloukas P, Stirrups KE, Owen KR, Farmer AJ, Frayling TM, O'Rahilly SP, Walker M, Levy JC, Hodgkiss D, Hattersley AT, Kuulasmaa T, Stančáková A, Barroso I, Bharadwaj D, Chan J, Chandak GR, Daly MJ, Donnelly PJ, Ebrahim SB, Elliott P, Fingerlin T, Froguel P, Hu C, Jia W, Ma RC, McVean G, Park T, Prabhakaran D, Sandhu M, Scott J, Sladek R, Tandon N, Teo YY, Zeggini E, Watanabe RM, Koistinen HA, Kesaniemi YA, Uusitupa M, Spector TD, Salomaa V, Rauramaa R, Palmer CN, Prokopenko I, Morris AD, Bergman RN, Collins FS, Lind L, Ingelsson E, Tuomilehto J, Karpe F, Groop L, Jørgensen T, Hansen T, Pedersen O, Kuusisto J, Abecasis G, Bell GI, Blangero J, Cox NJ, Duggirala R, Seielstad M, Wilson JG, Dupuis J, Ripatti S, Hanis CL, Florez JC, Mohlke KL, Meigs JB, Laakso M, Morris AP, Boehnke M, Altshuler D, McCarthy MI, Gloyn AL, Lindgren CM. A low-frequency inactivating AKT2 variant enriched in the Finnish population is associated with fasting insulin levels and type 2 diabetes risk. **Diabetes**

2017;66:2019-2032. doi: 10.2337/db16-1329.

253. Justice AE, Winkler TW, Feitosa MF, Graff M, Fisher VA, Young K, Barata L, Deng X, Czajkowski J, Hadley D, Ngwa JS, Ahluwalia TS, Chu AY, Heard-Costa NL, Lim E, Perez J, Eicher JD, Katalik Z, Xue L, Mahajan A, Renström F, Wu J, Qi Q, Ahmad S, Alfred T, Amin N, Bielak LF, Bonnefond A, Bragg J, Cadby G, Chittani M, Coggeshall S, Corre T, Direk N, Eriksson J, Fischer K, Gorski M, Neergaard Harder M, Horikoshi M, Huang T, Huffman JE, Jackson AU, Justesen JM, Kanoni S, Kinnunen L, Kleber ME, Komulainen P, Kumari M, Lim U, Luan J, Lyytikäinen LP, Mangino M, Manichaikul A, Marten J, Middelberg RPS, Müller-Nurasyid M, Navarro P, Pérusse L, Pervjakova N, Sarti C, Smith AV, Smith JA, Stančáková A, Strawbridge RJ, Stringham HM, Sung YJ, Tanaka T, Teumer A, Trompet S, van der Laan SW, van der Most PJ, Van Vliet-Ostaptchouk JV, Vedantam SL, Verweij N, Vink JM, Vitart V, Wu Y, Yengo L, Zhang W, Hua Zhao J, Zimmermann ME, Zubair N, Abecasis GR, Adair LS, Afaq S, Afzal U, Bakker SJL, Bartz TM, Beilby J, Bergman RN, Bergmann S, Biffar R, Blangero J, Boerwinkle E, Bonnycastle LL, Bottinger E, Braga D, Buckley BM, Buyske S, Campbell H, Chambers JC, Collins FS, Curran JE, de Borst GJ, de Craen AJM, de Geus EJC, Dedoussis G, Delgado GE, den Ruijter HM, Eiriksdottir G, Eriksson AL, Esko T, Faul JD, Ford I, Forrester T, Gertow K, Gigante B, Glorioso N, Gong J, Grallert H, Grammer TB, Grarup N, Haitjema S, Hallmans G, Hamsten A, Hansen T, Harris TB, Hartman CA, Hassinen M, Hastie ND, Heath AC, Hernandez D, Hindorff L, Hocking LJ, Hollensted M, Holmen OL, Homuth G, Jan Hottenga J, Huang J, Hung J, Hutri-Kähönen N, Ingelsson E, James AL, Jansson JO, Jarvelin MR, Jhun MA, Jørgensen ME, Juonala M, Kähönen M, Karlsson M, Koistinen HA, Kolcic I, Kolovou G, Kooperberg C, Krämer BK, Kuusisto J, Kvaløy K, Lakka TA, Langenberg C, Launer LJ, Leander K, Lee NR, Lind L, Lindgren CM, Linneberg A, Lobbens S, Loh M, Lorentzon M, Luben R, Lubke G, Ludolph-Donislawska A, Lupoli S, Madden PAF, Männikkö R, Marques-Vidal P, Martin NG, McKenzie CA, McKnight B, Mellström D, Menni C, Montgomery GW, Musk AB, Narisu N, Nauck M, Nolte IM, Oldehinkel AJ, Olden M, Ong KK, Padmanabhan S, Peyser PA, Pisinger C, Porteous DJ, Raitakari OT, Rankinen T, Rao DC, Rasmussen-Torvik LJ, Rawal R, Rice T, Ridker PM, Rose LM, Bien SA, Rudan I, Sanna S, Sarzynski MA, Sattar N, Savonen K, Schlessinger D, Scholtens S, Schurmann C, Scott RA, Sennblad B, Siemelink MA, Silbernagel G, Slagboom PE, Snieder H, Staessen JA, Stott DJ, Swertz MA, Swift AJ, Taylor KD, Tayo BO, Thorand B, Thuillier D, Tuomilehto J, Uitterlinden AG, Vandendput L, Vohl MC, Völzke H, Vonk JM, Waeber G, Waldenberger M, Westendorp RGJ, Wild S, Willemse G, Wolffendebittel BHR, Wong A, Wright AF, Zhao W, Zillikens MC, Baldassarre D, Balkau B, Bandinelli S, Böger CA, Boomsma DI, Bouchard C, Bruinenberg M, Chasman DI, Chen YD, Chines PS, Cooper RS, Cucca F, Cusi D, Faire U, Ferrucci L, Franks PW, Froguel P, Gordon-Larsen P, Grabe HJ, Gudnason V, Haiman CA, Hayward C, Hveem K, Johnson AD, Wouter Jukema J, Kardia SLR, Kivimaki M, Kooner JS, Kuh D, Laakso M, Lehtimäki T, Marchand LL, März W, McCarthy MI, Metspalu A, Morris AP, Ohlsson C, Palmer LJ, Pasterkamp G, Pedersen O, Peters A, Peters U, Polasek O, Psaty BM, Qi L, Rauramaa R, Smith BH, Sørensen TIA, Strauch K, Tiemeier H, Tremoli E, van der Harst P, Vestergaard H, Vollenweider P, Wareham NJ, Weir DR, Whitfield JB, Wilson JF, Tyrrell J, Frayling TM, Barroso I, Boehnke M, Deloukas P, Fox CS, Hirschhorn JN, Hunter DJ, Spector TD, Strachan DP, van Duijn CM, Heid IM, Mohlke KL, Marchini J, Loos RJF, Kilpeläinen TO, Liu CT, Borecki IB, North KE, Cupples LA. Genome-wide meta-analysis of 241,258 adults accounting for smoking behaviour identifies novel loci for obesity traits. **Nat Commun** 2017;8:14977. doi: 10.1038/ncomms14977.
254. Vierola A, Suominen AL, Eloranta AM, Lintu N, Ikävalko T, Närhi M, Lakka TA. Determinants for craniofacial pains in children 6-8 years of age: the PANIC study. **Acta**

Odontol Scand 2017;75:453-460. doi: 10.1080/00016357.2017.1339908.

255. HPS3/TIMI55–REVEAL Collaborative Group (Lakka TA as a collaborator), Bowman L, Hopewell JC, Chen F, Wallendszus K, Stevens W, Collins R, Wiviott SD, Cannon CP, Braunwald E, Sammons E, Landray MJ. Effects of anacetrapib in patients with atherosclerotic vascular disease. **N Engl J Med** 2017;377:1217-1227. doi: 10.1056/NEJMoa1706444.
256. Graff M, Scott RA, Justice AE, Young KL, Feitosa MF, Barata L, Winkler TW, Chu AY, Mahajan A, Hadley D, Xue L, Workalemahu T, Heard-Costa NL, den Hoed M, Ahluwalia TS, Qi Q, Ngwa JS, Renström F, Quaye L, Eicher JD, Hayes JE, Cornelis M, Katalik Z, Lim E, Luan J, Huffman JE, Zhang W, Zhao W, Griffin PJ, Haller T, Ahmad S, Marques-Vidal PM, Bien S, Yengo L, Teumer A, Smith AV, Kumari M, Harder MN, Justesen JM, Kleber ME, Hollensted M, Lohman K, Rivera NV, Whitfield JB, Zhao JH, Stringham HM, Lyytikäinen LP, Huppertz C, Willemsen G, Peyrot WJ, Wu Y, Kristiansson K, Demirkan A, Fornage M, Hassinen M, Bielak LF, Cadby G, Tanaka T, Mägi R, van der Most PJ, Jackson AU, Bragg-Gresham JL, Vitart V, Marten J, Navarro P, Bellis C, Pasko D, Johansson Å, Snitker S, Cheng YC, Eriksson J, Lim U, Aadahl M, Adair LS, Amin N, Balkau B, Auvinen J, Beilby J, Bergman RN, Bergmann S, Bertoni AG, Blangero J, Bonnefond A, Bonnycastle LL, Borja JB, Brage S, Busonero F, Buyske S, Campbell H, Chines PS, Collins FS, Corre T, Smith GD, Delgado GE, Dueker N, Dörr M, Ebeling T, Eiriksdottir G, Esko T, Faul JD, Fu M, Færch K, Gieger C, Gläser S, Gong J, Gordon-Larsen P, Grallert H, Grammer TB, Grarup N, van Grootheest G, Harald K, Hastie ND, Havulinna AS, Hernandez D, Hindorff L, Hocking LJ, Holmens OL, Holzapfel C, Hottenga JJ, Huang J, Huang T, Hui J, Huth C, Hutri-Kähönen N, James AL, Jansson JO, Jhun MA, Juonala M, Kinnunen L, Koistinen HA, Kolcic I, Komulainen P, Kuusisto J, Kvaløy K, Kähönen M, Lakka TA, Launer LJ, Lehne B, Lindgren CM, Lorentzon M, Luben R, Marre M, Milaneschi Y, Monda KL, Montgomery GW, De Moor MHM, Mulas A, Müller-Nurasyid M, Musk AW, Männikkö R, Männistö S, Narisu N, Nauck M, Nettleton JA, Nolte IM, Oldehinkel AJ, Olden M, Ong KK, Padmanabhan S, Paternoster L, Perez J, Perola M, Peters A, Peters U, Peyser PA, Prokopenko I, Puolijoki H, Raitakari OT, Rankinen T, Rasmussen-Torvik LJ, Rawal R, Ridker PM, Rose LM, Rudan I, Sarti C, Sarzynski MA, Savonen K, Scott WR, Sanna S, Shuldiner AR, Sidney S, Silbernagel G, Smith BH, Smith JA, Snieder H, Stančáková A, Sternfeld B, Swift AJ, Tammelin T, Tan ST, Thorand B, Thuillier D, Vandenput L, Vestergaard H, van Vliet-Ostaptchouk JV, Vohl MC, Völker U, Waeber G, Walker M, Wild S, Wong A, Wright AF, Zillikens MC, Zubair N, Haiman CA, Lemarchand L, Gyllensten U, Ohlsson C, Hofman A, Rivadeneira F, Uitterlinden AG, Pérusse L, Wilson JF, Hayward C, Polasek O, Cucca F, Hveem K, Hartman CA, Tönjes A, Bandinelli S, Palmer LJ, Kardia SLR, Rauramaa R, Sørensen TIA, Tuomilehto J, Salomaa V, Penninx BWJH, de Geus EJC, Boomsma DI, Lehtimäki T, Mangino M, Laakso M, Bouchard C, Martin NG, Kuh D, Liu Y, Linneberg A, März W, Strauch K, Kivimäki M, Harris TB, Gudnason V, Völzke H, Qi L, Järvelin MR, Chambers JC, Kooner JS, Froguel P, Kooperberg C, Vollenweider P, Hallmans G, Hansen T, Pedersen O, Metspalu A, Wareham NJ, Langenberg C, Weir DR, Porteous DJ, Boerwinkle E, Chasman DI; CHARGE Consortium; EPIC-InterAct Consortium; PAGE Consortium, Abecasis GR, Barroso I, McCarthy MI, Frayling TM, O'Connell JR, van Duijn CM, Boehnke M, Heid IM, Mohlke KL, Strachan DP, Fox CS, Liu CT, Hirschhorn JN, Klein RJ, Johnson AD, Borecki IB, Franks PW, North KE, Cupples LA, Loos RJF, Kilpeläinen TO. Correction: Genome-wide physical activity interactions in adiposity - A meta-analysis of 200,452 adults. **PLoS Genet** 2017;13(8):e1006972. doi: 10.1371/journal.pgen.1006972.
257. Liu DJ, Peloso GM, Yu H, Butterworth AS, Wang X, Mahajan A, Saleheen D, Emdin C, Alam D, Alves AC, Amouyel P, Di Angelantonio E, Arveiler D, Assimes TL, Auer PL, Baber U,

- Ballantyne CM, Bang LE, Benn M, Bis JC, Boehnke M, Boerwinkle E, Bork-Jensen J, Bottinger EP, Brandslund I, Brown M, Busonero F, Caulfield MJ, Chambers JC, Chasman DI, Chen YE, Chen YI, Chowdhury R, Christensen C, Chu AY, Connell JM, Cucca F, Cupples LA, Damrauer SM, Davies G, Deary IJ, Dedoussis G, Denny JC, Dominiczak A, Dubé MP, Ebeling T, Eiriksdottir G, Esko T, Farmaki AE, Feitosa MF, Ferrario M, Ferrieres J, Ford I, Fornage M, Franks PW, Frayling TM, Frikkie-Schmidt R, Fritzsche LG, Frossard P, Fuster V, Ganesh SK, Gao W, Garcia ME, Gieger C, Giulianini F, Goodarzi MO, Grallert H, Grarup N, Groop L, Grove ML, Gudnason V, Hansen T, Harris TB, Hayward C, Hirschhorn JN, Holmen OL, Huffman J, Huo Y, Hveem K, Jabeen S, Jackson AU, Jakobsdottir J, Jarvelin MR, Jensen GB, Jørgensen ME, Jukema JW, Justesen JM, Kamstrup PR, Kanoni S, Karpe F, Kee F, Khera AV, Klarin D, Koistinen HA, Kooner JS, Kooperberg C, Kuulasmaa K, Kuusisto J, Laakso M, Lakka T, Langenberg C, Langsted A, Launer LJ, Lauritzen T, Liewald DCM, Lin LA, Linneberg A, Loos RJF, Lu Y, Lu X, Mägi R, Malarstig A, Manichaikul A, Manning AK, Mäntyselkä P, Marouli E, Masca NGD, Maschio A, Meigs JB, Melander O, Metspalu A, Morris AP, Morrison AC, Mulas A, Müller-Nurasyid M, Munroe PB, Neville MJ, Nielsen JB, Nielsen SF, Nordestgaard BG, Ordovas JM, Mehran R, O'Donnell CJ, Orho-Melander M, Molony CM, Muntendam P, Padmanabhan S, Palmer CNA, Pasko D, Patel AP, Pedersen O, Perola M, Peters A, Pisinger C, Pistis G, Polasek O, Poulter N, Psaty BM, Rader DJ, Rasheed A, Rauramaa R, Reilly DF, Reiner AP, Renström F, Rich SS, Ridker PM, Rioux JD, Robertson NR, Roden DM, Rotter JI, Rudan I, Salomaa V, Samani NJ, Sanna S, Sattar N, Schmidt EM, Scott RA, Sever P, Sevilla RS, Shaffer CM, Sim X, Sivapalaratnam S, Small KS, Smith AV, Smith BH, Somayajula S, Southam L, Spector TD, Speliotes EK, Starr JM, Stirrups KE, Stitzel N, Strauch K, Stringham HM, Surendran P, Tada H, Tall AR, Tang H, Tardif JC, Taylor KD, Trompet S, Tsao PS, Tuomilehto J, Tybjaerg-Hansen A, van Zuydam NR, Varbo A, Varga TV, Virtamo J, Waldenberger M, Wang N, Wareham NJ, Warren HR, Weeke PE, Weinstock J, Wessel J, Wilson JG, Wilson PWF, Xu M, Yaghootkar H, Young R, Zeggini E, Zhang H, Zheng NS, Zhang W, Zhang Y, Zhou W, Zhou Y, Zoledziewska M; Charge Diabetes Working Group; EPIC-InterAct Consortium; EPIC-CVD Consortium; GOLD Consortium; VA Million Veteran Program, Howson JMM, Danesh J, McCarthy MI, Cowan CA, Abecasis G, Deloukas P, Musunuru K, Willer CJ, Kathiresan S. Exome-wide association study of plasma lipids in >300,000 individuals. **Nat Genet** 2017;49:1758-1766. doi: 10.1038/ng.3977.
258. Kraja AT, Cook JP, Warren HR, Surendran P, Liu C, Evangelou E, Manning AK, Grarup N, Drenos F, Sim X, Smith AV, Amin N, Blakemore AIF, Bork-Jensen J, Brandslund I, Farmaki AE, Fava C, Ferreira T, Herzig KH, Giri A, Giulianini F, Grove ML, Guo X, Harris SE, Have CT, Havulinna AS, Zhang H, Jørgensen ME, Käräjämäki A, Kooperberg C, Linneberg A, Little L, Liu Y, Bonycastle LL, Lu Y, Mägi R, Mahajan A, Mallerba G, Marioni RE, Mei H, Menni C, Morrison AC, Padmanabhan S, Palmas W, Poveda A, Rauramaa R, Rayner NW, Riaz M, Rice K, Richard MA, Smith JA, Southam L, Stančáková A, Stirrups KE, Tragante V, Tuomi T, Tzoulaki I, Varga TV, Weiss S, Yiorkas AM, Young R, Zhang W, Barnes MR, Cabrera CP, Gao H, Boehnke M, Boerwinkle E, Chambers JC, Connell JM, Christensen CK, de Boer RA, Deary IJ, Dedoussis G, Deloukas P, Dominiczak AF, Dörr M, Joehanes R, Edwards TL, Esko T, Fornage M, Franceschini N, Franks PW, Gambaro G, Groop L, Hallmans G, Hansen T, Hayward C, Heikki O, Ingelsson E, Tuomilehto J, Jarvelin MR, Kardia SLR, Karpe F, Kooner JS, Lakka TA, Langenberg C, Lind L, Loos RJF, Laakso M, McCarthy MI, Melander O, Mohlke KL, Morris AP, Palmer CNA, Pedersen O, Polasek O, Poulter NR, Province MA, Psaty BM, Ridker PM, Rotter JI, Rudan I, Salomaa V, Samani NJ, Sever PJ, Skaaby T, Stafford JM, Starr JM, van der Harst P, van der Meer P; Understanding Society Scientific Group, van Duijn CM, Vergnaud AC, Gudnason V, Wareham NJ, Wilson JG, Willer CJ, Witte DR, Zeggini E, Saleheen D, Butterworth AS, Danesh J, Asselbergs FW, Wain LV,

