EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

Curriculum Vitae

Personal information

Tiinamaija Tuomi

Work experience

- Chief Physician (60%), Helsinki University Hospital, Finland, since 1/2010
- Principal Investigator (25%), Folkhälsan Research Center, Finland, since 1/2001
- Research director (15%), Institute for Molecular Medicine Finland (FIMM), University of Helsinki, Finland, since 1/2018
- Vice director, Center of Excellence in Complex Disease Genetics, Academy of Finland and University of Helsinki, Finland 1/2018-12/2025
- Professor (adjungerad) in internal medicine, Lund University, Sweden, since7/2019☐
- Principal investigator of the Botnia Study, since 1/1999
- Principal investigator, of the Vaasa Diabetes register (DIREVA), since 2017
- Principal Investigator, Research Programs of University of Helsinki since 2001; current program Research Program for Clinical and Molecular Metabolism (CAMM) 2019 - 2025

Professional Experience:
- Clinical teacher, University of Helsinki, Finland 1.8.2006 – 31.12.2009
- Senior Research Fellow, The Academy of Finland 1.8.2001 – 31.7.2006
- Clinical teacher, University of Helsinki, Finland 1.9.2000 – 31.7.2001
- Resident in Endocrinology, Helsinki University Central Hospital, Finland 1.1.1999 – 30.8.2000
- Lecturer (Universitetslärare), Dept. of Endocrinology, Lund University, Sweden 1.1.1998 – 31.12.1998
- Vice Chief of Laboratory, Diabetes and Endocrine Research Laboratory, Lund University, Sweden 1.9.1994 – 31.12.1998
- Clinical teacher, Dept. of Endocrinology, Lund University, Sweden 1.9.1994 – 31.12.1997
- Resident in Internal Medicine, Helsinki University Central Hospital, Finland 1.2.1993 – 31.8.1994
- Postdoc Fellow, Centre for Molecular Biology and Medicine, Monash University, Clayton (Melbourne), Australia 1.1.1992–30.1.1993
- Resident in Internal Medicine, Helsinki University Central Hospital, Finland 1.6.1990 – 31.12.1991

Education and training

Degrees:
- Licentiate (1988) and Doctor of medicine (MD/ PhD) (1990), University of Helsinki, Finland
- Specialist in internal medicine (1997) and endocrinology (2000), University of Helsinki, Finland
- Special competence in diabetes care (2006), The Finnish Medical Association

Lecturer (Docent):
- General Internal Medicine 1998, Lund University, Swede
- Experimental Internal Medicine (1999) and Internal Medicine (2006), University of Helsinki, Finland

Additional information

Publications

237 Reeve M, Kanai M, Graham D, Karjalainen J, Luo S, Kolosov N, Adams C, Ritari J, Karczewski K, Kiiskinen T, Fuller Z, Mehtonen J, Kurki M, Khan Z, Partanen J, McCarthy M, Artomov M, Tuomi T, Pirinen M, Kero J, Xavier R, Daly M, Ripatti S, Gen F. Autoimmune hypothyroidism GWAS reveals independent autoimmune and thyroid-specific contributions and an inverse relation with cancer risk. Res Sq [Preprint]. 2024 Jul 8:rs.3.rs-4626646. doi: 10.21203/rs.3.rs-4626646/v1. PREPRINT.

236. Wang F, Liu A, Yang Z, Vartiainen P, Jukarainen S, Koskela S, Oram R, Allen L, Ritari J, Partanen J; FinnGen; Perola M, Tuomi T, Ganna A. Effects of parental autoimmune diseases on type 1 diabetes in offspring can be partially explained by HLA and non-HLA polymorphisms. Cell Genom. 2025 Jun 11;5(6):100854. doi: 10.1016/j.xgen.2025.100854.

235. Amadou C, Wei Y, Tuomi T, Feychting M, Carlsson S. Fetal programming of early-onset type 2 diabetes: a Swedish nationwide cohort and sibling analysis. Eur J Epidemiol. 2025 Jun 24. doi: 10.1007/s10654-025-01261-6. Epub ahead of print.

234. Wei Y, Andersson T, Tuomi T, Nyström T, Carlsson S. Adult-onset type 1 diabetes: predictors of major cardiovascular events and mortality. Eur Heart J. 2025 May 14:ehaf304. doi: 10.1093/eurheartj/ehaf304. Epub ahead of print.