- Ehret GB, Chasman DI, Caulfield MJ, Elliott P, Lindgren CM, Levy D, Newton-Cheh C, Munroe PB, Howson JMM; CHARGE EXOME BP, CHD Exome+, Exome BP, GoT2D:T2DGenes Consortia, The UK Biobank Cardio-Metabolic Traits Consortium Blood Pressure Working Group. New blood pressure-associated loci identified in meta-analyses of 475 000 individuals. *Circ Cardiovasc Genet* 2017;10(5). pii: e001778. doi: 10.1161/CIRCGENETICS.117.001778.
259. Tompuri T, Lintu N, Laitinen T, Lakka TA. Relation of oxygen uptake to work rate in prepubertal healthy children - reference for VO₂/W-slope and effect on cardiorespiratory fitness assessment. *Clin Physiol Funct Imaging* 2018;38:645-651. doi: 10.1111/cpf.12461.
260. Schnurr T, Viitasalo A, Eloranta AM, Damsgaard C, Mahendran Y, Have C, Väistö J, Hjorth M, Christensen L, Brage S, Atalay M, Lyytikäinen LP, Lindi V, Lakka TA, Michaelsen K, Kilpeläinen T, Hansen T. Genetic predisposition to adiposity is associated with increased objectively assessed sedentary time in young children. *Int J Obes* 2018;42:111-114. doi: 10.1038/ijo.2017.235.
261. Warrington NM, Richmond R, Myhre FBR, Gaillard R, Paternoster L, Wang CA, Beaumont RN, Das S, Murcia M, Barton SJ, Espinosa A, Thiering E, Atalay M, Pitkänen N, Ntalla I, Jonsson AE, Freathy R, Karhunen V, Tiesler CMT, Allard C, Crawford A, Ring SM, Melbye M, Magnus P, Rivadeneira F, Skotte L, Hansen T, Marsh J, Guxens M, Holloway JW, Grallert H, Jaddoe VWV, Lowe Jr WL, Roumeliotaki T, Hattersley AT, Lindi V, Pahkala K, Panoutsopoulou K, Standl M, Flexeder C, Bouchard L, Nohr EA, Santa Marina L, Kogevinas M, Niinikoski H, Dedoussis G, Heinrich J, Reynolds RM, Lakka TA, Zeggini E, Raitakari OT, Chatzi L, Inskip HM, Bustamante M, Hivert M-F, Jarvelin M-R, Sørensen TIA, Pennell G, Felix JF, Jacobsson B, Geller F, Evans DM, Lawlor DA for the Early Growth Genetics (EGG) consortium. Maternal and fetal genetic contribution to gestational weight gain. *Int J Obes* 2018;42:775-784. doi: 10.1038/ijo.2017.248.
262. Ikävalko T, Närhi M, Eloranta AM, Lintu N, Myllykangas R, Vierola A, Tuomilehto H, Lakka T, Pahkala R. Predictors of sleep disordered breathing in children: the PANIC study. *Eur J Orthod* 2018;40:268-272. doi: 10.1093/ejo/cjx056.
263. Mäntyselkä A, Jääskeläinen J, Eloranta AM, Väistö J, Voutilainen R, Ong K, Brage S, Lakka TA, Lindi V. Associations of lifestyle factors with serum dehydroepiandrosterone sulfate and insulin-like growth factor-1 concentration in prepubertal children. *Clin Endocrinol* 2018;88:234-242. doi: 10.1111/cen.13511.
264. Turcot V, Lu Y, Highland HM, Schurmann C, Justice AE, Fine RS, Bradfield JP, Esko T, Giri A, Graff M, Guo X, Hendricks AE, Karaderi T, Lempradl A, Locke AE, Mahajan A, Marouli E, Sivapalaratnam S, Young KL, Alfred T, Feitosa MF, Masca NGD, Manning AK, Medina-Gomez C, Mudgal P, Ng MCY, Reiner AP, Vedantam S, Willems SM, Winkler TW, Abecasis G, Aben KK, Alam DS, Alharthi SE, Allison M, Amouyel P, Asselbergs FW, Auer PL, Balkau B, Bang LE, Barroso I, Bastarache L, Benn M, Bergmann S, Bielak LF, Blüher M, Boehnke M, Boeing H, Boerwinkle E, Böger CA, Bork-Jensen J, Bots ML, Bottinger EP, Bowden DW, Brandslund I, Breen G, Brilliant MH, Broer L, Brumat M, Burt AA, Butterworth AS, Campbell PT, Cappellani S, Carey DJ, Catamo E, Caulfield MJ, Chambers JC, Chasman DI, Chen YI, Chowdhury R, Christensen C, Chu AY, Cocca M, Collins FS, Cook JP, Corley J, Corominas Galbany J, Cox AJ, Crosslin DS, Cuellar-Partida G, D'Eustachio A, Danesh J, Davies G, Bakker PIW, Groot MCH, Mutsert R, Deary IJ, Dedoussis G, Demerath EW, Heijer M, Hollander AI, Ruijter HM, Dennis JG, Denny JC, Angelantonio E, Drenos F, Du M, Dubé MP, Dunning AM, Easton DF, Edwards TL, Ellinghaus D, Ellinor PT, Elliott P, Evangelou E,

Farmaki AE, Farooqi IS, Faul JD, Fauser S, Feng S, Ferrannini E, Ferrieres J, Florez JC, Ford I, Fornage M, Franco OH, Franke A, Franks PW, Friedrich N, Frikke-Schmidt R, Galesloot TE, Gan W, Gandin I, Gasparini P, Gibson J, Giedraitis V, Gjesing AP, Gordon-Larsen P, Gorski M, Grabe HJ, Grant SFA, Grarup N, Griffiths HL, Grove ML, Gudnason V, Gustafsson S, Haessler J, Hakonarson H, Hammerschlag AR, Hansen T, Harris KM, Harris TB, Hattersley AT, Have CT, Hayward C, He L, Heard-Costa NL, Heath AC, Heid IM, Helgeland Ø, Hernesniemi J, Hewitt AW, Holmen OL, Hovingh GK, Howson JMM, Hu Y, Huang PL, Huffman JE, Ikram MA, Ingelsson E, Jackson AU, Jansson JH, Jarvik GP, Jensen GB, Jia Y, Johansson S, Jørgensen ME, Jørgensen T, Jukema JW, Kahali B, Kahn RS, Kähönen M, Kamstrup PR, Kanoni S, Kaprio J, Karaleftheri M, Kardia SLR, Karpe F, Kathiresan S, Kee F, Kiemeney LA, Kim E, Kitajima H, Komulainen P, Kooner JS, Kooperberg C, Korhonen T, Kovacs P, Kuivaniemi H, Kutalik Z, Kuulasmaa K, Kuusisto J, Laakso M, Lakka TA, Lamparter D, Lange EM, Lange LA, Langenberg C, Larson EB, Lee NR, Lehtimäki T, Lewis CE, Li H, Li J, Li-Gao R, Lin H, Lin KH, Lin LA, Lin X, Lind L, Lindström J, Linneberg A, Liu CT, Liu DJ, Liu Y, Lo KS, Lophatananon A, Lotery AJ, Loukola A, Luan J, Lubitz SA, Lyytikäinen LP, Männistö S, Marenne G, Mazul AL, McCarthy MI, McKean-Cowdin R, Medland SE, Meidner K, Milani L, Mistry V, Mitchell P, Mohlke KL, Moilanen L, Moitry M, Montgomery GW, Mook-Kanamori DO, Moore C, Mori TA, Morris AD, Morris AP, Müller-Nurasyid M, Munroe PB, Nalls MA, Narisu N, Nelson CP, Neville M, Nielsen SF, Nikus K, Njølstad PR, Nordestgaard BG, Nyholt DR, O'Connel JR, O'Donoghue ML, Olde Loohuis LM, Ophoff RA, Owen KR, Packard CJ, Padmanabhan S, Palmer CNA, Palmer ND, Pasterkamp G, Patel AP, Pattie A, Pedersen O, Peissig PL, Peloso GM, Pennell CE, Perola M, Perry JA, Perry JRB, Pers TH, Person TN, Peters A, Petersen ERB, Peyser PA, Pirie A, Polasek O, Polderman TJ, Puolijoki H, Raitakari OT, Rasheed A, Rauramaa R, Reilly DF, Renström F, Rheinberger M, Ridker PM, Rioux JD, Rivas MA, Roberts DJ, Robertson NR, Robino A, Rolandsson O, Rudan I, Ruth KS, Saleheen D, Salomaa V, Samani NJ, Sapkota Y, Sattar N, Schoen RE, Schreiner PJ, Schulze MB, Scott RA, Segura-Lepe MP, Shah SH, Sheu WH, Sim X, Slater AJ, Small KS, Smith AV, Southam L, Spector TD, Speliates EK, Starr JM, Stefansson K, Steinhorsdottir V, Stirrups KE, Strauch K, Stringham HM, Stumvoll M, Sun L, Surendran P, Swift AJ, Tada H, Tansey KE, Tardif JC, Taylor KD, Teumer A, Thompson DJ, Thorleifsson G, Thorsteinsdottir U, Thuesen BH, Tönjes A, Tromp G, Trompet S, Tsafantakis E, Tuomilehto J, Tybjaerg-Hansen A, Tyrer JP, Uher R, Uitterlinden AG, Uusitupa M, Laan SW, Duijn CM, Leeuwen N, van Setten J, Vanhala M, Varbo A, Varga TV, Varma R, Velez Edwards DR, Vermeulen SH, Veronesi G, Vestergaard H, Vitart V, Vogt TF, Völker U, Vuckovic D, Wagenknecht LE, Walker M, Wallentin L, Wang F, Wang CA, Wang S, Wang Y, Ware EB, Wareham NJ, Warren HR, Waterworth DM, Wessel J, White HD, Willer CJ, Wilson JG, Witte DR, Wood AR, Wu Y, Yaghootkar H, Yao J, Yao P, Yerges-Armstrong LM, Young R, Zeggini E, Zhan X, Zhang W, Zhao JH, Zhao W, Zhou W, Zondervan KT; CHD Exome+ Consortium; EPIC-CVD Consortium; ExomeBP Consortium; Global Lipids Genetic Consortium; GoT2D Genes Consortium; EPIC InterAct Consortium; INTERVAL Study; ReproGen Consortium; T2D-Genes Consortium; MAGIC Investigators; Understanding Society Scientific Group, Rotter JI, Pospisilik JA, Rivadeneira F, Borecki IB, Deloukas P, Frayling TM, Lettre G, North KE, Lindgren CM, Hirschhorn JN, Loos RJF. Publisher Correction: Protein-altering variants associated with body mass index implicate pathways that control energy intake and expenditure in obesity. *Nat Genet* 2018;50:766-767. doi: 10.1038/s41588-018-0082-3. doi: 10.1038/s41588-017-0011-x.

265. Säisänen L, Julkunen P, Lakka T, Lindi V, Könönen M, Määttä S. Development of corticospinal motor excitability and cortical silent period from mid-childhood to adulthood – a navigated TMS study. *Neurophysiol Clin* 2018;48:65-75. doi: 10.1016/j.neucli.2017.11.004.

266. Medina-Gomez C, Kemp JP, Trajanoska K, Luan J, Chesi A, Ahluwalia TS, Mook-Kanamori DO, Ham A, Hartwig FP, Evans DS, Joro R, Nedeljkovic I, Zheng HF, Zhu K, Atalay M, Liu CT, Nethander M, Broer L, Porleifsson G, Mullin BH, Handelman SK, Nalls MA, Jessen LE, Heppe DHM, Richards JB, Wang C, Chawes B, Schraut KE, Amin N, Wareham N, Karasik D, Van der Velde N, Ikram MA, Zemel BS, Zhou Y, Carlsson CJ, Liu Y, McGuigan FE, Boer CG, Bønnelykke K, Ralston SH, Robbins JA, Walsh JP, Zillikens MC, Langenberg C, Li-Gao R, Williams FMK, Harris TB, Akesson K, Jackson RD, Sigurdsson G, den Heijer M, van der Eerden BCJ, van de Peppel J, Spector TD, Pennell C, Horta BL, Felix JF, Zhao JH, Wilson SG, de Mutsert R, Bisgaard H, Styrkársdóttir U, Jaddoe VW, Orwoll E, Lakka TA, Scott R, Grant SFA, Lorentzon M, van Duijn CM, Wilson JF, Stefansson K, Psaty BM, Kiel DP, Ohlsson C, Ntzani E, van Wijnen AJ, Forgetta V, Ghanbari M, Logan JG, Williams GR, Bassett JHD, Croucher PI, Evangelou E, Uitterlinden AG, Ackert-Bicknell CL, Tobias JH, Evans DM, Rivadeneira F. Life-course genome-wide association study meta-analysis of total body BMD and assessment of age-specific effects. **Am J Hum Genet** 2018;102:88-102. doi: 10.1016/j.ajhg.2017.12.005.
267. Soininen S, Sidoroff V, Lindi V, Mahonen A, Kröger L, Kröger H, Jääskeläinen J, Atalay M, Laaksonen DE, Laitinen T, Lakka TA. Body fat mass, lean body mass and associated biomarkers as determinants of bone mineral density in children 6–8 years of age - The Physical Activity and Nutrition in Children (PANIC) study. **Bone** 2018;108:106-114. doi: 10.1016/j.bone.2018.01.003.
268. Eloranta AM, Jääskeläinen J, Venäläinen T, Jalkanen H, Kiiskinen S, Mäntyselkä A, Schwab U, Lindi V, Lakka TA. Birth weight is associated with dietary factors at the age of 6–8 years – the PANIC Study. **Public Health Nutr** 2018;21:1278-1285. doi: 10.1017/S1368980017004013.
269. Häkkinen MR, Heinosaalo T, Saarinen N, Linnanen T, Voutilainen R, Lakka T, Jääskeläinen J, Poutanen M, Auriola S. Analysis by LC–MS/MS of endogenous steroids from human serum, plasma, endometrium and endometriotic tissue. **J Pharm Biomed Anal** 2018;152:165-172. doi: 10.1016/j.jpba.2018.01.034.
270. Hagnäs MJ, Lakka TA, Mäkipallio TH, Kurl S, Savonen K, Rauramaa R, Laukkonen JA. High leisure-time physical activity is associated with reduced risk of sudden cardiac death among men with low cardiorespiratory fitness. **Can J Cardiol** 2018; 34:288-294. doi: 10.1016/j.cjca.2017.12.003.
271. Taylor DL, Knowles DA, Scott LJ, Ramirez AH, Casale FP, Wolford BN, Guan L, Varshney A, Albanus RD, Parker SCJ, Narisu N, Chines PS, Erdos MR, Welch RP, Kinnunen L, Saramies J, Sundvall J, Lakka TA, Laakso M, Tuomilehto J, Koistinen HA, Stegle O, Boehnke M, Birney E, Collins FS. Interactions between genetic variation and cellular environment in skeletal muscle gene expression. **PLoS One** 2018;13:e0195788. doi: 10.1371/journal.pone.0195788. eCollection 2018.
272. van Zuydam NR, Ahlvist E, Sandholm N, Deshmukh H, Rayner NW, Abdalla M, Ladenvall C, Ziemeck D, Fauman E, Robertson NR, McKeigue PM, Valo E, Forsblom C, Harjutsalo V; Finnish Diabetic Nephropathy Study (FinnDiane) (Lakka TA as a collaborator), Perna A, Rurali E, Marcovecchio ML, Igo RP Jr, Salem RM, Perico N, Lajer M, Käräjämäki A, Imamura M, Kubo M, Takahashi A, Sim X, Liu J, van Dam RM, Jiang G, Tam CHT, Luk AOY, Lee HM, Lim CKP, Szeto CC, So WY, Chan JCN; Hong Kong Diabetes Registry Theme-based Research Scheme Project Group, Ang SF, Dorajoo R, Wang L, Clara TSH, McKnight AJ, Duffy S; Warren 3 and Genetics of Kidneys in Diabetes (GoKinD) Study

- Group, Pezzolesi MG; GENIE (GEnetics of Nephropathy an International Effort) Consortium, Marre M, Gyorgy B, Hadjadj S, Hiraki LT; Diabetes Control and Complications Trial (DCCT)/Epidemiology of Diabetes Interventions and Complications (EDIC) Research Group, Ahluwalia TS, Almgren P, Schulz CA, Orho-Melander M, Linneberg A, Christensen C, Witte DR, Grarup N, Bränslund I, Melander O, Paterson AD, Tregouet D, Maxwell AP, Lim SC, Ma RCW, Tai ES, Maeda S, Lyssenko V, Tuomi T, Krolewski AS, Rich SS, Hirschhorn JN, Florez JC, Dunger D, Pedersen O, Hansen T, Rossing P, Remuzzi G; SURrogate markers for Micro- and Macrovascular hard endpoints for Innovative diabetes Tools (SUMMIT) Consortium, Brosnan MJ, Palmer CNA, Groop PH, Colhoun HM, Groop LC, McCarthy MI. A genome-wide association study of diabetic kidney disease in subjects with type 2 diabetes. **Diabetes** **2018**;67:1414-1427. doi: 10.2337/db17-0914.
273. Haapala EA, Lintu N, Eloranta AM, Venäläinen T, Poikkeus AM, Ahonen T, Lindi V, Lakka TA. Mediating effects of motor performance, cardiorespiratory fitness, physical activity, and sedentary behaviour on the associations of adiposity and other cardiometabolic risk factors with academic achievement in children. **J Sports Sci** **2018**;36:2296-2303. doi: 10.1080/02640414.2018.1449562
274. Soininen S, Eloranta AM, Viitasalo A, Dion G, Erkkilä A, Sidoroff V, Lindi V, Mahonen A, Lakka TA. Serum 25-hydroxyvitamin D, plasma lipids, and associated gene variants in prepubertal children. **J Clin Endocrinol Metab** **2018**;103:2670-2679. doi: 10.1210/jc.2018-00335.
275. Ikävalko T, Lehto S, Lintu N, Väistö J, Eloranta AM, Haapala EA, Vierola A, Myllykangas R, Tuomilehto H, Brage S, Pahkala R, Närhi M, Lakka TA. Health-related correlates of psychological well-being among girls and boys 6–8 years of age: The Physical Activity and Nutrition in Children study. **J Paediatr Child Health** **2018**;54:506-509. doi: 10.1111/jpc.13891.
276. Mäntyselkä A, Lindi V, Viitasalo A, Eloranta AM, Ågren J, Väisänen S, Voutilainen R, Laitinen T, Lakka TA, Jääskeläinen J. Associations of dehydroepiandrosterone sulfate with cardiometabolic risk factors in prepubertal children. **J Clin Endocrinol Metab** **2018**;103: 2592-2600. doi: 10.1210/jc.2018-00184.
277. Feitosa MF, Kraja AT, Chasman DI, Sung YJ, Winkler TW, Ntalla I, Guo X, Franceschini N, Cheng CY, Sim X, Vojinovic D, Marten J, Musani SK, Li C, Bentley AR, Brown MR, Schwander K, Richard MA, Noordam R, Aschard H, Bartz TM, Bielak LF, Dorajoo R, Fisher V, Hartwig FP, Horimoto ARVR, Lohman KK, Manning AK, Rankinen T, Smith AV, Tajuddin SM, Wojczynski MK, Alver M, Boissel M, Cai Q, Campbell A, Chai JF, Chen X, Divers J, Gao C, Goel A, Hagemeijer Y, Harris SE, He M, Hsu FC, Jackson AU, Kähönen M, Kasturiratne A, Komulainen P, Kühnel B, Laguzzi F, Luan J, Matoba N, Nolte IM, Padmanabhan S, Riaz M, Rueedi R, Robino A, Said MA, Scott RA, Sofer T, Stančáková A, Takeuchi F, Tayo BO, van der Most PJ, Varga TV, Vitart V, Wang Y, Ware EB, Warren HR, Weiss S, Wen W, Yanek LR, Zhang W, Zhao JH, Afaq S, Amin N, Amini M, Arking DE, Aung T, Boerwinkle E, Borecki I, Broeckel U, Brown M, Brumat M, Burke GL, Canouil M, Chakravarti A, Charumathi S, Ida Chen YD, Connell JM, Correa A, de Las Fuentes L, de Mutsert R, de Silva HJ, Deng X, Ding J, Duan Q, Eaton CB, Ehret G, Eppinga RN, Evangelou E, Faul JD, Felix SB, Forouhi NG, Forrester T, Franco OH, Friedlander Y, Gandin I, Gao H, Ghanbari M, Gigante B, Gu CC, Gu D, Hagenaars SP, Hallmans G, Harris TB, He J, Heikkinen S, Heng CK, Hirata M, Howard BV, Ikram MA; InterAct Consortium, John U, Katsuya T, Khor CC, Kilpeläinen TO, Koh WP, Krieger JE, Kritchevsky SB, Kubo M, Kuusisto J, Lakka TA, Langefeld CD, Langenberg C, Launer LJ, Lehne B, Lewis CE, Li Y,

- Lin S, Liu J, Liu J, Loh M, Louie T, Mägi R, McKenzie CA, Meitinger T, Metspalu A, Milaneschi Y, Milani L, Mohlke KL, Momozawa Y, Nalls MA, Nelson CP, Sotoodehnia N, Norris JM, O'Connell JR, Palmer ND, Perls T, Pedersen NL, Peters A, Peyser PA, Poulter N, Raffel LJ, Raitakari OT, Roll K, Rose LM, Rosendaal FR, Rotter JI, Schmidt CO, Schreiner PJ, Schupf N, Scott WR, Sever PS, Shi Y, Sidney S, Sims M, Sitlani CM, Smith JA, Snieder H, Starr JM, Strauch K, Stringham HM, Tan NYQ, Tang H, Taylor KD, Teo YY, Tham YC, Turner ST, Uitterlinden AG, Vollenweider P, Waldenberger M, Wang L, Wang YX, Wei WB, Williams C, Yao J, Yu C, Yuan JM, Zhao W, Zonderman AB, Becker DM, Boehnke M, Bowden DW, Chambers JC, Deary IJ, Esko T, Farrall M, Franks PW, Freedman BI, Froguel P, Gasparini P, Gieger C, Jonas JB, Kamatani Y, Kato N, Kooner JS, Kutalik Z, Laakso M, Laurie CC, Leander K, Lehtimäki T, Study LC, Magnusson PKE, Oldehinkel AJ, Penninx BWJH, Polasek O, Porteous DJ, Rauramaa R, Samani NJ, Scott J, Shu XO, van der Harst P, Wagenknecht LE, Wareham NJ, Watkins H, Weir DR, Wickremasinghe AR, Wu T, Zheng W, Bouchard C, Christensen K, Evans MK, Gudnason V, Horta BL, Kardia SLR, Liu Y, Pereira AC, Psaty BM, Ridker PM, van Dam RM, Gauderman WJ, Zhu X, Mook-Kanamori DO, Fornage M, Rotimi CN, Cupples LA, Kelly TN, Fox ER, Hayward C, van Duijn CM, Tai ES, Wong TY, Kooperberg C, Palmas W, Rice K, Morrison AC, Elliott P, Caulfield MJ, Munroe PB, Rao DC, Province MA, Levy D. Novel genetic associations for blood pressure identified via gene-alcohol interaction in up to 570K individuals across multiple ancestries. **PLoS One** 2018;13(6):e0198166. doi: 10.1371/journal.pone.0198166. eCollection 2018.
278. Haapala EA, Paananen J, Hiltunen M, Lakka TA. Associations of genetic susceptibility to Alzheimer's disease with adiposity and cardiometabolic risk factors among children in a 2-year follow-up study. **J Alzheimers Dis** 2018;64:587-595. doi: 10.3233/JAD-180216.
279. Haworth S, Shungin D, van der Tas JT, Vucic S, Medina-Gomez C, Yakimov V, Feenstra B, Shaffer JR, Lee MK, Standl M, Thiering E, Wang C, Bønnelykke K, Waage J, Jessen LE, Nørrisgaard PE, Joro R, Seppälä I, Raitakari O, Dudding T, Grgic O, Ongkosuwito E, Vierola A, Eloranta AM, West NX, Thomas SJ, McNeil DW, Levy SM, Slayton R, Nohr EA, Lehtimäki T, Lakka T, Bisgaard H, Pennell C, Kühnisch J, Marazita ML, Melbye M, Geller F, Rivadeneira F, Wolvius EB, Franks PW, Johansson I, Timpson NJ. Consortium-based genome-wide meta-analysis for childhood dental caries traits. **Hum Mol Genet** 2018;27:3113-3127. doi: 10.1093/hmg/ddy237.
280. Agbaje AO, Haapala EA, Lintu N, Viitasalo A, Barker AR, Takken T, Tompuri T, Lindi V, Lakka TA. Peak oxygen uptake cut-points to identify children at increased cardiometabolic risk - The PANIC Study. **Scand J Med Sci Sports** 2019;29:16-24. doi: 10.1111/sms.13307
281. Väistö J, Haapala EA, Viitasalo A, Schnurr TM, Kilpeläinen TO, Karjalainen P, Westgate K, Lakka H-M, Laaksonen DE, Ekelund U, Brage S, Lakka TA. Longitudinal associations of physical activity and sedentary time with cardiometabolic risk factors in children. **Scand J Med Sci Sports** 2019;29:113-123. doi: 10.1111/sms.13315
282. Haapala EA, Lintu N, Väistö J, Tompuri T, Soininen S, Viitasalo A, Eloranta AM, Venäläinen T, Sääkslahti A, Laitinen T, Lakka TA. Longitudinal associations of fitness, motor competence, and adiposity with cognition. **Med Sci Sports Exerc** 2019;51:465-471. doi: 10.1249/MSS.0000000000001826
283. Agbaje AO, Haapala EA, Lintu N, Viitasalo A, Väistö J, Khan S, Veijalainen A, Tompuri T, Laitinen T, Lakka TA. Associations of cardiorespiratory fitness and adiposity with arterial stiffness and arterial dilatation capacity in response to a bout of exercise in children. **Pediatr Exerc Sci** 2019;9:1-10. doi: 10.1123/pes.2018-0145.

284. Häkkinen MR, Murtola T, Voutilainen R, Poutanen M, Linnanen T, Koskivuori J, Lakka T, Jääskeläinen J, Auriola S. Simultaneous analysis by LC-MS/MS of 22 ketosteroids with hydroxylamine derivatization and underivatized estradiol from human plasma, serum and prostate tissue. **J Pharmaceut Biomed Anal** 2019;164:642-652. doi: 10.1016/j.jpba.2018.
285. Määttä S, Säisänen L, Kallioniemi E, Lakka TA, Lintu N, Haapala EA, Koskenkorva P, Niskanen E, Ferreri F, Könönen M. Maturation changes the excitability and effective connectivity of the frontal lobe: A developmental TMS-EEG study. **Hum Brain Mapp** 2019; 40:2320-2335. doi: 10.1002/hbm.24525.
286. Kilpeläinen TO, Bentley AR, Noordam R, Sung YJ, Schwander K, Winkler TW, Jakupović H, Chasman DI, Manning A, Ntalla I, Aschard H, Brown MR, de Las Fuentes L, Franceschini N, Guo X, Vojinovic D, Aslibekyan S, Feitosa MF, Kho M, Musani SK, Richard M, Wang H, Wang Z, Bartz TM, Bielak LF, Campbell A, Dorajoo R, Fisher V, Hartwig FP, Horimoto ARVR, Li C, Lohman KK, Marten J, Si Maturation changes the excitability m X, Smith AV, Tajuddin SM, Alver M, Amini M, Boissel M, Chai JF, Chen X, Divers J, Evangelou E, Gao C, Graff M, Harris SE, He M, Hsu FC, Jackson AU, Zhao JH, Kraja AT, Kühnel B, Laguzzi F, Lyytikäinen LP, Nolte IM, Rauramaa R, Riaz M, Robino A, Rueedi R, Stringham HM, Takeuchi F, van der Most PJ, Varga TV, Verweij N, Ware EB, Wen W, Li X, Yanek LR, Amin N, Arnett DK, Boerwinkle E, Brumat M, Cade B, Canouil M, Chen YI, Concas MP, Connell J, de Mutsert R, de Silva HJ, de Vries PS, Demirkan A, Ding J, Eaton CB, Faul JD, Friedlander Y, Gabriel KP, Ghanbari M, Giulianini F, Gu CC, Gu D, Harris TB, He J, Heikkinen S, Heng CK, Hunt SC, Ikram MA, Jonas JB, Koh WP, Komulainen P, Krieger JE, Kritchevsky SB, Katalik Z, Kuusisto J, Langefeld CD, Langenberg C, Launer LJ, Leander K, Lemaitre RN, Lewis CE, Liang J; Lifelines Cohort Study, Liu J, Mägi R, Manichaikul A, Meitinger T, Metspalu A, Milaneschi Y, Mohlke KL, Mosley TH Jr, Murray AD, Nalls MA, Nang EK, Nelson CP, Nona S, Norris JM, Nwuba CV, O'Connell J, Palmer ND, Papanicolau GJ, Pazoki R, Pedersen NL, Peters A, Peyser PA, Polasek O, Porteous DJ, Poveda A, Raitakari OT, Rich SS, Risch N, Robinson JG, Rose LM, Rudan I, Schreiner PJ, Scott RA, Sidney SS, Sims M, Smith JA, Snieder H, Sofer T, Starr JM, Sternfeld B, Strauch K, Tang H, Taylor KD, Tsai MY, Tuomilehto J, Uitterlinden AG, van der Ende MY, van Heemst D, Voortman T, Waldenberger M, Wennberg P, Wilson G, Xiang YB, Yao J, Yu C, Yuan JM, Zhao W, Zonderman AB, Becker DM, Boehnke M, Bowden DW, de Faire U, Deary IJ, Elliott P, Esko T, Freedman BI, Froguel P, Gasparini P, Gieger C, Kato N, Laakso M, Lakka TA, Lehtimäki T, Magnusson PKE, Oldehinkel AJ, Penninx BWJH, Samani NJ, Shu XO, van der Harst P, Van Vliet-Ostaptchouk JV, Vollenweider P, Wagenknecht LE, Wang YX, Wareham NJ, Weir DR, Wu T, Zheng W, Zhu X, Evans MK, Franks PW, Gudnason V, Hayward C, Horta BL, Kelly TN, Liu Y, North KE, Pereira AC, Ridker PM, Tai ES, van Dam RM, Fox ER, Kardia SLR, Liu CT, Mook-Kanamori DO, Province MA, Redline S, van Duijn CM, Rotter JI, Kooperberg CB, Gauderman WJ, Psaty BM, Rice K, Munroe PB, Fornage M, Cupples LA, Rotimi CN, Morrison AC, Rao DC, Loos RJF. Multi-ancestry study of blood lipid levels identifies four loci interacting with physical activity. **Nat Commun** 2019;10:376. doi: 10.1038/s41467-018-08008-w.
287. de Vries PS, Brown MR, Bentley AR, Sung YJ, Winkler TW, Ntalla I, Schwander K, Kraja AT, Guo X, Franceschini N, Cheng CY, Sim X, Vojinovic D, Huffman JE, Musani SK, Li C, Feitosa MF, Richard MA, Noordam R, Aschard H, Bartz TM, Bielak LF, Deng X, Dorajoo R, Lohman KK, Manning AK, Rankinen T, Smith AV, Tajuddin SM, Evangelou E, Graff M, Alver M, Boissel M, Chai JF, Chen X, Divers J, Gandin I, Gao C, Goel A, Hagemeijer Y, Harris SE, Hartwig FP, He M, Horimoto ARVR, Hsu FC, Jackson AU, Kasturiratne A, Komulainen P, Kühnel B, Laguzzi F, Lee JH, Luan J, Lyytikäinen LP, Matoba N, Nolte IM,

- Pietzner M, Riaz M, Said MA, Scott RA, Sofer T, Stancáková A, Takeuchi F, Tayo BO, van der Most PJ, Varga TV, Wang Y, Ware EB, Wen W, Yanek LR, Zhang W, Zhao JH, Afaq S, Amin N, Amini M, Arking DE, Aung T, Ballantyne C, Boerwinkle E, Broeckel U, Campbell A, Canouil M, Charumathi S, Chen YI, Connell JM, de Faire U, de Las Fuentes L, de Mutsert R, de Silva HJ, Ding J, Dominiczak AF, Duan Q, Eaton CB, Eppinga RN, Faul JD, Fisher V, Forrester T, Franco OH, Friedlander Y, Ghanbari M, Giulianini F, Grabe HJ, Grove ML, Gu CC, Harris TB, Heikkinen S, Heng CK, Hirata M, Hixson JE, Howard BV, Ikram MA; InterAct Consortium, Jacobs DR Jr, Johnson C, Jonas JB, Kammerer CM, Katsuya T, Khor CC, Kilpeläinen TO, Koh WP, Koistinen HA, Kolcic I, Kooperberg C, Krieger JE, Kritchevsky SB, Kubo M, Kuusisto J, Lakka TA, Langefeld CD, Langenberg C, Launer LJ, Lehne B, Lemaitre RN, Li Y, Liang J, Liu J, Liu K, Loh M, Louie T, Mägi R, Manichaikul AW, McKenzie CA, Meitinger T, Metspalu A, Milaneschi Y, Milani L, Mohlke KL, Mosley TH Jr, Mukamal KJ, Nalls MA, Nauck M, Nelson CP, Sotoodehnia N, O'Connell JR, Palmer ND, Pazoki R, Pedersen NL, Peters A, Peyser PA, Polasek O, Poulter N, Raffel LJ, Raitakari OT, Reiner AP, Rice TK, Rich SS, Robino A, Robinson JG, Rose LM, Rudan I, Schmidt CO, Schreiner PJ, Scott WR, Sever P, Shi Y, Sidney S, Sims M, Smith BH, Smith JA, Snieder H, Starr JM, Strauch K, Tan N, Taylor KD, Teo YY, Tham YC, Uitterlinden AG, van Heemst D, Vuckovic D, Waldenberger M, Wang L, Wang Y, Wang Z, Wei WB, Williams C, Wilson G Sr, Wojczynski MK, Yao J, Yu B, Yu C, Yuan JM, Zhao W, Zonderman AB, Becker DM, Boehnke M, Bowden DW, Chambers JC, Deary IJ, Esko T, Farrall M, Franks PW, Freedman BI, Froguel P, Gasparini P, Gieger C, Horta BL, Kamatani Y, Kato N, Kooner JS, Laakso M, Leander K, Lehtimäki T; Lifelines Cohort, Groningen, The Netherlands (Lifelines Cohort Study), Magnusson PKE, Penninx B, Pereira AC, Rauramaa R, Samani NJ, Scott J, Shu XO, van der Harst P, Wagenknecht LE, Wang YX, Wareham NJ, Watkins H, Weir DR, Wickremasinghe AR, Zheng W, Elliott P, North KE, Bouchard C, Evans MK, Gudnason V, Liu CT, Liu Y, Psaty BM, Ridker PM, van Dam RM, Kardia SLR, Zhu X, Rotimi CN, Mook-Kanamori DO, Fornage M, Kelly TN, Fox ER, Hayward C, van Duijn CM, Tai ES, Wong TY, Liu J, Rotter JI, Gauderman WJ, Province MA, Munroe PB, Rice K, Chasman DI, Cupples LA, Rao DC, Morrison AC. Multi-ancestry genome-wide association study incorporating gene-alcohol interactions identifies new lipid loci. **Am J Epidemiol** 2019;188:1033-1054. doi: 10.1093/aje/kwz005.
288. Justice AE, Karaderi T, Highland HM, Young KL, Graff M, Lu Y, Turcot V, Auer PL, Fine RS, Guo X, Schurmann C, Lempradl A, Marouli E, Mahajan A, Winkler TW, Locke AE, Medina-Gomez C, Esko T, Vedantam S, Giri A, Lo KS, Alfred T, Mudgal P, Ng MCY, Heard-Costa NL, Feitosa MF, Manning AK, Willems SM, Sivapalaratnam S, Abecasis G, Alam DS, Allison M, Amouyel P, Arzumanyan Z, Balkau B, Bastarache L, Bergmann S, Bielak LF, Blüher M, Boehnke M, Boeing H, Boerwinkle E, Böger CA, Bork-Jensen J, Bottinger EP, Bowden DW, Brandslund I, Broer L, Burt AA, Butterworth AS, Caulfield MJ, Cesana G, Chambers JC, Chasman DI, Chen YI, Chowdhury R, Christensen C, Chu AY, Collins FS, Cook JP, Cox AJ, Crosslin DS, Danesh J, de Bakker PIW, Denus S, Mutsert R, Dedoussis G, Demerath EW, Dennis JG, Denny JC, Angelantonio ED, Dörr M, Drenos F, Dubé MP, Dunning AM, Easton DF, Elliott P, Evangelou E, Farmaki AE, Feng S, Ferrannini E, Ferrieres J, Florez JC, Fornage M, Fox CS, Franks PW, Friedrich N, Gan W, Gandin I, Gasparini P, Giedraitis V, Giroto G, Gorski M, Grallert H, Grarup N, Grove ML, Gustafsson S, Haessler J, Hansen T, Hattersley AT, Hayward C, Heid IM, Holmen OL, Hovingh GK, Howson JMM, Hu Y, Hung YJ, Hveem K, Ikram MA, Ingelsson E, Jackson AU, Jarvik GP, Jia Y, Jørgensen T, Jousilahti P, Justesen JM, Kahali B, Karaleftheri M, Kardia SLR, Karpe F, Kee F, Kitajima H, Komulainen P, Kooner JS, Kovacs P, Krämer BK, Kuulasmaa K, Kuusisto J, Laakso M, Lakka TA, Lamparter D, Lange LA, Langenberg C, Larson EB, Lee NR, Lee WJ, Lehtimäki T, Lewis