233. Madsen AL, Bonàs-Guarch S, Gheibi S, Prasad R, Vangipurapu J, Ahuja V, Cataldo LR, Dwivedi O, Hatem G, Atla G, Guindo-Martínez M, Jørgensen AM, Jonsson AE, Miguel-Escalada I, Hassan S, Linneberg A, Ahluwalia TS, Drivsholm T, Pedersen O, Sørensen TIA, Astrup A, Witte D, Damm P, Clausen TD, Mathiesen E, Pers TH, Loos RJF, Hakaste L, Fex M, Grarup N, Tuomi T, Laakso M, Mulder H, Ferrer J, Hansen T. Genetic architecture of oral glucose-stimulated insulin release provides biological insights into type 2 diabetes aetiology. Nat Metab. 2024 Oct;6(10):1897-1912. doi: 10.1038/s42255-024-01140-6.

232. Edstorp J, Rossides M, Ahlqvist E, Alfredsson L, Askling J, Di Giuseppe D, Grill V, Sorgjerd EP, Tuomi T, Åsvold BO, Carlsson S. Exposure to antibiotics and risk of latent autoimmune diabetes in adults and type 2 diabetes: results from a Swedish case-control study (ESTRID) and the Norwegian HUNT study. Diabetologia. 2024 Oct 28. doi: 10.1007/s00125-024-06302-5.

231. Santoso C, Wei Y, Ahlqvist E, Tuomi T, Carlsson S. Autoimmune diseases and the risk and prognosis of latent autoimmune diabetes in adults. Diabetologia. 2024 Oct 28. doi: 10.1007/s00125-024-06303-4.

230. Wei Y, Hägg S, Mak JKL, Tuomi T, Zhan Y, Carlsson S. Metabolic profiling of smoking, associations with type 2 diabetes and interaction with genetic susceptibility. Eur J Epidemiol. 2024 Jun;39(6):667-678.

229. Ibrahim H, Balboa D, Saarimäki-Vire J, Montaser H, Dyachok O, Lund P-E, Omar-Hmeadi M, KvistJ, Dwivedi OP, Lithovius V, Barsby T, Chandra V, Eurola S, Ustinov J, Tuomi T, Miettinen PJ, Barg S, Tengholm T, Otonkoski T. RFX6 haploinsufficiency predisposes to diabetes through impaired beta cell functionality. Diabetologia. 2024 Aug;67(8):1642-1662.

228. Karhiaho IP*, Kurki SH*, Parviainen HI, Kullamaa L, Färkkilä M, Matikainen N#, Tuomi T#. The hidden epidemic: Uncovering Incidental Fatty Liver Disease and its Metabolic Comorbidities by Datamining in a Hospital Data Lake – a Real-world Cohort Study. Diabetes Res Clin Pract. 2024 Apr;210:111609. *# shared contribution

227. Loginovic* P, Wang F*, Li J*, Ferrat L, Mirshahi UL, Rao HS, Petzold A, Tyrrell J, Green HD, Weedon MN, Ganna A, Tuomi T, Carey DJ, Oram RA, Braithwaite T, FinnGen, The UKBB Eye & Vision Consortium. Applying a genetic risk score model to enhance prediction of future multiple sclerosis diagnosis at first presentation with optic neuritis. Nat Commun. 2024 Feb 28;15(1):1415. *shared contribution

226. Edstorp J, Rossides M, Ahlqvist E, Rasouli B, Tuomi T, Carlsson S. Does a prior diagnosis of infectious disease confer an increased risk of latent autoimmune diabetes in adults? Diabetes Metab Res Rev. 2024 Mar;40(3):e3758.

225. Breitfeld J, Horn K, Le Duc D, Velluva A, Marzi C, Grallert H, Friedrich N, Pietzner M, Völker U, Völzke H, Ahlqvist E, Aly DM, Tuomi T, Baber R, Kratzsch J, Thiery J, Isermann B, Loeffler M, Klöting N, Blüher M, Stumvoll M, Heiker JT, Tönjes A, Scholz M, Kovacs P. Genetic dissection of serum vaspin highlights its causal role in lipid metabolism. Obesity (Silver Spring). 2023