- CE, Li H, Li J, Li-Gao R, Lin LA, Lin X, Lind L, Lindström J, Linneberg A, Liu CT, Liu DJ, Luan J, Lyytikäinen LP, MacGregor S, Mägi R, Männistö S, Marenne G, Marten J, Masca NGD, McCarthy MI, Meidtner K, Mihailov E, Moilanen L, Moitry M, Mook-Kanamori DO, Morgan A, Morris AP, Müller-Nurasyid M, Munroe PB, Narisu N, Nelson CP, Neville M, Ntalla I, O'Connell JR, Owen KR, Pedersen O, Peloso GM, Pennell CE, Perola M, Perry JA, Perry JRB, Pers TH, Ewing A, Polasek O, Raitakari OT, Rasheed A, Raulerson CK, Rauramaa R, Reilly DF, Reiner AP, Ridker PM, Rivas MA, Robertson NR, Robino A, Rudan I, Ruth KS, Saleheen D, Salomaa V, Samani NJ, Schreiner PJ, Schulze MB, Scott RA, Segura-Lepe M, Sim X, Slater AJ, Small KS, Smith BH, Smith JA, Southam L, Spector TD, Speliotes EK, Stefansson K, Steinhorsdottir V, Stirrups KE, Strauch K, Stringham HM, Stumvoll M, Sun L, Surendran P, Swart KMA, Tardif JC, Taylor KD, Teumer A, Thompson DJ, Thorleifsson G, Thorsteinsdottir U, Thuesen BH, Tönjes A, Torres M, Tsafantakis E, Tuomilehto J, Uitterlinden AG, Uusitupa M, van Duijn CM, Vanhala M, Varma R, Vermeulen SH, Vestergaard H, Vitart V, Vogt TF, Vuckovic D, Wagenknecht LE, Walker M, Wallentin L, Wang F, Wang CA, Wang S, Wareham NJ, Warren HR, Waterworth DM, Wessel J, White HD, Willer CJ, Wilson JG, Wood AR, Wu Y, Yaghootkar H, Yao J, Yerges-Armstrong LM, Young R, Zeggini E, Zhan X, Zhang W, Zhao JH, Zhao W, Zheng H, Zhou W, Zillikens MC; CHD Exome+ Consortium; Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) Consortium; EPIC-CVD Consortium; ExomeBP Consortium; Global Lipids Genetic Consortium; GoT2D Genes Consortium; InterAct; ReproGen Consortium; T2D-Genes Consortium; MAGIC Investigators, Rivadeneira F, Borecki IB, Pospisilik JA, Deloukas P, Frayling TM, Lettre G, Mohlke KL, Rotter JI, Kutalik Z, Hirschhorn JN, Cupples LA, Loos RJF, North KE, Lindgren CM. Protein-coding variants implicate novel genes related to lipid homeostasis contributing to body-fat distribution. **Nat Genet** 2019;51:452-469. doi: 10.1038/s41588-018-0334-2.
289. Pihlajamäki J, Männikkö R, Tilles-Tirkkonen T, Karhunen L, Kolehmainen M, Schwab U, Lintu N, Paananen J, Järvenpää R, Harjumaa M, Martikainen J, Kohl J, Poutanen K, Ermes M, Absetz P, Lindström J, Lakka TA; StopDia study group. Digitally supported program for type 2 diabetes risk identification and risk reduction in real-world setting: protocol for the StopDia model and randomized controlled trial. **BMC Public Health** 2019;19:255. <https://doi.org/10.1186/s12889-019-6574-y>.
290. Bentley AR, Sung YJ, Brown MR, Winkler TW, Kraja AT, Ntalla I, Schwander K, Chasman DI, Lim E, Deng X, Guo X, Liu J, Lu Y, Cheng CY, Sim X, Vojinovic D, Huffman JE, Musani SK, Li C, Feitosa MF, Richard MA, Noordam R, Baker J, Chen G, Aschard H, Bartz TM, Ding J, Dorajoo R, Manning AK, Rankinen T, Smith AV, Tajuddin SM, Zhao W, Graff M, Alver M, Boissel M, Chai JF, Chen X, Divers J, Evangelou E, Gao C, Goel A, Hagemeijer Y, Harris SE, Hartwig FP, He M, Horimoto ARVR, Hsu FC, Hung YJ, Jackson AU, Kasturiratne A, Komulainen P, Kühnel B, Leander K, Lin KH, Luan J, Lyytikäinen LP, Matoba N, Nolte IM, Pietzner M, Prins B, Riaz M, Robino A, Said MA, Schupf N, Scott RA, Sofer T, Stancáková A, Takeuchi F, Tayo BO, van der Most PJ, Varga TV, Wang TD, Wang Y, Ware EB, Wen W, Xiang YB, Yanek LR, Zhang W, Zhao JH, Adeyemo A, Afaf S, Amin N, Amini M, Arking DE, Arzumanyan Z, Aung T, Ballantyne C, Barr RG, Bielak LF, Boerwinkle E, Bottinger EP, Broeckel U, Brown M, Cade BE, Campbell A, Canouil M, Charumathi S, Chen YI, Christensen K; COGENT-Kidney Consortium, Concas MP, Connell JM, de Las Fuentes L, de Silva HJ, de Vries PS, Doumatey A, Duan Q, Eaton CB, Eppinga RN, Faul JD, Floyd JS, Forouhi NG, Forrester T, Friedlander Y, Gandin I, Gao H, Ghanbari M, Gharib SA, Gigante B, Julianini F, Grabe HJ, Gu CC, Harris TB, Heikkinen S, Heng CK, Hirata M, Hixson JE, Ikram MA; EPIC-InterAct Consortium, Jia Y, Joehanes R, Johnson C, Jonas JB, Justice AE,

- Katsuya T, Khor CC, Kilpeläinen TO, Koh WP, Kolcic I, Kooperberg C, Krieger JE, Kritchovsky SB, Kubo M, Kuusisto J, Lakka TA, Langefeld CD, Langenberg C, Launer LJ, Lehne B, Lewis CE, Li Y, Liang J, Lin S, Liu CT, Liu J, Liu K, Loh M, Lohman KK, Louie T, Luzzi A, Mägi R, Mahajan A, Manichaikul AW, McKenzie CA, Meitinger T, Metspalu A, Milaneschi Y, Milani L, Mohlke KL, Momozawa Y, Morris AP, Murray AD, Nalls MA, Nauck M, Nelson CP, North KE, O'Connell JR, Palmer ND, Papanicolau GJ, Pedersen NL, Peters A, Peyser PA, Polasek O, Poulter N, Raitakari OT, Reiner AP, Renström F, Rice TK, Rich SS, Robinson JG, Rose LM, Rosendaal FR, Rudan I, Schmidt CO, Schreiner PJ, Scott WR, Sever P, Shi Y, Sidney S, Sims M, Smith JA, Snieder H, Starr JM, Strauch K, Stringham HM, Tan NYQ, Tang H, Taylor KD, Teo YY, Tham YC, Tiemeier H, Turner ST, Uitterlinden AG; Understanding Society Scientific Group, van Heemst D, Waldenberger M, Wang H, Wang L, Wang L, Wei WB, Williams CA, Wilson G Sr, Wojczynski MK, Yao J, Young K, Yu C, Yuan JM, Zhou J, Zonderman AB, Becker DM, Boehnke M, Bowden DW, Chambers JC, Cooper RS, de Faire U, Deary IJ, Elliott P, Esko T, Farrall M, Franks PW, Freedman BI, Froguel P, Gasparini P, Gieger C, Horta BL, Juang JJ, Kamatani Y, Kammerer CM, Kato N, Kooner JS, Laakso M, Laurie CC, Lee IT, Lehtimäki T; Lifelines Cohort, Magnusson PKE, Oldehinkel AJ, Penninx BWJH, Pereira AC, Rauramaa R, Redline S, Samani NJ, Scott J, Shu XO, van der Harst P, Wagenknecht LE, Wang JS, Wang YX, Wareham NJ, Watkins H, Weir DR, Wickremasinghe AR, Wu T, Zeggini E, Zheng W, Bouchard C, Evans MK, Gudnason V, Kardia SLR, Liu Y, Psaty BM, Ridker PM, van Dam RM, Mook-Kanamori DO, Fornage M, Province MA, Kelly TN, Fox ER, Hayward C, van Duijn CM, Tai ES, Wong TY, Loos RJF, Franceschini N, Rotter JI, Zhu X, Bierut LJ, Gauderman WJ, Rice K, Munroe PB, Morrison AC, Rao DC, Rotimi CN, Cupples LA. Multi-ancestry genome-wide gene-smoking interaction study of 387,272 individuals identifies new loci associated with serum lipids. **Nat Genet** 2019; 51:636-648. doi: 10.1038/s41588-019-0378-y.
291. Säisänen L, Määttä S, Julkunen P, Niskanen E, Kallioniemi E, Gröhn H, Kemppainen S, Lakka TA, Lintu N, Eloranta AM, Vanninen R, Makkonen I, Könönen M. Functional and structural asymmetry in primary motor cortex in Asperger syndrome: a navigated TMS and imaging study. **Brain Topogr** 2019;32:504-518. <https://doi.org/10.1007/s10548-019-00704-0>
292. Warrington NM, Beaumont RN, Horikoshi M, Day FR, Helgeland Ø, Laurin C, Bacelis J, Peng S, Hao K, Feenstra B, Wood AR, Mahajan A, Tyrrell J, Robertson N, Rayner NW, Qiao Z, Moen GH, Vaudel M, Marsit CJ, Chen J, Nodzenski M, Schnurr TM, Zafarmand MH, Bradfield JP, Grarup N, Kooijman MN, Li-Gao R, Geller F, Ahluwalia TS, Paternoster L, Rueedi R, Huikari V, Hottenga JJ, Lyytikäinen LP, Cavadino L, Metrusey S, Cousminer DL, Wu Y, Thiering E, Wang CA, Have CT, Vilor-Tejedor N, Joshi P, Painter JN, Ntalla I, Myhre R, Pitkänen N, van Leeuwen EM, Joro R, Lagou V, Richmond R, Espinosa A, Barton SJ, Inskip HM, Holloway JW, Santa-Marina L, Estivill X, Ang W, Marsh JA, Reichetzeder C, Marullo L, Hocher B, Lunetta KL, Murabito JM, Relton CL, Kogevinas M, Chatzi L, Allard C, Bouchard L, Hivert MF, Zhang G, Muglia LJ, Heikkinen J, Morgen CS, van Kampen AHC, van Shaik BDC, Mentch FD, Langenberg C, Luan J, Scott RA, Zhao JH, Hemani G, Ring SM, Bennett AJ, Gaulton KJ, Fernandez-Tajes J, van Zuydam NR, Medina-Gomez C, de Haan HG, Rosendaal FR, Katalik Z, Marques-Vidal P, Das S, Willemse G, Mbarek H, Müller-Nurasyid M, Stndl M, Appel EVR, Fonvig CE, Trier C, van Beijsterveldt CEM, Murcia M, Bustamante M, Bonas-Guarch S, Hougaard DM, Mercader JM, Linneberg A, Schraut KE, Lind PA, Medland SE, Shields BM, Knight BA, Chai JF, Panoutsopoulou K, Bartels M, Sánchez F, Stokholm J, Torrents D, Vinding RK, Prokopenko I, Tuke MA, Yaghootkar H, Ruth KS, Jones SE, Loh PR, Murray A, Weedon MN, Tonjes A, Stumvoll M, Michaelsen KF, Eloranta AM, Lakka TA, van Duijn CM, Kiess W, Körner A, Niinikoski H, Pahkala K, Raitakari OT,

- Jacobsson B, Zeggini E, Dedoussis GV, Teo YY, Saw SM, Montgomery GW, Campbell H, Wilson JF, Vrijkotte TGM, Vrijheid M, de Geus EJCN, Hayes MG, Kadarmideen H, Holm JC, Beilin LJ, Pennell CE, Heinrich J, Adair LS, Borja JB, Mohlke KL, Eriksson JG, Widen EE, Hattersley AT, Spector TD, Kahonen M, Viikari JS, Lehtimaki T, Boomsma DI, Sebert S, Vollenweider P, Sørensen TIA, Bisgaard H, Bønnelykke K, Murray JC, Melbye M, Nohr EA, Mook-Kanamori DO, Rivadeneira F, Hofman A, Felix JF, Jaddoe VWV, Hansen T, Pisinger C, Vaag AA, Pedersen O, Uitterlinden AG, Jarvelin MR, Power C, Hyppönen E, Scholtens DM, Lowe WL Jr, Smith GD, Timpson NJ, Morris AP, Wareham NJ, Hakonarson H, Grant SFA, Frayling TM, Lawlor DA, Njølstad PR, Johansson S, Ong KK, McCarthy MI, Perry JRB, Evans DM, Freathy RM. Maternal and fetal genetic effects on birth weight and their relevance to cardio-metabolic risk factors. **Nat Genet** 2019;51:804-814. doi: 10.1038/s41588-019-0403-1.
293. Taylor DL, Jackson AU, Narisu N, Hemani G, Erdos MR, Chines PS, Swift A, Idol J, Didion JP, Welch RP, Kinnunen L, Saramies J, Lakka TA, Laakso M, Tuomilehto J, Parker SCJ, Koistinen HA, Davey Smith G, Boehnke M, Scott LJ, Birney E, Collins FS. Integrative analysis of gene expression, DNA methylation, physiological traits, and genetic variation in human skeletal muscle. **Proc Natl Acad Sci U S A** 2019; 116(22):10883-10888. doi: 10.1073/pnas.1814263116.
294. Middeldorp CM, Felix JF, Mahajan A, EArly Genetics Lifecourse Epidemiology (EAGLE) consortium, Early Growth Genetics (EGG) consortium, McCarthy MI. The Early Growth Genetics (EGG) and EArly Genetics and Lifecourse Epidemiology (EAGLE) consortia: design, results and future prospects. **Eur J Epidemiol** 2019;34:279–300.
<https://doi.org/10.1007/s10654-019-00502-9>.
295. Sung YJ, de Las Fuentes L, Winkler TW, Chasman DI, Bentley AR, Kraja AT, Ntalla I, Warren HR, Guo X, Schwander K, Manning AK, Brown MR, Aschard H, Feitosa MF, Franceschini N, Lu Y, Cheng CY, Sim X, Vojinovic D, Marten J, Musani SK, Kilpeläinen TO, Richard MA, Aslibekyan S, Bartz TM, Dorajoo R, Li C, Liu Y, Rankinen T, Smith AV, Tajuddin SM, Tayo BO, Zhao W, Zhou Y, Matoba N, Sofer T, Alver M, Amini M, Boissel M, Chai JF, Chen X, Divers J, Gandin I, Gao C, Giulianini F, Goel A, Harris SE, Hartwig FP, He M, Horimoto ARVR, Hsu FC, Jackson AU, Kammerer CM, Kasturiratne A, Komulainen P, Kühnel B, Leander K, Lee WJ, Lin KH, Luan J, Lyytikäinen LP, McKenzie CA, Nelson CP, Noordam R, Scott RA, Sheu WHH, Stančáková A, Takeuchi F, van der Most PJ, Varga TV, Waken RJ, Wang H, Wang Y, Ware EB, Weiss S, Wen W, Yanek LR, Zhang W, Zhao JH, Afaq S, Alfred T, Amin N, Arking DE, Aung T, Barr RG, Bielak LF, Boerwinkle E, Bottinger EP, Braund PS, Brody JA, Broeckel U, Cade B, Campbell A, Canouil M, Chakravarti A, Cocca M, Collins FS, Connell JM, de Mutsert R, de Silva HJ, Dörr M, Duan Q, Eaton CB, Ehret G, Evangelou E, Faul JD, Forouhi NG, Franco OH, Friedlander Y, Gao H, Gigante B, Gu CC, Gupta P, Hagenaars SP, Harris TB, He J, Heikkinen S, Heng CK, Hofman A, Howard BV, Hunt SC, Irvin MR, Jia Y, Katsuya T, Kaufman J, Kerrison ND, Khor CC, Koh WP, Koistinen HA, Kooperberg CB, Krieger JE, Kubo M, Kutalik Z, Kuusisto J, Lakka TA, Langefeld CD, Langenberg C, Launer LJ, Lee JH, Lehne B, Levy D, Lewis CE, Li Y; Lifelines Cohort Study, Lim SH, Liu CT, Liu J, Liu J, Liu Y, Loh M, Lohman KK, Louie T, Mägi R, Matsuda K, Meitinger T, Metspalu A, Milani L, Momozawa Y, Mosley TH Jr, Nalls MA, Nasri U, O'Connell JR, Ogunniyi A, Palmas WR, Palmer ND, Pankow JS, Pedersen NL, Peters A, Peyser PA, Polasek O, Porteous D, Raitakari OT, Renström F, Rice TK, Ridker PM, Robino A, Robinson JG, Rose LM, Rudan I, Sabanayagam C, Salako BL, Sandow K, Schmidt CO, Schreiner PJ, Scott WR, Sever P, Sims M, Siltani CM, Smith BH, Smith JA, Snieder H, Starr JM, Strauch K, Tang H, Taylor KD, Teo YY, Tham YC, Uitterlinden AG, Waldenberger M,