Nov;31(11):2862-2874.
224. Nethander M, Movérare-Skrtic S, Kämpe A, Coward E, Reimann E, Grahnemo L, Borbély É, Helyes Z, Funck-Brentano T, Cohen-Solal M, Tuukkanen J, Koskela A, Wu J, Li L, Lu T, Gabrielsen ME; Estonian Biobank Research Team; Mägi R, Hoff M, Lerner UH, Henning P, Ullum H, Erikstrup C, Brunak S; DBDS Genomic Consortium; Langhammer A, Tuomi T, Oddsson A, Stefansson K, Pettersson-Kymmer U, Ostrowski SR, Pedersen OBV, Styrkarsdottir U, Mäkitie O, Hveem K, Richards JB, Ohlsson C. An atlas of genetic determinants of forearm fracture. Nat Genet. 2023 Nov;55(11):1820-1830.
223. Tobias DK, Merino J, Ahmad A, Aiken C, Benham JL, Bodhini D, Clark AL, Colclough K, Corcoy R, Cromer SJ, Duan D, Felton JL, Francis EC, Gillard P, Gingras V, Gaillard R, Haider E, Hughes A, Ikle JM, Jacobsen LM, Kahkoska AR, Kettunen JLT, Kreienkamp RJ, Lim LL, Männistö JME, Massey R, Mclennan NM, Miller RG, Morieri ML, Most J, Naylor RN, Ozkan B, Patel KA, Pilla SJ, Prystupa K, Raghavan S, Rooney MR, Schön M, Semnani-Azad Z, Sevilla-Gonzalez M, Svalastoga P, Takele WW, Tam CH, Thuesen ACB, Tosur M, Wallace AS, Wang CC, Wong JJ, Yamamoto JM, Young K, Amouyal C, Andersen MK, Bonham MP, Chen M, Cheng F, Chikowore T, Chivers SC, Clemmensen C, Dabelea D, Dawed AY, Deutsch AJ, Dickens LT, DiMeglio LA, Dudenhöffer-Pfeifer M, Evans-Molina C, Fernández-Balsells MM, Fitipaldi H, Fitzpatrick SL, Gitelman SE, Goodarzi MO, Grieger JA, Guasch-Ferré M, Habibi N, Hansen T, Huang C, Harris-Kawano A, Ismail HM, Hoag B, Johnson RK, Jones AG, Koivula RW, Leong A, Leung GKW, Libman IM, Liu K, Long SA, Lowe WL Jr, Morton RW, Motala AA, Onengut-Gumuscu S, Pankow JS, Pathirana M, Pazmino S, Perez D, Petrie JR, Powe CE, Quinteros A, Jain R, Ray D, Ried-Larsen M, Saeed Z, Santhakumar V, Kanbour S, Sarkar S, Monaco GSF, Scholtens DM, h Selvin E, Huey-Herng Sheu W, Speake C, Stanislawski MA, Steenackers N, Steck AK, Stefan N, Støy J, Taylor R, Cin Tye S, Ukke GG, Urazbayeva M, Van der Schueren B, Vatier C, Wentworth JM , Hannah W, White SL, Yu G, Zhang Y, Zhou SJ, Beltrand J, Polak M, Aukrust I, de Franco E, Flanagan SE, Maloney KA, McGovern A, Molnes J, Nakabuye M, Rasmus Njølstad P, Pomares-Millan H, Provenzano M, Saint-Martin C, Zhang C, Zhu Y, Auh S, de Souza R, Fawcett AJ, Gruber C, Mekonnen EG, Mixter E, Sherifali D, Eckel RH, Nolan JJ, Philipson LH, Brown RJ, Billings LK, Boyle K, Costacou T, Dennis JM, Florez JC, Gloyn AL, Gomez MF, Gottlieb PA, Greeley SAW, Griffin K, Hattersley AT, Hirsch IB, Hivert M-F, Hood KK, Josefson JL, Kwak SH, Laffel LM, Lim SS, Loos RJF, Ma RCW, Mathieu C, Mathioudakis N, Meigs JB, Misra S, Mohan V, Murphy R, Oram R, Owen KR, Ozanne SE, Pearson ER, Perng W, Pollin TI, Pop-Busui R, Pratley RE, Redman LM, Redondo MJ, Reynolds RM, Semple RK, Sherr JL, Sims EK, Sweeting A, Tuomi T, Udler MS, Vesco KK, Vilsbøll T, Wagner R, Rich SS, Franks PW. Second international consensus report on gaps and opportunities for the clinical translation of precision diabetes medicine. Nat Med. 2023 Oct;29(10):2438-2457.
222. Wei Y, Herzog K, Ahlqvist E, Andersson T, Nyström T, Zhan Y, Tuomi T, Carlsson S. All-cause mortality, cardiovascular and microvascular diseases in latent autoimmune diabetes in adults. Diabetes Care 2023 Oct 1;46(10):1857-1865.
221. Barreiro K, Dwivedi OP, Rannikko A, Holthöfer H, Tuomi T, Groop P.-H, Puhka M. Capturing the Kidney Transcriptome by Urinary Extracellular Vesicles—From Pre-Analytical Obstacles to Biomarker Research. Genes (Basel). 2023 Jul 8;14(7):1415. doi: 10.3390/genes14071415.
220. Lampousi A-M, Löfvenborg JE, Ahlqvist E, Tuomi T, Wolk A, Carlsson S. Antioxidant nutrients and risk of LADA and type 2 diabetes: a Swedish case-control study and Mendelian randomization analysis. Nutrients 2023; 15(11):2546.
219. Harsunen M, Haukka J, Harjutsalo V, Mars N, Syreeni A, Härkönen T, Käräjämäki A, Ilonen J, Knip M, Sandholm N, Miettinen PJ, Groop P-H, Tuomi T. Residual insulin secretion in individuals with type 1 diabetes in Finland: longitudinal and cross-sectional analyses. Lancet Diab Endocrinol 2023; 11(7): 465-473.
218. Dwivedi OM, Barreiro K, Käräjämäki A, Valo E, Giri AK, Prasad RB, Roy RD, Thorn LM, Rannikko A, Holthöfer H, Gooding KM, Sourbron S, Delic D, Gomez MF, Groop P-H, Tuomi T, Forsblom C, Groop L, Puhka M. Genome-wide mRNA profiling in urinary extracellular vesicles reveals stress gene