Wang L, Wang YX, Wei WB, Wilson G, Wojczynski MK, Xiang YB, Yao J, Yuan JM, Zonderman AB, Becker DM, Boehnke M, Bowden DW, Chambers JC, Chen YI, Weir DR, de Faire U, Deary IJ, Esko T, Farrall M, Forrester T, Freedman BI, Froguel P, Gasparini P, Gieger C, Horta BL, Hung YJ, Jonas JB, Kato N, Kooper JS, Laakso M, Lehtimäki T, Liang KW, Magnusson PKE, Oldehinkel AJ, Pereira AC, Perls T, Rauramaa R, Redline S, Rettig R, Samani NJ, Scott J, Shu XO, van der Harst P, Wagenknecht LE, Wareham NJ, Watkins H, Wickremasinghe AR, Wu T, Kamatani Y, Laurie CC, Bouchard C, Cooper RS, Evans MK, Gudnason V, Hixson J, Kardia SLR, Kritchevsky SB, Psaty BM, van Dam RM, Arnett DK, Mook-Kanamori DO, Fornage M, Fox ER, Hayward C, van Duijn CM, Tai ES, Wong TY, Loos RJF, Reiner AP, Rotimi CN, Bierut LJ, Zhu X, Cupples LA, Province MA, Rotter JI, Franks PW, Rice K, Elliott P, Caulfield MJ, Gauderman WJ, Munroe PB, Rao DC, Morrison AC. A multi-ancestry genome-wide study incorporating gene-smoking interactions identifies multiple new loci for pulse pressure and mean arterial pressure. **Hum Mol Genet** 2019; 28:2615-2633. doi: 10.1093/hmg/ddz070.

296. Turcot V, Lu Y, Highland HM, Schurmann C, Justice AE, Fine RS, Bradfield JP, Esko T, Giri A, Graff M, Guo X, Hendricks AE, Karaderi T, Lempradl A, Locke AE, Mahajan A, Marouli E, Sivapalaratnam S, Young KL, Alfred T, Feitosa MF, Masca NGD, Manning AK, Medina-Gomez C, Mudgal P, Ng MCY, Reiner AP, Vedantam S, Willems SM, Winkler TW, Abecasis G, Aben KK, Alam DS, Alharthi SE, Allison M, Amouyel P, Asselbergs FW, Auer PL, Balkau B, Bang LE, Barroso I, Bastarache L, Benn M, Bergmann S, Bielak LF, Blüher M, Boehnke M, Boeing H, Boerwinkle E, Böger CA, Bork-Jensen J, Bots ML, Bottinger EP, Bowden DW, Brandslund I, Breen G, Brilliant MH, Broer L, Brummat M, Burt AA, Butterworth AS, Campbell PT, Cappellani S, Carey DJ, Catamo E, Caulfield MJ, Chambers JC, Chasman DI, Chen YI, Chowdhury R, Christensen C, Chu AY, Cocca M, Collins FS, Cook JP, Corley J, Galbany JC, Cox AJ, Crosslin DS, Cuellar-Partida G, D'Eustacchio A, Danesh J, Davies G, Bakker PIW, Groot MCH, Mutsert R, Deary IJ, Dedoussis G, Demerath EW, Heijer M, Hollander AI, Ruijter HM, Dennis JG, Denny JC, Di Angelantonio E, Drenos F, Du M, Dubé MP, Dunning AM, Easton DF, Edwards TL, Ellinghaus D, Ellinor PT, Elliott P, Evangelou E, Farmaki AE, Farooqi IS, Faul JD, Fauser S, Feng S, Ferrannini E, Ferrieres J, Florez JC, Ford I, Fornage M, Franco OH, Franke A, Franks PW, Friedrich N, Frikke-Schmidt R, Galesloot TE, Gan W, Gandin I, Gasparini P, Gibson J, Giedraitis V, Gjesing AP, Gordon-Larsen P, Gorski M, Grabe HJ, Grant SFA, Grarup N, Griffiths HL, Grove ML, Gudnason V, Gustafsson S, Haessler J, Hakonarson H, Hammerschlag AR, Hansen T, Harris KM, Harris TB, Hattersley AT, Have CT, Hayward C, He L, Heard-Costa NL, Heath AC, Heid IM, Helgeland Ø, Hernesniemi J, Hewitt AW, Holmen OL, Hovingh GK, Howson JMM, Hu Y, Huang PL, Huffman JE, Ikram MA, Ingelsson E, Jackson AU, Jansson JH, Jarvik GP, Jensen GB, Jia Y, Johansson S, Jørgensen ME, Jørgensen T, Jukema JW, Kahali B, Kahn RS, Kähönen M, Kamstrup PR, Kanoni S, Kaprio J, Karaleftheri M, Kardia SLR, Karpe F, Kathiresan S, Kee F, Kiemeney LA, Kim E, Kitajima H, Komulainen P, Kooperberg C, Korhonen T, Kovacs P, Kuivaniemi H, Kutilik Z, Kuulasmaa K, Kuusisto J, Laakso M, Lakka TA, Lamparter D, Lange EM, Lange LA, Langenberg C, Larson EB, Lee NR, Lehtimäki T, Lewis CE, Li H, Li J, Li-Gao R, Lin H, Lin KH, Lin LA, Lin X, Lind L, Lindström J, Linneberg A, Liu CT, Liu DJ, Liu Y, Lo KS, Lophatananon A, Lotery AJ, Loukola A, Luan J, Lubitz SA, Lyytikäinen LP, Männistö S, Marenne G, Mazul AL, McCarthy MI, McKean-Cowdin R, Medland SE, Meidtner K, Milani L, Mistry V, Mitchell P, Mohlke KL, Moilanen L, Moitry M, Montgomery GW, Mook-Kanamori DO, Moore C, Mori TA, Morris AD, Morris AP, Müller-Nurasyid M, Munroe PB, Nalls MA, Narisu N, Nelson CP, Neville M, Nielsen SF, Nikus K, Njølstad PR, Nordestgaard BG, Nyholt DR, O'Connel JR, O'Donoghue ML, Loohuis LMO, Ophoff RA, Owen KR, Packard CJ, Padmanabhan S, Palmer CNA, Palmer ND, Pasterkamp G, Patel AP,

- Pattie A, Pedersen O, Peissig PL, Peloso GM, Pennell CE, Perola M, Perry JA, Perry JRB, Pers TH, Person TN, Peters A, Petersen ERB, Peyser PA, Pirie A, Polasek O, Polderman TJ, Puolijoki H, Raitakari OT, Rasheed A, Rauramaa R, Reilly DF, Renström F, Rheinberger M, Ridker PM, Rioux JD, Rivas MA, Roberts DJ, Robertson NR, Robino A, Rolandsson O, Rudan I, Ruth KS, Saleheen D, Salomaa V, Samani NJ, Sapkota Y, Sattar N, Schoen RE, Schreiner PJ, Schulze MB, Scott RA, Segura-Lepe MP, Shah SH, Sheu WH, Sim X, Slater AJ, Small KS, Smith AV, Southam L, Spector TD, Speliotes EK, Starr JM, Stefansson K, Steinhorsdottir V, Stirrups KE, Strauch K, Stringham HM, Stumvoll M, Sun L, Surendran P, Swift AJ, Tada H, Tansey KE, Tardif JC, Taylor KD, Teumer A, Thompson DJ, Thorleifsson G, Thorsteinsdottir U, Thuesen BH, Tönjes A, Tromp G, Trompet S, Tsafantakis E, Tuomilehto J, Tybjaerg-Hansen A, Tyrer JP, Uher R, Uitterlinden AG, Uusitupa M, Laan SW, Duijn CM, Leeuwen N, van Setten J, Vanhala M, Varbo A, Varga TV, Varma R, Edwards DRV, Vermeulen SH, Veronesi G, Vestergaard H, Vitart V, Vogt TF, Völker U, Vuckovic D, Wagenknecht LE, Walker M, Wallentin L, Wang F, Wang CA, Wang S, Wang Y, Ware EB, Wareham NJ, Warren HR, Waterworth DM, Wessel J, White HD, Willer CJ, Wilson JG, Witte DR, Wood AR, Wu Y, Yaghootkar H, Yao J, Yao P, Yerges-Armstrong LM, Young R, Zeggini E, Zhan X, Zhang W, Zhao JH, Zhao W, Zhou W, Zondervan KT; CHD Exome+ Consortium; EPIC-CVD Consortium; ExomeBP Consortium; Global Lipids Genetic Consortium; GoT2D Genes Consortium; EPIC InterAct Consortium; INTERVAL Study; ReproGen Consortium; T2D-Genes Consortium; MAGIC Investigators; Understanding Society Scientific Group, Rotter JI, Pospisilik JA, Rivadeneira F, Borecki IB, Deloukas P, Frayling TM, Lettre G, North KE, Lindgren CM, Hirschhorn JN, Loos RJF. Publisher Correction: Protein-altering variants associated with body mass index implicate pathways that control energy intake and expenditure in obesity. **Nat Genet** 2019;51:1191-1192. doi: 10.1038/s41588-019-0447-2.
297. Tompuri TT, Jääskeläinen J, Lindi V, Laaksonen DE, Eloranta AM, Viitasalo A, Laitinen T, Lakka TA. Adiposity criteria in assessing increased cardiometabolic risk in prepubertal children. **Front Endocrinol (Lausanne)** 2019;10:410. doi: 10.3389/fendo.2019.00410.
298. Viitasalo A, Schnurr TM, Pitkänen N, Hollensted M, Nielsen TRH, Pahkala K, Lintu N, Lind MV, Atalay M, Frithioff-Bøjsøe C, Fonvig CE, Grarup N, Kähönen M, Larnkjaer A, Pedersen O, Holm JC, Michaelsen KF, Lakka TA, Lehtimäki T, Raitakari O, Hansen T, Kilpeläinen TO. Genetic predisposition to higher body fat yet lower cardiometabolic risk in children and adolescents. **Int J Obes (Lond)** 2019;43:2007-2016. doi: 10.1038/s41366-019-0414-0.
299. Mäntyselkä A, Haapala EA, Lindi V, Häkkinen MR, Auriola S, Jääskeläinen J, Lakka TA. Associations of IGF-1 and adrenal androgens with cognition in childhood. **Horm Res Paediatr** 2019;91:329-335. doi: 10.1159/000501719.
300. Viitasalo A, Schnurr TM, Pitkänen N, Hollensted M, Nielsen TRH, Pahkala K, Atalay M, Lind MV, Heikkinen S, Frithioff-Bøjsøe C, Fonvig CE, Grarup N, Kähönen M, Carrasquilla GD, Larnkjaer A, Pedersen O, Michaelsen KF, Lakka TA, Holm JC, Lehtimäki T, Raitakari O, Hansen T, Kilpeläinen TO. Abdominal adiposity and cardiometabolic risk factors in children and adolescents: a Mendelian randomization analysis. **Am J Clin Nutr** 2019;110:1079-1087. doi: 10.1093/ajcn/nqz187.
301. Bradfield JP, Vogeleyang S, Felix JF, Chesi A, Helgeland Ø, Horikoshi M, Karhunen V, Lowry E, Cousminer DL, Ahluwalia TS, Thiering E, Boh ET, Zafarmand MH, Vilor-Tejedor N, Wang CA, Joro R, Chen Z, Gauderman WJ, Pitkänen N, Parra EJ, Fernandez-Rhodes L, Alyass A, Monnereau C, Curtin JA, Have CT, McCormack SE, Hollensted M, Frithioff-Bøjsøe C, Valladares-Salgado A, Peralta-Romero J, Teo YY, Standl M, Leinonen JT, Holm JC, Peters T, Vioque J, Vrijheid M, Simpson A, Custovic A, Vaudel M, Canouil M, Lindi V, Atalay M,

- Kähönen M, Raitakari OT, van Schaik BDC, Berkowitz RI, Cole SA, Voruganti VS, Wang Y, Highland HM, Comuzzie AG, Butte NF, Justice AE, Gahagan S, Blanco E, Lehtimäki T, Lakka TA, Hebebrand J, Bonnefond A, Grarup N, Froguel P, Lyytikäinen LP, Cruz M, Kobes S, Hanson RL, Zemel BS, Hinney A, Teo KK, Meyre D, North KE, Gilliland FD, Bisgaard H, Bustamante M, Bonnelykke K, Pennell CE, Rivadeneira F, Uitterlinden AG, Baier LJ, Vrijkotte TGM, Heinrich J, Sørensen TIA, Saw SM, Pedersen O, Hansen T, Eriksson J, Widén E, McCarthy MI, Njølstad PR, Power C, Hyppönen E, Sebert S, Brown CD, Järvelin MR, Timpson NJ, Johansson S, Hakonarson H, Jaddoe VWV, Grant SFA; Early Growth Genetics Consortium. A trans-ancestral meta-analysis of genome-wide association studies reveals loci associated with childhood obesity. **Hum Mol Genet** 2019;28:3327-3338. doi: 10.1093/hmg/ddz161.
302. Veijalainen A, Haapala EA, Väistö J, Leppänen MH, Lintu N, Tompuri T, Seppälä S, Ekelund U, Tarvainen MP, Westgate K, Brage S, Lakka TA. Associations of physical activity, sedentary time, and cardiorespiratory fitness with heart rate variability in 6- to 9-year-old children: the PANIC Study. **Eur J Appl Physiol** 2019;119:2487-2498. doi: 10.1007/s00421-019-04231-5.
303. Noordam R, Bos MM, Wang H, Winkler TW, Bentley AR, Kilpeläinen TO, de Vries PS, Sung YJ, Schwander K, Cade BE, Manning A, Aschard H, Brown MR, Chen H, Franceschini N, Musani SK, Richard M, Vojinovic D, Aslibekyan S, Bartz TM, de Las Fuentes L, Feitosa M, Horimoto AR, Ilkov M, Kho M, Kraja A, Li C, Lim E, Liu Y, Mook-Kanamori DO, Rankinen T, Tajuddin SM, van der Spek A, Wang Z, Marten J, Laville V, Alver M, Evangelou E, Graff ME, He M, Kühnel B, Lyytikäinen LP, Marques-Vidal P, Nolte IM, Palmer ND, Rauramaa R, Shu XO, Snieder H, Weiss S, Wen W, Yanek LR, Adolfo C, Ballantyne C, Bielak L, Biermasz NR, Boerwinkle E, Dimou N, Eiriksdottir G, Gao C, Gharib SA, Gottlieb DJ, Haba-Rubio J, Harris TB, Heikkinen S, Heinzer R, Hixson JE, Homuth G, Ikram MA, Komulainen P, Krieger JE, Lee J, Liu J, Lohman KK, Luik AI, Mägi R, Martin LW, Meitinger T, Metspalu A, Milaneschi Y, Nalls MA, O'Connell J, Peters A, Peyser P, Raitakari OT, Reiner AP, Rensen PCN, Rice TK, Rich SS, Roenneberg T, Rotter JI, Schreiner PJ, Shikany J, Sidney SS, Sims M, Sitlani CM, Sofer T, Strauch K, Swertz MA, Taylor KD, Uitterlinden AG, van Duijn CM, Völzke H, Waldenberger M, Wallance RB, van Dijk KW, Yu C, Zonderman AB, Becker DM, Elliott P, Esko T, Gieger C, Grabe HJ, Lakka TA, Lehtimäki T, North KE, Penninx BWJH, Vollenweider P, Wagenknecht LE, Wu T, Xiang YB, Zheng W, Arnett DK, Bouchard C, Evans MK, Gudnason V, Kardia S, Kelly TN, Kritchevsky SB, Loos RJF, Pereira AC, Province M, Psaty BM, Rotimi C, Zhu X, Amin N, Cupples LA, Fornage M, Fox EF, Guo X, Gauderman WJ, Rice K, Kooperberg C, Munroe PB, Liu CT, Morrison AC, Rao DC, van Heemst D, Redline S. Multi-ancestry sleep-by-SNP interaction analysis in 126,926 individuals reveals lipid loci stratified by sleep duration. **Nat Commun** 2019;10:5121. doi: 10.1038/s41467-019-12958-0.
304. Couto Alves A, De Silva NMG, Karhunen V, Sovio U, Das S, Taal HR, Warrington NM, Lewin AM, Kaakinen M, Cousminer DL, Thiering E, Timpson NJ, Bond TA, Lowry E, Brown CD, Estivill X, Lindi V, Bradfield JP, Geller F, Speed D, Coin LJM, Loh M, Barton SJ, Beilin LJ, Bisgaard H, Bønnelykke K, Alili R, Hatoum IJ, Schramm K, Cartwright R, Charles MA, Salerno V, Clément K, Claringbould AAJ; BIOS Consortium, van Duijn CM, Moltchanova E, Eriksson JG, Elks C, Feenstra B, Flexeder C, Franks S, Frayling TM, Freathy RM, Elliott P, Widén E, Hakonarson H, Hattersley AT, Rodriguez A, Banterle M, Heinrich J, Heude B, Holloway JW, Hofman A, Hyppönen E, Inskip H, Kaplan LM, Hedman AK, Läärä E, Prokisch H, Grallert H, Lakka TA, Lawlor DA, Melbye M, Ahluwalia TS, Marinelli M, Millwood IY, Palmer LJ, Pennell CE, Perry JR, Ring SM, Savolainen MJ, Rivadeneira F, Standl M, Sunyer J,