signature for diabetic kidney disease. iSCIENCE 2023; 26(5): 106686.
217. Williamson A, Norris DM, Yin X, Broadaway KA, Moxley AH, Vadlamudi S, Wilson EP, Jackson AU, Ahuja V, Andersen MK, Arzumanyan Z, Bonnycastle LL, Bornstein SR, Bretschneider MP, Buchanan TA, Chang YC, Chuang LM, Chung RH, Clausen TD, Damm P, Delgado GE, de Mello VD, Dupuis J, Dwivedi OP, Erdos MR, Fernandes Silva L, Frayling TM, Gieger C, Goodarzi MO, Guo X, Gustafsson S, Hakaste L, Hammar U, Hatem G, Herrmann S, Højlund K, Horn K, Hsueh WA, Hung YJ, Hwu CM, Jonsson A, Kårhus LL, Kleber ME, Kovacs P, Lakka TA, Lauzon M, Lee IT, Lindgren CM, Lindström J, Linneberg A, Liu CT, Luan J, Aly DM, Mathiesen E, Moissl AP, Morris AP, Narisu N, Perakakis N, Peters A, Prasad RB, Rodionov RN, Roll K, Rundsten CF, Sarnowski C, Savonen K, Scholz M, Sharma S, Stinson SE, Suleman S, Tan J, Taylor KD, Uusitupa M, Vistisen D, Witte DR, Walther R, Wu P, Xiang AH, Zethelius B; Meta-Analysis of Glucose and Insulin-related Traits Consortium (MAGIC); Ahlqvist E, Bergman RN, Chen YI, Collins FS, Fall T, Florez JC, Fritsche A, Grallert H, Groop L, Hansen T, Koistinen HA, Komulainen P, Laakso M, Lind L, Loeffler M, März W, Meigs JB, Raffel LJ, Rauramaa R, Rotter JI, Schwarz PEH, Stumvoll M, Sundström J, Tönjes A, Tuomi T, Tuomilehto J, Wagner R, Barroso I, Walker M, Grarup N, Boehnke M, Wareham NJ, Mohlke KL, Wheeler E, O'Rahilly S, Fazakerley DJ, Langenberg C. Genome-wide association study and functional characterization identifies candidate genes for insulin-stimulated glucose uptake. Nat Genet. 2023 Jun;55(6):973-983.
216. Edstorp J, Ahlqvist E, Alfredsson L, Mansour Aly D, Grill V, Rasouli B, Sørgjerd EP, Tuomi T, Åsvold BO, Carlsson S. Incidence of LADA and Type 2 Diabetes in Relation to Tobacco Use and Genetic Susceptibility to Type 2 Diabetes and Related Traits: Findings From a Swedish Case-Control Study and the Norwegian HUNT Study. Diabetes Care. 2023 May 1;46(5):1028-1036. doi: 10.2337/dc22-2284.
215. Kurki MI, Karjalainen J, Palta P, Sipilä TP, Kristiansson K, Donner KM, Reeve MP, Laivuori H, Aavikko M, Kaunisto MA, Loukola A, Lahtela E, Mattsson H, Laiho P, Della Briotta Parolo P, Lehisto AA, Kanai M, Mars N, Rämö J, Kiiskinen T, Heyne HO, Veerapen K, Rüeger S, Lemmelä S, Zhou W, Ruotsalainen S, Pärn K, Hiekkalinna T, Koskelainen S, Paajanen T, Llorens V, Gracia-Tabuenca J, Siirtola H, Reis K, Elnahas AG, Sun B, Foley CN, Aalto-Setälä K, Alasoo K, Arvas M, Auro K, Biswas S, Bizaki-Vallaskangas A, Carpen O, Chen CY, Dada OA, Ding Z, Ehm MG, Eklund K, Färkkilä M, Finucane H, Ganna A, Ghazal A, Graham RR, Green EM, Hakanen A, Hautalahti M, Hedman ÅK, Hiltunen M, Hinttala R, Hovatta I, Hu X, Huertas-Vazquez A, Huilaja L, Hunkapiller