- Tiesler CMT, Uitterlinden AG, Schierding W, O'Sullivan JM, Prokopenko I, Herzig KH, Smith GD, O'Reilly P, Felix JF, Buxton JL, Blakemore AIF, Ong KK, Jaddoe VWV, Grant SFA, Sebert S, McCarthy MI, Järvelin MR; Early Growth Genetics (EGG) Consortium. GWAS on longitudinal growth traits reveals different genetic factors influencing infant, child, and adult BMI. **Sci Adv** 2019;5(9):eaaw3095. doi: 10.1126/sciadv.aaw3095.
305. Tilles-Tirkkonen T, Aittola K, Männikkö R, Absetz P, Kolehmainen M, Schwab U, Lindström J, Lakka T, Pihlajamäki J, Karhunen L. Eating competence is associated with lower prevalence of obesity and better insulin sensitivity in Finnish adults with increased risk for type 2 diabetes: the StopDia Study. **Nutrients** 2019;12(1)104. doi: 10.3390/nu12010104.
306. Laukkonen JA, Lakka TA, Ogunjesa BA, Kurl S, Kunutsor SK. Cross-country skiing and the risk of acute myocardial infarction: A prospective cohort study. **Eur J Prev Cardiol** 2020;27:1108-1111. doi: 10.1177/2047487319869696.
307. Leppänen MH, Haapala EA, Veijalainen A, Seppälä S, Oliveira RS, Lintu N, Laitinen T, Tarvainen MP, Lakka TA. Associations of cardiometabolic risk factors with heart rate variability in 6–8-year-old children: the PANIC Study. **Pediatr Diabetes** 2020;21:251-258. doi: 10.1111/pedi.12967.
308. Naveed S, Lakka T, Haapala EA. An overview on the associations between health behaviors and brain health in children and adolescents with special reference to diet quality. **Int J Environ Res Public Health** 2020;17(3):953. doi: 10.3390/ijerph17030953.
309. Haapala EA, Wiklund P, Lintu N, Tompuri T, Väistö J, Finni T, Tarkka IM, Kemppainen T, Barker AR, Ekelund U, Brage S, Lakka TA. Cardiorespiratory fitness, physical activity, and insulin resistance in children. **Med Sci Sports Exerc** 2020;52(5):1144-1152. doi: 10.1249/MSS.0000000000002216.
310. Savinainen S, Viitasalo A, Sallinen T, Jääskeläinen J, Lakka TA. Child-related and parental predictors for thelarche in a general population of girls: the PANIC study. **Pediatr Res** 2020; 88:676-680. doi: 10.1038/s41390-020-0802-0.
311. Naveed S, Venäläinen T, Eloranta AM, Erkkilä AT, Jalkanen H, Lindi V, Lakka TA, Haapala EA. Associations of dietary carbohydrate and fatty acid intakes with cognition among children. **Public Health Nutr** 2020;23:1657-1663. doi: 10.1017/S1368980019003860.
312. Kunutsor SK, Lakka TA, Kurl S, Mäkipallio TH, Jae SY, Laukkonen JA. Leisure-time cross-country skiing and the risk of venous thromboembolism: A prospective cohort study. **Eur J Prev Cardiol** 2020 (in press). doi: 10.1177/2047487320908978.
313. Eloranta AM, Sallinen T, Viitasalo A, Lintu N, Väistö J, Jalkanen H, Tompuri TT, Soininen S, Haapala EA, Kiiskinen S, Schnurr TM, Kilpeläinen TO, Mikkonen S, Savonen K, Atalay M, Brage S, Laaksonen DE, Lindi V, Ågren J, Schwab U, Jääskeläinen J, Lakka TA. The effects of a 2-year physical activity and dietary intervention on plasma lipid concentrations in children: the PANIC Study. **Eur J Nutr** 2021;60:425-434. doi: 10.1007/s00394-020-02260-x.
314. Lakka TA, Lintu N, Väistö J, Viitasalo A, Sallinen T, Haapala EA, Tompuri TT, Soininen S, Karjalainen P, Schnurr TM, Mikkonen S, Atalay M, Kilpeläinen TO, Laitinen T, Laaksonen DE, Savonen K, Brage S, Schwab U, Jääskeläinen J, Lindi V, Eloranta AM. A 2-year physical activity and dietary intervention attenuates the increase in insulin resistance in a general population of children: the PANIC study. **Diabetologia** 2020;63:2270-2281. doi: 10.1007/s00125-020-05250-0.
315. El-Sayed Moustafa JS, Jackson AU, Brotman SM, Guan L, Villicaña S, Roberts AL, Zito A,

- Bonycastle L, Erdos MR, Narisu N, Stringham HM, Welch R, Yan T, Lakka T, Parker S, Tuomilehto J, Collins FS, Pajukanta P, Boehnke M, Koistinen HA, Laakso M, Falchi M, Bell JT, Scott LJ, Mohlke KL, Small KS. ACE2 expression in adipose tissue is associated with COVID-19 cardio-metabolic risk factors and cell type composition. **medRxiv 2020 (in press)**. doi: 10.1101/2020.08.11.20171108.
316. Surendran P, Feofanova EV, Lahrouchi N, Ntalla I, Karthikeyan S, Cook J, Chen L, Mifsud B, Yao C, Kraja AT, Cartwright JH, Hellwege JN, Giri A, Tragante V, Thorleifsson G, Liu DJ, Prins BP, Stewart ID, Cabrera CP, Eales JM, Akbarov A, Auer PL, Bielak LF, Bis JC, Braithwaite VS, Brody JA, Daw EW, Warren HR, Drenos F, Nielsen SF, Faul JD, Fauman EB, Fava C, Ferreira T, Foley CN, Franceschini N, Gao H, Giannakopoulou O, Giulianini F, Gudbjartsson DF, Guo X, Harris SE, Havulinna AS, Helgadottir A, Huffman JE, Hwang SJ, Kanoni S, Kontto J, Larson MG, Li-Gao R, Lindström J, Lotta LA, Lu Y, Luan J, Mahajan A, Mallerba G, Masca NGD, Mei H, Menni C, Mook-Kanamori DO, Mosen-Ansorena D, Müller-Nurasyid M, Paré G, Paul DS, Perola M, Poveda A, Rauramaa R, Richard M, Richardson TG, Sepúlveda N, Sim X, Smith AV, Smith JA, Staley JR, Stanáková A, Sulem P, Thériault S, Thorsteinsdóttir U, Trompet S, Varga TV, Velez Edwards DR, Veronesi G, Weiss S, Willems SM, Yao J, Young R, Yu B, Zhang W, Zhao JH, Zhao W, Zhao W, Evangelou E, Aeschbacher S, Asllanaj E, Blankenberg S, Bonycastle LL, Bork-Jensen J, Brandlund I, Braund PS, Burgess S, Cho K, Christensen C, Connell J, de Mutsert R, Dominiczak AF, Dörr M, Eiriksdottir G, Farmaki AE, Gaziano JM, Grarup N, Grove-Gaona ML, Hallmans G, Hansen T, Have CT, Heiss G, Jørgensen ME, Jousilahti P, Kajantie E, Kamat M, Käräjämäki A, Karpe F, Koistinen HA, Kovacs CP, Kuulasmaa K, Laatikainen T, Lannfelt L, Lee IT, Lee WJ, LifeLines Cohort Study, Linneberg A, Martin LW, Moitry M, Nadkarni G, Neville MJ, Palmer CNA, Papanicolaou GJ, Pedersen O, Peters J, Poulter N, Rasheed A, Rasmussen KL, Rayner NW, Mägi R, Renström F, Rettig R, Rossouw J, Schreiner PJ, Sever PJ, Sigurdsson EL, Skaaby T, Sun YV, Sundstrom J, Thorgeirsson G, Esko T, Trabetti E, Tsao PS, Tuomi T, Turner ST, Tzoulaki I, Vaartjes I, Vergnaud AC, Willer CJ, Wilson PWF, Witte DR, Yonova-Doing E, Zhang H, Aliya N, Almgren P, Amouyel P, Asselbergs FW, Barnes MR, Blakemore AI, Boehnke M, Bots ML, Bottinger EP, Buring JE, Chambers JC, Ida Chen YD, Chowdhury R, Conen D, Correa A, Davey Smith G, de Boer RA, Deary IJ, Dedoussis G, Deloukas P, Di Angelantonio E, Elliott P, EPIC-CVD, EPIC-InterAct, Felix SB, Ferrières J, Ford I, Fornage M, Franks PW, Franks S, Frossard P, Gambaro G, Gaunt TR, Groop L, Gudnason V, Harris TB, Hayward C, Hennig BJ, Herzog KH, Ingelsson E, Tuomilehto J, Jarvelin MR, Jukema JW, Kardia SLR, Kee F, Kooner JS, Kooperberg C, Launer LJ, Lind L, Loos RJF, Shafi Majumder AA, Laakso M, McCarthy MI, Melander O, Mohlke KL, Murray AD, Nordestgaard BG, Orho-Melander M, Packard CP, Padmanabhan S, Palmas W, Polasek O, Porteous DJ, Prentice AM, Province MA, Relton CL, Rice K, Ridker PM, Rolandsson O, Rosendaal FR, Rotter JI, Rudan I, Salomaa V, Samani NJ, Sattar N, Sheu WHH, Smith BH, Soranzo N, Spector TD, Starr JM, Sylvain S, Taylor KD, Lakka TA, Timpson NJ, Tobin MD, Understanding Society Scientific Group, van der Harst P, van der Meer P, Vasan RS, Verweij N, Virtamo J, Völker U, Weir DR, Zeggini E, Charchar FJ, Million Veteran Program, Wareham NJ, Langenberg C, Tomaszewski M, Butterworth AS, Caulfield MJ, Danesh J, Edwards TL, Holm H, Hung AM, Lindgren CM, Liu C, Manning AK, Morris AP, Morrison AC, O'Donnell CJ, Psaty BM, Saleheen D, Stefansson K, Boerwinkle E, Chasman DI, Levy D, Newton-Cheh C, Munroe PB, Howson JMM. Discovery of rare variants associated with blood pressure regulation through meta-analysis of 1.3 million individuals. **Nat Genet 2020;52:1314-1332**. doi: 10.1038/s41588-020-00713-x.
317. de Las Fuentes L, Sung YJ, Noordam R, Winkler T, Feitosa MF, Schwander K, Bentley AR,

Brown MR, Guo X, Manning A, Chasman DI, Aschard H, Bartz TM, Bielak LF, Campbell A, Cheng CY, Dorajoo R, Hartwig FP, Horimoto ARVR, Li C, Li-Gao R, Liu Y, Marten J, Musani SK, Ntalla I, Rankinen T, Richard M, Sim X, Smith AV, Tajuddin SM, Tayo BO, Vojinovic D, Warren HR, Xuan D, Alver M, Boissel M, Chai JF, Chen X, Christensen K, Divers J, Evangelou E, Gao C, Girotto G, Harris SE, He M, Hsu FC, Kühnel B, Laguzzi F, Li X, Lyytikäinen LP, Nolte IM, Poveda A, Rauramaa R, Riaz M, Rueedi R, Shu XO, Snieder H, Sofer T, Takeuchi F, Verweij N, Ware EB, Weiss S, Yanek LR, Amin N, Arking DE, Arnett DK, Bergmann S, Boerwinkle E, Brody JA, Broeckel U, Brumat M, Burke G, Cabrera CP, Canouil M, Chee ML, Chen YI, Cocca M, Connell J, de Silva HJ, de Vries PS, Eiriksdottir G, Faul JD, Fisher V, Forrester T, Fox EF, Friedlander Y, Gao H, Gigante B, Giulianini F, Gu CC, Gu D, Harris TB, He J, Heikkinen S, Heng CK, Hunt S, Ikram MA, Irvin MR, Kähönen M, Kavousi M, Khor CC, Kilpeläinen TO, Koh WP, Komulainen P, Kraja AT, Krieger JE, Langefeld CD, Li Y, Liang J, Liewald DCM, Liu CT, Liu J, Lohman KK, Mägi R, McKenzie CA, Meitinger T, Metspalu A, Milaneschi Y, Milani L, Mook-Kanamori DO, Nalls MA, Nelson CP, Norris JM, O'Connell J, Ogunniyi A, Padmanabhan S, Palmer ND, Pedersen NL, Perls T, Peters A, Petersmann A, Peyser PA, Polasek O, Porteous DJ, Raffel LJ, Rice TK, Rotter JI, Rudan I, Rueda-Ochoa OL, Sabanayagam C, Salako BL, Schreiner PJ, Shikany JM, Sidney SS, Sims M, Sitlani CM, Smith JA, Starr JM, Strauch K, Swertz MA, Teumer A, Tham YC, Uitterlinden AG, Vaidya D, van der Ende MY, Waldenberger M, Wang L, Wang YX, Wei WB, Weir DR, Wen W, Yao J, Yu B, Yu C, Yuan JM, Zhao W, Zonderman AB, Becker DM, Bowden DW, Deary IJ, Dörr M, Esko T, Freedman BI, Froguel P, Gasparini P, Gieger C, Jonas JB, Kammerer CM, Kato N, Lakka TA, Leander K, Lehtimäki T; Lifelines Cohort Study, Magnusson PKE, Marques-Vidal P, Penninx BWJH, Samani NJ, van der Harst P, Wagenknecht LE, Wu T, Zheng W, Zhu X, Bouchard C, Cooper RS, Correa A, Evans MK, Gudnason V, Hayward C, Horta BL, Kelly TN, Kritchevsky SB, Levy D, Palmas WR, Pereira AC, Province MM, Psaty BM, Ridker PM, Rotimi CN, Tai ES, van Dam RM, van Duijn CM, Wong TY, Rice K, Gauderman WJ, Morrison AC, North KE, Kardia SLR, Caulfield MJ, Elliott P, Munroe PB, Franks PW, Rao DC, Fornage M. Gene-educational attainment interactions in a multi-ancestry genome-wide meta-analysis identify novel blood pressure loci. **Mol Psychiatry** 2021;26:2111-2125. doi: 10.1038/s41380-020-0719-3.

318. Lagou V, Mägi R, Hottenga JJ, Grallert H, Perry J, Bouatia-Naji N, Marullo L, Rybin D, Jansen R, Min J, Dimas A, Ulrich A, Zudina L, Gådin J, Jiang L, Faggian A, Bonnefond A, Fadista J, Stathopoulou M, Isaacs A, Willems S, Navarro P, Tanaka T, Jackson A, Montasser M, O'Connell J, Bielak L, Webster R, Saxena R, Stafford J, St Pourcain B, Timpson N, Salo P, Shin SY, Amin N, Smith A, Li G, Verweij N, Goel A, Ford I, Johnson P, Johnson T, Kapur K, Thorleifsson G, Strawbridge R, Rasmussen-Torvik L, Esko T, Mihailov E, Fall T, Fraser R, Mahajan A, Kanoni S, Giedraitis V, Kleber M, Silbernagel G, Meyer J, Muller-Nurasyid M, Ganna A, Sarin AP, Loic Yengo, Shungin D, Luan J, Horikoshi M, An P, Sanna S, Boettcher Y, Rayner NW, Nolte I, Zemunik T, van Iperen E, Kovacs P, Hastie N, Wild S, McLachlan S, Campbell S, Polasek O, Carlson O, Egan J, Kiess W, Willemse G, Kuusisto J, Laakso M, Dimitriou M, Hicks A, Rauramaa R, Bandinelli S, Thorand B, Liu Y, Miljkovic I, Lind L, Doney A, Perola M, Hingorani A, Kivimaki M, Kumari M, Bennett A, Groves C, Herder C, Koistinen H, Kinnunen L, de Faire U, Bakker S, Uusitupa M, Palmer C, Jukema JW, Sattar N, Pouta A, Snieder H, Boerwinkle E, Pankow J, Magnusson P, Krus U, Scapoli C, de Geus E, Blüher M, Wolffenbuttel B, Province M, Abecasis G, Meigs J, Hovingh G, Lindström J, Wilson J, Wright A, Dedoussis G, Bornstein S, Schwarz P, Toenjes A, Winkelmann B, Boehm B, März W, Metspalu A, Price J, Deloukas P, Körner A, Lakka T, Keinanen-Kiukaanniemi S, Saaristo TE, Bergman R, Tuomilehto J, Wareham N, Langenberg C, Männistö S, Franks P, Hayward C, Vitart V, Kaprio J, Visvikis-Siest S, Balkau B, Altshuler D, Rudan I, Stumvoll M,

- Campbell H, van Duijn C, Gieger C, Illig T, Ferrucci L, Pedersen N, Pramstaller P, Boehnke M, Frayling T, Shuldiner A, Peyser P, Kardia S, Palmer L, Penninx B, Meneton P, Harris T, Navis G, van der Harst P, Davey Smith G, Forouhi N, Loos R, Salomaa V, Soranzo N, Boomsma D, Groop L, Tuomi T, Hofman A, Munroe P, Gudnason V, Siscovick D, Watkins H, Lecoeur C, Vollenweider P, Franco-Cereceda A, Eriksson P, Jarvelin MR, Stefansson K, Hamsten A, Nicholson G, Karpe F, Dermitzakis ET, Lindgren C, McCarthy M, Froguel P, Kaakinen M, Lyssenko V, Watanabe R, Ingelsson E, Florez J, Dupuis J, Barroso I, Morris A, Prokopenko I. Sex-dimorphic genetic effects and novel loci for fasting glucose and insulin variability. **Nat Commun** 2021;12(1):24. doi: 10.1038/s41467-020-19366-9.
319. Vogelezang S, Bradfield JP, Ahluwalia TS, Curtin JA, Lakka TA, Grarup N, Scholz M, van der Most PJ, Monnereau C, Stergiakouli E, Heiskala A, Horikoshi M, Fedko IO, Vilor-Tejedor N, Cousminer DL, Standl M, Wang CA, Viikari J, Geller F, Íñiguez C, Pitkänen N, Chesi A, Bacelis J, Yengo L, Torrent M, Ntalla I, Helgeland Ø, Selzam S, Vonk JM, Zafarmand MH, Heude B, Farooqi IS, Alyass A, Beaumont RN, Have CT, Rzebak P, Bilbao JR, Schnurr TM, Barroso I, Bønnelykke K, Beilin LJ, Carstensen L, Charles MA, Chawes B, Clément K, Closa-Monasterolo R, Custovic A, Eriksson JG, Escribano J, Groen-Blokhuis M, Grote V, Grusfeld D, Hakonarson H, Hansen T, Hattersley AT, Hollensted M, Hottenga JJ, Hyppönen E, Johansson S, Joro R, Kähönen M, Karhunen V, Kiess W, Knight BA, Koletzko B, Kühnapfel A, Landgraf K, Langhendries JP, Lehtimäki T, Leinonen JT, Li A, Lindi V, Lowry E, Bustamante M, Medina-Gomez C, Melbye M, Michaelsen KF, Morgen CS, Mori TA, Nielsen TRH, Niinikoski H, Oldehinkel AJ, Pahkala K, Panoutsopoulou K, Pedersen O, Pennell CE, Power C, Reijneveld SA, Rivadeneira F, Simpson A, Sly PD, Stokholm J, Teo KK, Thiering E, Timpson NJ, Uitterlinden AG, van Beijsterveldt CEM, van Schaik BDC, Vaudel M, Verduci E, Vinding RK, Vogel M, Zeggini E, Sebert S, Lind MV, Brown CD, Santa-Marina L, Reischl E, Frithioff-Bøjsøe C, Meyre D, Wheeler E, Ong K, Nohr EA, Vrijkotte TGM, Koppelman GH, Plomin R, Njølstad PR, Dedoussis GD, Froguel P, Sørensen TIA, Jacobsson B, Freathy RM, Zemel BS, Raitakari O, Vrijheid M, Feenstra B, Lyytikäinen LP, Snieder H, Kirsten H, Holt PG, Heinrich J, Widén E, Sunyer J, Boomsma DI, Järvelin MR, Körner A, Davey Smith G, Holm JC, Atalay M, Murray C, Bisgaard H, McCarthy MI; Early Growth Genetics Consortium, Jaddoe VWV, Grant SFA, Felix JF. Novel loci for childhood body mass index and shared heritability with adult cardiometabolic traits. **PLoS Genet** 2020;16(10):e1008718. doi: 10.1371/journal.pgen.1008718.
320. Kårlund A, Kääriäinen T, Kostamo VM, Kokkola T, Kolehmainen M, Lakka TA, Pihlajamäki J, Manninen A. Oxygen-18 and Carbon-13 isotopes in eCO₂ and erythrocytes carbonic anhydrase activity of Finnish prediabetic population. **J Breath Res** 2020 (in press). doi: 10.1088/1752-7163/abd28d.
321. Joro R, Korkmaz A, Lakka TA, Uusitalo ALT, Atalay M. Plasma irisin and its associations with oxidative stress in athletes suffering from overtraining syndrome. **Physiol Int** 2020;107:513-526. doi: 10.1556/2060.2020.00037.
322. Säisänen L, Könönen M, Niskanen E, Lakka T, Lintu N, Vanninen R, Julkunen P, Määttä S. Primary hand motor representation areas in healthy children, preadolescents, adolescents, and adults. **Neuroimage** 2021;228:117702. doi: 10.1016/j.neuroimage.2020.117702.
323. Constable AM, Vlachopoulos D, Barker AR, Moore SA, Soininen S, Haapala EA, Väistö J, Westgate K, Brage S, Mahonen A, Lakka TA. The independent and interactive associations of physical activity intensity and vitamin D status with bone mineral density in prepubertal children: The PANIC Study. **Osteoporosis Int** 2021;32:1609-1620. doi: 10.1007/s00198-021-05872-z.

324. Haapala EA, Gao Y, Lintu N, Väistö J, Vanhala A, Tompuri T, Lakka TA, Finni T. Associations between cardiorespiratory fitness, motor competence, and adiposity in children. **Transl Sports Med** 2021;4:56-64. doi:10.1002/tsm2.198.
325. Haapala EA, Barker AR, Lakka TA. Response. **Med Sci Sports Exerc** 2021;53(2):454. doi: 10.1249/MSS.0000000000002485. PMID: 33416273.
326. Lagou V, Mägi R, Hottenga JJ, Grallert H, Perry JRB, Bouatia-Naji N, Marullo L, Rybin D, Jansen R, Min JL, Dimas AS, Ulrich A, Zudina L, Gådin JR, Jiang L, Faggian A, Bonnefond A, Fadista J, Stathopoulou MG, Isaacs A, Willems SM, Navarro P, Tanaka T, Jackson AU, Montasser ME, O'Connell JR, Bielak LF, Webster RJ, Saxena R, Stafford JM, Pourcain BS, Timpson NJ, Salo P, Shin SY, Amin N, Smith AV, Li G, Verweij N, Goel A, Ford I, Johnson PCD, Johnson T, Kapur K, Thorleifsson G, Strawbridge RJ, Rasmussen-Torvik LJ, Esko T, Mihailov E, Fall T, Fraser RM, Mahajan A, Kanoni S, Giedraitis V, Kleber ME, Silbernagel G, Meyer J, Müller-Nurasyid M, Ganna A, Sarin AP, Yengo L, Shungin D, Luan J, Horikoshi M, An P, Sanna S, Boettcher Y, Rayner NW, Nolte IM, Zemunik T, Iperen EV, Kovacs P, Hastie ND, Wild SH, McLachlan S, Campbell S, Polasek O, Carlson O, Egan J, Kiess W, Willemsen G, Kuusisto J, Laakso M, Dimitriou M, Hicks AA, Rauramaa R, Bandinelli S, Thorand B, Liu Y, Miljkovic I, Lind L, Doney A, Perola M, Hingorani A, Kivimaki M, Kumari M, Bennett AJ, Groves CJ, Herder C, Koistinen HA, Kinnunen L, Faire U, Bakker SJL, Uusitupa M, Palmer CNA, Jukema JW, Sattar N, Pouta A, Snieder H, Boerwinkle E, Pankow JS, Magnusson PK, Krus U, Scapoli C, de Geus EJCN, Blüher M, Wolffenbuttel BHR, Province MA, Abecasis GR, Meigs JB, Hovingh GK, Lindström J, Wilson JF, Wright AF, Dedoussis GV, Bornstein SR, Schwarz PEH, Tönjes A, Winkelmann BR, Boehm BO, März W, Metspalu A, Price JF, Deloukas P, Körner A, Lakka TA, Keinanen-Kiukaanniemi SM, Saaristo TE, Bergman RN, Tuomilehto J, Wareham NJ, Langenberg C, Männistö S, Franks PW, Hayward C, Vitart V, Kaprio J, Visvikis-Siest S, Balkau B, Altshuler D, Rudan I, Stumvoll M, Campbell H, van Duijn CM, Gieger C, Illig T, Ferrucci L, Pedersen NL, Pramstaller PP, Boehnke M, Frayling TM, Shuldiner AR, Peyser PA, Kardia SLR, Palmer LJ, Penninx BW, Meneton P, Harris TB, Navis G, Harst PV, Smith GD, Forouhi NG, Loos RJF, Salomaa V, Soranzo N, Boomsma DI, Groop L, Tuomi T, Hofman A, Munroe PB, Gudnason V, Siscovick DS, Watkins H, Lecoeur C, Vollenweider P, Franco-Cereceda A, Eriksson P, Jarvelin MR, Stefansson K, Hamsten A, Nicholson G, Karpe F, Dermitzakis ET, Lindgren CM, McCarthy MI, Froguel P, Kaakinen MA, Lyssenko V, Watanabe RM, Ingelsson E, Florez JC, Dupuis J, Barroso I, Morris AP, Prokopenko I; Meta-Analyses of Glucose and Insulin-related traits Consortium (MAGIC). Publisher Correction: Sex-dimorphic genetic effects and novel loci for fasting glucose and insulin variability. **Nat Commun** 2021 Feb 8;12(1):995. doi: 10.1038/s41467-021-21276-3.
327. Haapala EA, Väistö J, Ihalainen JK, González CT, Leppänen MH, Veijalainen A, Sallinen T, Eloranta AM, Ekelund U, Schwab U, Brage S, Atalay M, Lakka TA. Associations of physical activity, sedentary time, and diet quality with biomarkers of inflammation in children. **Eur J Sport Sci** 2021 (in press). doi: 10.1080/17461391.2021.1892830.
328. Surendran P, Feofanova EV, Lahrouchi N, Ntalla I, Karthikeyan S, Cook J, Chen L, Mifsud B, Yao C, Kraja AT, Cartwright JH, Hellwege JN, Giri A, Tragante V, Thorleifsson G, Liu DJ, Prins BP, Stewart ID, Cabrera CP, Eales JM, Akbarov A, Auer PL, Bielak LF, Bis JC, Braithwaite VS, Brody JA, Daw EW, Warren HR, Drenos F, Nielsen SF, Faul JD, Fauman EB, Fava C, Ferreira T, Foley CN, Franceschini N, Gao H, Giannakopoulou O, Giulianini F, Gudbjartsson DF, Guo X, Harris SE, Havulinna AS, Helgadottir A, Huffman JE, Hwang SJ, Kanoni S, Kontto J, Larson MG, Li-Gao R, Lindström J, Lotta LA, Lu Y, Luan J, Mahajan A, Mallerba G, Masca NGD, Mei H, Menni C, Mook-Kanamori DO, Mosen-Ansorena D, Müller-

Nurasyid M, Paré G, Paul DS, Perola M, Poveda A, Rauramaa R, Richard M, Richardson TG, Sepúlveda N, Sim X, Smith AV, Smith JA, Staley JR, Stanáková A, Sulem P, Thériault S, Thorsteinsdóttir U, Trompet S, Varga TV, Velez Edwards DR, Veronesi G, Weiss S, Willems SM, Yao J, Young R, Yu B, Zhang W, Zhao JH, Zhao W, Zhao W, Evangelou E, Aeschbacher S, Asllanaj E, Blankenberg S, Bonnycastle LL, Bork-Jensen J, Brandlund I, Braund PS, Burgess S, Cho K, Christensen C, Connell J, Mutsert R, Dominiczak AF, Dörr M, Eiriksdóttir G, Farmaki AE, Gaziano JM, Grarup N, Grove ML, Hallmans G, Hansen T, Have CT, Heiss G, Jørgensen ME, Jousilahti P, Kajantie E, Kamat M, Käräjämäki A, Karpe F, Koistinen HA, Kovacs CP, Kuulasmaa K, Laatikainen T, Lannfelt L, Lee IT, Lee WJ; LifeLines Cohort Study, Linneberg A, Martin LW, Moitry M, Nadkarni G, Neville MJ, Palmer CNA, Papanicolaou GJ, Pedersen O, Peters J, Poulter N, Rasheed A, Rasmussen KL, Rayner NW, Mägi R, Renström F, Rettig R, Rossouw J, Schreiner PJ, Sever PS, Sigurdsson EL, Skaaby T, Sun YV, Sundstrom J, Thorgeirsson G, Esko T, Trabetti E, Tsao PS, Tuomi T, Turner ST, Tzoulaki I, Vaartjes I, Vergnaud AC, Willer CJ, Wilson PWF, Witte DR, Yonova-Doing E, Zhang H, Aliya N, Almgren P, Amouyel P, Asselbergs FW, Barnes MR, Blakemore AI, Boehnke M, Bots ML, Bottinger EP, Buring JE, Chambers JC, Chen YI, Chowdhury R, Conen D, Correa A, Davey Smith G, Boer RA, Deary IJ, Dedoussis G, Deloukas P, Di Angelantonio E, Elliott P; EPIC-CVD; EPIC-InterAct, Felix SB, Ferrières J, Ford I, Fornage M, Franks PW, Franks S, Frossard P, Gambaro G, Gaunt TR, Groop L, Gudnason V, Harris TB, Hayward C, Hennig BJ, Herzig KH, Ingelsson E, Tuomilehto J, Järvelin MR, Jukema JW, Kardia SLR, Kee F, Kooner JS, Kooperberg C, Launer LJ, Lind L, Loos RJF, Majumder AAS, Laakso M, McCarthy MI, Melander O, Mohlke KL, Murray AD, Nordestgaard BG, Orho-Melander M, Packard CJ, Padmanabhan S, Palmas W, Polasek O, Porteous DJ, Prentice AM, Province MA, Relton CL, Rice K, Ridker PM, Rolandsson O, Rosendaal FR, Rotter JI, Rudan I, Salomaa V, Samani NJ, Sattar N, Sheu WH, Smith BH, Soranzo N, Spector TD, Starr JM, Sebert S, Taylor KD, Lakka TA, Timpson NJ, Tobin MD; Understanding Society Scientific Group, van der Harst P, van der Meer P, Ramachandran VS, Verweij N, Virtamo J, Völker U, Weir DR, Zeggini E, Charchar FJ; Million Veteran Program, Wareham NJ, Langenberg C, Tomaszewski M, Butterworth AS, Caulfield MJ, Danesh J, Edwards TL, Holm H, Hung AM, Lindgren CM, Liu C, Manning AK, Morris AP, Morrison AC, O'Donnell CJ, Psaty BM, Saleheen D, Stefansson K, Boerwinkle E, Chasman DI, Levy D, Newton-Cheh C, Munroe PB, Howson JMM. Publisher Correction: Discovery of rare variants associated with blood pressure regulation through meta-analysis of 1.3 million individuals. **Nat Genet** 2021;53:762. doi: 10.1038/s41588-021-00832-z.

329. Komulainen P, Tuomilehto J, Savonen K, Männikkö R, Hassinen M, Lakka TA, Hänninen T, Kiviniemi V, Jacobs DR, Kivipelto M, Rauramaa R. Exercise, diet, and cognition in a 4-year randomized controlled trial: Dose-Responses to Exercise Training (DR's EXTRA). **Am J Clin Nutr** 2021;113:1428-1439. doi: 10.1093/ajcn/nqab018.
330. Chen J, Spracklen CN, Marenne G, Varshney A, Corbin LJ, Luan J, Willems S, Wu Y, Zhang X, Horikoshi M, Boutin TS, Mägi R, Waage J, Pitsilides A, Li-Gao R, Chang KHK, Yao J, Anasanti MD, Chu AY, Claringbould A, Heikkinen J, Hong J, Hottenga JJ, Huo S, Kaakinen MA, Louie T, März W, Moreno-Macias H, Ndungu A, Nelson SC, Nolte IM, North KE, Raulerson CK, Ray D, Rohde R, Rybin D, Schurmann C, Sim X, Southam L, Stewart ID, Wang CA, Wang Y, Wu P, Zhang W, Ahluwalia TS, Appel EVR, Bielak LF, Brody JA, Burtt NP, Cabrera CP, Cade BE, Chai JF, Chai X, Chang LC, Chen CH, Chen BH, Chitrala KN, Chiu YF, de Haan HG, Delgado GE, Demirkhan A, Duan Q, Engmann J, Fatumo SA, Gayán J, Giulianini F, Gong JH, Gustafsson S, Hai Y, Hartwig FP, He J, Heianza Y, Huang T, Huerta-Chagoya A, Hwang MY, Jensen RA, Kawaguchi T, Kentistou KA, Kim YJ, Kleber ME,

Kooner IK, Lai S, Lange LA, Langefeld CD, Lauzon M, Li M, Ligthart S, Liu J, Loh M, Long J, Lyssenko V, Mangino M, Marzi C, Montasser ME, Nag A, Nakatuchi M, Noce D, Noordam R, Pistis G, Preuss M, Raffield R, RasmussenTorvik LJ, Rich SS, Robertson NR, Rueedi R, Ryan K, Sanna S, Saxena R, Schraut KE, Sennblad B, Setoh K, Smith AV, Southam L, Sparsø T, Strawbridge RJ, Takeuchi F, Tan J, Trompet S, van den Akker E, Van der Most PJ, Verweij N, Vogel M, Wang N, Wang H, Wang C, Wang N, Warren HR, Wen W, Wilsgaard T, Wong A, Wood AR, Xie T, Zafarmand MH, Zhao JH, Zhao W, Amin N, Arzumanyan Z, Astrup A, Bakker SJL, Baldassarre D, Beekman M, Bergman RN, Bertoni A, Blüher M, Bonnycastle LL, Bornstein SR, Bowden DW, Cai Q, Campbell A, Campbell H, Chang YC, de Geus EJC, Dehghan A, Du S, Ririksdottir G, Farmaki AE, Fränberg M, Fuchsberger C, Gao Y, Gjesing AP, Goel A, Han S, Hartman CA, Herder C, Hicks AA, Hsieh CH, Hsueh WA, Ichihara S, Igase M, Ikram MA, Johnson WC, Jørgensen ME, Joshi PK, Kalyani RR, Kandeel FR, Katsuya T, Khor CC, Kiess W, Kolcic I, Kuulasmaa T, Kuusisto J, Läll K, Lam K, Lee NR, Lemaitre RN, Li H, Lifelines Cohort Study, Lin SY, Lindström J, Linneberg A, Liu J, Lorenzo C, Matsubara T, Matsuda F, Mingrone G, Mooijaart S, Moon S, Nabika T, Nadkarni GN, Nadler JL, Nelis M, Neville MJ, Morris JM, Ohyagi Y, Peters A, Peyser PA, Polasek O, Qi Q, Raven D, Reilly DF, Reiner A, Rivideneira F, Roll K, Rudan I, Sabanayagam C, Sandow K, Sattar N, Schürmann A, Shi J, Stringham HM, Taylor KD, Teslovich TM, Thuesen B, Timmers PRHJ, Tremoli E, Tsai M, Uitterlinden A, van Dam RM, van Heemst D, van Hylckama Vlieg A, Van Vliet-Ostaptchouk JV, Vangipurapu J, Vestergaard H, Wang T, van Dijk KW, Zemunik T, Abecasis GR, Adair LS, Aguilar-Salinas CA, Alarcón-Riquelme ME, An P, Aviles-Santa L, Becker DM, Beilin LJ, Bergmann S, Bisgaard H, Black C, Boehnke M, Boerwinkle E, Böhm BO, Bønnelykke K, Boomsma DI, Bottinger EP, Buchanan TA, Canouil M, Caulfield MJ, Chambers JC, Chasman DI, Chen YDI, Cheng CY, Collins FC, Correa A, Cucca F, de Silva J, Dedoussis G, Elmståhl S, Evans MK, Ferruci L, Florez JC, Franks P, Frayling TM, Froguel P, Gigante B, Goodarzi MO, Gordon-Larsen P, Grallert H, Grarup N, Grimsgaard S, Groop L, Gudnason V, Guo X, Hamsten A, Hansen T, Hayward C, Heckbert SR, Horta BL, Huang W, Ingelsson E, James PS, Jonas JB, Jukema JW, Kaleebu P, Kaplan R, Kardia SLR, Kato N, Keinanen-Kiukaanniemi SM, Kim BJ, Kivimaki M, Koistinen HA, Kooner JS, Körner A, Kovacs P, Kuh D, Kumari M, Kutilik Z, Laakso M, Lakka TA, Launer LJ, Leander K, Li H, Lin X, Lind L, Lindgren C, Liu S, Loos RJF, Luigi F, Magnusson P, Mahajan A, Melzer D, Metspalu A, Mook-Kanamori DO, Mori TA, Munroe PB, Njølstad I, O'Connell JR, Oldehinkel AJ, Ong KK, Padmanabhan S, Palmer CAN, Palmer ND, Pedersen O, Pennell CE, Porteous DJ, Pramstaller PP, Province MA, Psaty BM, Qi L, Raffel LJ, Rauramaa R, Redline S, Ridker PM, Rosendaal FR, Saaristo TE, Sandhu M, Saramies J, Schneiderman N, Schwarz P, Scott LJ, Selvin E, Sever P, Shu X, Slagboom PE, Small KS, Smith BH, Sneider H, Sofer T, Sørensen TIA, Spector TD, Stanton A, Steves CJ, Stumvoll M, Su L, Tabara Y, Tai ES, Timpson NJ, Tönjes A, Tuomilehto J, Tusie T, Uusitupa M, van der Harst P, van Duijn C, Vitart V, Vollenweider P, Vrijkotte TGM, Wagenknecht LE, Walker M, Wang YX, Wareham NJ, Watanabe RM, Watkins H, Wei WB, Wickremasinghe AR, Willemse G, Wilson JF, Wong TY, Wu JY, Xiang AH, Yanek LR, Yengo L, Yokota M, Zeggini E, Zheng W, Zonderman AB, Rotter J, Gloyn AL, McCarthy MI, Dupuis J, Meigs JB, Scott RA, Prokopenko I, Leong A, Liu CT, Parker SCJ, Mohlke KL, Langenberg C, Wheeler E, Morris AP, Barroso I; Meta-Analysis of Glucose and Insulin-related Traits Consortium (MAGIC). The trans-ancestral genomic architecture of glycemic traits. **Nat Genet** **2021**;53:840-860. doi: 10.1038/s41588-021-00852-9.

331. Korhonen M, Väistö J, Veijalainen A, Leppänen M, Ekelund U, Laukkonen JA, Brage S, Lintu N, Haapala EA, Lakka TA. Longitudinal associations of physical activity, sedentary time, and cardiorespiratory fitness with arterial health in children - the PANIC study. **J Sports Sci**

2021;39:1980-1987. doi: 10.1080/02640414.2021.1912450.

332. Wang H, Noordam R, Cade BE, Schwander K, Winkler TW, Lee J, Sung YJ, Bentley AR, Manning AK, Aschard H, Kilpeläinen TO, Ilkov M, Brown MR, Horimoto AR, Richard M, Bartz TM, Vojinovic D, Lim E, Nierenberg JL, Liu Y, Chitrala K, Rankinen T, Musani SK, Franceschini N, Rauramaa R, Alver M, Zee PC, Harris SE, van der Most PJ, Nolte IM, Munroe PB, Palmer ND, Kühnel B, Weiss S, Wen W, Hall KA, Lyytikäinen LP, O'Connell J, Eiriksdottir G, Launer LJ, de Vries PS, Arking DE, Chen H, Boerwinkle E, Krieger JE, Schreiner PJ, Sidney S, Shikany JM, Rice K, Chen YI, Gharib SA, Bis JC, Luik AI, Ikram MA, Uitterlinden AG, Amin N, Xu H, Levy D, He J, Lohman KK, Zonderman AB, Rice TK, Sims M, Wilson G, Sofer T, Rich SS, Palmas W, Yao J, Guo X, Rotter JI, Biermasz NR, Mook-Kanamori DO, Martin LW, Barac A, Wallace RB, Gottlieb DJ, Komulainen P, Heikkinen S, Mägi R, Milani L, Metspalu A, Starr JM, Milaneschi Y, Waken RJ, Gao C, Waldenberger M, Peters A, Strauch K, Meitinger T, Roenneberg T, Völker U, Dörr M, Shu XO, Mukherjee S, Hillman DR, Kähönen M, Wagenknecht LE, Gieger C, Grabe HJ, Zheng W, Palmer LJ, Lehtimäki T, Gudnason V, Morrison AC, Pereira AC, Fornage M, Psaty BM, van Duijn CM, Liu CT, Kelly TN, Evans MK, Bouchard C, Fox ER, Kooperberg C, Zhu X, Lakka TA, Esko T, North KE, Deary IJ, Snieder H, Penninx BWJH, Gauderman WJ, Rao DC, Redline S, van Heemst D. Multi-ancestry genome-wide gene-sleep interactions identify novel loci for blood pressure. **Mol Psychiatry** 2021 (in press). doi: 10.1038/s41380-021-01087-0.
333. Constable AM, Porter JE, Benger D, Vlachopoulos D, Barker AR, Moore SA, Soininen S, Haapala EA, Westgate K, Brage S, Agostinete RR, Fernandes RA, Lakka TA. The positive relationship between moderate-to-vigorous physical activity and bone mineral content is not mediated by free leptin index in prepubertal children: The PANIC study. **Int J Environ Res Public Health** 2021;18(10):5365. doi: 10.3390/ijerph18105365.
334. Methuen M, Kauppinen S, Suominen AL, Eloranta AM, Väistö J, Lakka TA, Vähänikkilä H, Anttonen V. Dental caries among Finnish teenagers participating in physical activity and diet intervention: association with anthropometrics and behavioural factors. **BMC Oral Health** 2021;21(1):333. doi: 10.1186/s12903-021-01690-1.
335. Kuvaja-Köllner V, Lintu N, Lindi V, Rissanen E, Eloranta AM, Kiiskinen S, Martikainen J, Kankaanpää E, Valtonen H, Lakka TA. Cost-effectiveness of physical activity intervention in children - results based on the Physical Activity and Nutrition in Children (PANIC) study. **Int J Behav Nutr Phys Act** 2021;18(1):116. doi: 10.1186/s12966-021-01181-0.
336. Jalkanen K, Järvenpää R, Tilles-Tirkkonen T, Martikainen J, Aarnio E, Männikkö R, Rantala E, Karhunen L, Kolehmainen M, Harjumaa M, Poutanen K, Ermes M, Absetz P, Schwab U, Lakka TA, Pihlajamäki J, Lindström J; StopDia Study Group. Comparison of Communication Channels for Large-Scale Type 2 Diabetes Risk Screening and Intervention Recruitment: Empirical Study. **JMIR Diabetes** 2021;6(3):e21356. doi: 10.2196/21356.
337. Leppänen MH, Haapala EA, Väistö J, Ekelund U, Brage S, Kilpeläinen TO, Lakka TA. Longitudinal and cross-sectional associations of adherence to 24-hour movement guidelines with cardiometabolic risk. **Scand J Med Sci Sports** 2022;32(1):255-266. doi: 10.1111/sms.14081.
338. Sun D, Richard M, Musani SK, Sung YJ, Winkler TW, Schwander K, Chai JF, Guo X, Kilpeläinen TO, Vojinovic D, Aschard H, Bartz TM, Bielak LF, Brown MR, Chitrala K, Hartwig FP, Horimoto ARVR, Liu Y, Manning AK, Noordam R, Smith AV, Harris SE, Kühnel B, Lyytikäinen LP, Nolte IM, Rauramaa R, van der Most PJ, Wang R, Ware EB, Weiss S, Wen W, Yanek LR, Arking DE, Arnett DK, Barac A, Boerwinkle E, Broeckel U,

- Chakravarti A, Chen YI, Cupples LA, Davigulus ML, de Las Fuentes L, de Mutsert R, de Vries PS, Delaney JAC, Roux AVD, Dörr M, Faul JD, Fretts AM, Gallo LC, Grabe HJ, Gu CC, Harris TB, Hartman CCA, Heikkinen S, Ikram MA, Isasi C, Johnson WC, Jonas JB, Kaplan RC, Komulainen P, Krieger JE, Levy D; Lifelines Cohort Study, Liu J, Lohman K, Luik AI, Martin LW, Meitinger T, Milaneschi Y, O'Connell JR, Palmas WR, Peters A, Peyser PA, Pulkki-Råback L, Raffel LJ, Reiner AP, Rice K, Robinson JG, Rosendaal FR, Schmidt CO, Schreiner PJ, Schwettmann L, Shikany JM, Shu XO, Sidney S, Sims M, Smith JA, Sotoodehnia N, Strauch K, Tai ES, Taylor K, Uitterlinden AG, van Duijn CM, Waldenberger M, Wee HL, Wei WB, Wilson G, Xuan D, Yao J, Zeng D, Zhao W, Zhu X, Zonderman AB, Becker DM, Deary IJ, Gieger C, Lakka TA, Lehtimäki T, North KE, Oldehinkel AJ, Penninx BWJH, Snieder H, Wang YX, Weir DR, Zheng W, Evans MK, Gauderman WJ, Gudnason V, Horta BL, Liu CT, Mook-Kanamori DO, Morrison AC, Pereira AC, Psaty BM, Amin N, Fox ER, Kooperberg C, Sim X, Bierut L, Rotter JI, Kardia SLR, Franceschini N, Rao DC, Fornage M. Multi-Ancestry Genome-wide Association Study Accounting for Gene-Psychosocial Factor Interactions Identifies Novel Loci for Blood Pressure Traits. **HGG Adv** 2021;2(1):100013. doi: 10.1016/j.xhgg.2020.100013.
339. Aittola K, Karhunen L, Männikkö R, Järvelä-Reijonen E, Mikkonen S, Absetz P, Kolehmainen M, Schwab U, Harjumaa M, Lindström J, Lakka T, Tilles-Tirkkonen T, Pihlajamäki J. Enhanced eating competence is associated with improved diet quality and cardiometabolic profile in Finnish adults with increased risk of type 2 diabetes. **Nutrients** 2021;13(11):4030. doi: 10.3390/nu13114030.
340. Ronkainen J, Nedelec R, Atehortua A, Balkhiyarova Z, Cascarano A, Ngoc Dang V, Elhakeem A, van Enckevort E, Goncalves Soares A, Haakma S, Halonen M, Heil K, Heiskala A, Hyde E, Jacquemin B, Keikkala E, Kerckhoff J, Klåvus A, Kopinska JA, Lepeule J, Marazzi F, Motoc I, Näätänen M, Ribbenstedt A, Rundblad A, Savolainen O, Simonetti V, de Toro Eadie N, Tzala E, Ulrich A, Wright T, Zarei I, d'Amico E, Belotti F, Brunius C, Castleton C, Charles MA, Gaillard R, Hanhineva K, Hoek G, Holven KB, Jaddoe VWV, Kaakinen M, Kajantie E, Kavousi M, Lakka T, Matthews J, Piano Mortari A, Vääräsmäki M, Voortman T, Webster C, Zins M, Atella V, Bulgheroni M, Chadeau-Hyam M, Conti G, Evans J, Felix JF, Heude B, Järvelin MR, Kolehmainen M, Landberg R, Lekadir K, Parusso S, Prokopenko I, de Rooij SR, Roseboom T, Swertz M, Timpson N, Ulven SM, Vermeulen R, Juola T, Sebert S. LongITools: Dynamic longitudinal exposome trajectories in cardiovascular and metabolic non-communicable diseases. **Environ Epidemiol** 2022;6(1):e184. doi: 10.1097/EE9.0000000000000184.
341. Methuen M, Kangasmaa H, Alaraudanjoki V, Suominen AL, Anttonen V, Vähänikkilä H, Karjalainen P, Lakka T, Laitala ML. Erosive tooth wear and associated factors in Finnish adolescents. **Caries Research** 2021 (in press).
342. Lavikainen P, Mattila EM, Absetz P, Harjumaa M, Linström J, Järvelä-Reijonen E, Aittola K, Männikkö R, Tilles-Tirkkonen T, Lintu N, Lakka T, van Gils M, Pihlajamäki J, Martikainen J. Digitally supported lifestyle intervention to prevent type 2 diabetes through healthy habits: secondary analysis of long-term user engagement trajectories in a randomized controlled trial. **J Med Internet Res** 2021 (in press).
343. Halali F, Lapveteläinen A, Aittola K, Männikkö R, Tilles-Tirkkonen T, Järvelä-Reijonen E, Absetz P, Kolehmainen M, Schwab U, Lindström J, Lakka T, Pihlajamäki J, Karhunen L. Associations between weight loss history and factors related to type 2 diabetes risk in the Stop Diabetes study. **Int J Obes** 2021 (in press).

Publications intended for professional communities (selected publications)

1. Rauramaa R, Lakka TA. Liikunta ja sepelvaltimotauti. **Duodecim** 2001;117:633-638.
2. Salonen JT, Nyysönen K, Salonen R, Lakka H-M, Kaikkonen J, Porkkala-Sarataho E, Voutilainen S, Lakka TA, Rissanen T, Leskinen L, Tuomainen T-P, Valkonen V-P, Ristonmaa U, Poulsen HE. Kolmevuotisen C- ja E-vitamiinilisän vaikutus kaulavaltimoateroskleroosiin: Antioxidant Supplementation in Atherosclerosis Prevention (ASAP) -tutkimus. **Suomen Lääkärilehti** 2001;6:395-400.
3. Lakka TA, Rauramaa R. Säännöllisellä liikunnalla voidaan tehokkaasti ehkäistä ja hoitaa sepelvaltimotautia. **Dosis** 2001;3.
4. Lakka H-M, Laaksonen DE, Lakka TA, Niskanen LK, Kumpusalo E, Tuomilehto J, Salonen JT. Metabolinen oireyhtymä lisää sydän- ja verisuonitauti- ja kokonaiskuolleisuutta. **Duodecim** 2003.
5. Lakka TA. Liikunnan terveysvaikutukset välittyyvät osittain geenien kautta. **Duodecim** 2006;122:2939-2941 (pääkirjoitus).
6. Laaksonen DE, Lakka TA. Liikunta diabeteksen ehkäisyssä ja hoidossa. **Diabetes ja lääkäri** 2007.
7. Kiiskinen S, Schwab U, Kalinkin U, Lindi V, Tompuri T, Lakka H-M, Lakka TA. Lasten ruokavaliossa on huolestuttavia piirteitä. **Suomen lääkärilehti** 2009;3:144-145.
8. Valtonen M, Heinonen Olli J, Lakka Timo A, Tammelin T. Lapsuuden liikunnan merkitys - kardiometabolinen näkökulma. **Duodecim** 2013;129:1153-1158.
9. Sääkslahti A, Muuronen K, Haapala E, Pulakka A, Haapala H, Lakka TA, Laukanen A, Määttä S, Reunamo J, Roos E, Soini A, Mäki P, Iivonen S, Asunta P, Virolainen H, Ahonen T, Rintala P, Cantell M, Kyhälä A-L. Tieteelliset perusteet varhaisvuosien fyysisen aktiivisuuden suosituksille. **Opetus- ja kulttuuriministeriön julkaisuja** 2016:22.
<http://urn.fi/URN:ISBN:978-952-263-411-5>.
10. Mäki-Opas T, Tilles-Tirkkonen T, Saari E, Järvenpää R, Lindström J, Karhunen L, Kurki M, Pihlajamäki J, Niemi AM, Laaksonen LM, Korkiakangas E, Lakka T, Vaarama M, Laitinen J. Hyvinvoinnin ja osallisuuden edistäminen vaatii uusia vaikuttavia keinoja. Policy Brief. **Suomen Akatemia, Strateginen Tutkimus** 2019. <https://www.ttl.fi/wp-content/uploads/2019/03/Hyvinvoinnin-edist%C3%A4minen-Policy-brief.pdf>
11. Lakka TA, Talvia S, Sääkslahti A, Haapala E. Fyysisen aktiivisuus ja ravitsemus lasten terveyden edistämisessä – tavoitteena lihavuuden, tyypin 2 diabeteksen ja valtimotautien ehkäisy. Kirjassa Pietilä AM & Terkamo-Moisio A (toim.). Näkökulmia terveyteen ja sen edistämiseen. **Itä-Suomen yliopiston julkaisusarja**. 2019;26:133-166.
12. Rantala E, Martikainen J, Lakka T, Vanhatalo S, Heiskanen J, Väistö J, Leväluoto J, Hassinen M, Eloranta AM, Sigfrids A, Harjumaa M. Suomalaisen lasten ja nuorten ruokaympäristö ja toimenpide-ehdotukset sen kehittämiseen terveytä edistäväksi. Valtioneuvoston selvitys- ja tutkimustoiminnan julkaisuja 2020:19. <http://urn.fi/URN:ISBN:978-952-287-929-5>
13. Tilles-Tirkkonen T, Männikkö R, Lindström J, Harjumaa M, Aittola K, Järvelä-Reijonen E, Rantala E, Martikainen J, Lakka T, Pihlajamäki J. StopDia-hankkeesta vinkkejä terveyden edistämiseen ja hyte-johtamiseen. **Ravitsemusasiantuntija** 2020;6:4-7.

14. Sajjonkari M, Paronen E, Lakka T, Tolmunen T, Linnosmaa I, Lammintakanen J, Mäki-Opas T. Hyvällä mielellä Pohjois-Savo -hankkeen esiselvitys: toimenpide-ehdotus ja vaikuttavuuden arviointisuunnitelma. **Itä-Suomen yliopiston julkaisusarja 2021;36.**
<http://urn.fi/URN:ISBN:978-952-61-3754-4>.

Doctoral thesis

Lakka TA. Leisure time physical activity, cardiorespiratory fitness, biological coronary risk factors and coronary heart disease. A population study in men in Eastern Finland. Academic Dissertation. Kuopio University publications D. Medical Sciences 42. 1994.