J, Jacob H, Jensen JN, Joensuu H, John S, Julkunen V, Jung M, Junttila J, Kaarniranta K, Kähönen M, Kajanne R, Kallio L, Kälviäinen R, Kaprio J; FinnGen; Kerimov N, Kettunen J, Kilpeläinen E, Kilpi T, Klinger K, Kosma VM, Kuopio T, Kurra V, Laisk T, Laukkanen J, Lawless N, Liu A, Longerich S, Mägi R, Mäkelä J, Mäkitie A, Malarstig A, Mannermaa A, Maranville J, Matakidou A, Meretoja T, Mozaffari SV, Niemi MEK, Niemi M, Niiranen T, O Donnell CJ, Obeidat ME, Okafo G, Ollila HM, Palomäki A, Palotie T, Partanen J, Paul DS, Pelkonen M, Pendergrass RK, Petrovski S, Pitkäranta A, Platt A, Pulford D, Punkka E, Pussinen P, Raghavan N, Rahimov F, Rajpal D, Renaud NA, Riley-Gillis B, Rodosthenous R, Saarentaus E, Salminen A, Salminen E, Salomaa V, Schleutker J, Serpi R, Shen HY, Siegel R, Silander K, Siltanen S, Soini S, Soininen H, Sul JH, Tachmazidou I, Tasanen K, Tienari P, Toppila-Salmi S, Tukiainen T, Tuomi T, Turunen JA, Ulirsch JC, Vaura F, Virolainen P, Waring J, Waterworth D, Yang R, Nelis M, Reigo A, Metspalu A, Milani L, Esko T, Fox C, Havulinna AS, Perola M, Ripatti S, Jalanko A, Laitinen T, Mäkelä TP, Plenge R, McCarthy M, Runz H, Daly MJ, Palotie A. FinnGen provides genetic insights from a well-phenotyped isolated population. Nature. 2023 Jan;613(7944):508-518. (Correction: Nature. 2023 Mar;615(7952):E19).
214. Broadaway KA, Yin X, Williamson A, Parsons VA, Wilson EP, Moxley AH, Vadlamudi S, Varshney A, Jackson AU, Ahuja V, Bornstein SR, Corbin LJ, Delgado GE, Dwivedi OP, Silva LF, Frayling TM, Grallert H, Gustafsson S, Hakaste L, Hammar U, Herder C, Herrmann S, Højlund K, Hughes DA, Kleber ME, Lindgren CM, Liu CT, Luan J, Malmberg A, Moissl AP, Morris AP, Perakakis N, Peters A, Petrie JR, Roden M, Schwarz PEH, Sharma S, Silveira A, Strawbridge RJ, Tuomi T, Wood AR, Wu P, Zethelius B, Baldassarre D, Eriksson JG, Fall T, Florez JC, Fritsche A, Gigante B, Hamsten A, Kajantie E,

Laakso M, Lahti J, Lawlor DA, Lind L, März W, Meigs JB, Sundström J, Timpson NJ, Wagner R, Walker M, Wareham NJ, Watkins H, Barroso I, O'Rahilly S, Grarup N, Parker SC, Boehnke M, Langenberg C, Wheeler E, Mohlke KL. Loci for insulin processing and secretion provide insight into type 2 diabetes risk. Am J Hum Genet. 2023 Feb 2;110(2):284-299.
213. Leinonen JT, Mars N*, Lehtonen LE*, Ahola-Olli A*, Ruotsalainen S, Lehtimäki T, Kähönen M, Raitakari O, FinnGen, Piltonen T, Daly M, Tuomi T, Ripatti S, Pirinen M, Tukiainen T. Genetic analyses implicate complex links between adult testosterone levels and health and disease. Commun Med (Lond). 2023 Jan 18;3(1):4. *shared contribution
212. Kiiskinen T, Helkkula P, Krebs K, Karjalainen J, Saarentaus E, Mars N, Lehisto A, Zhou W, Cordioli M, Jukarainen S, Rämö JT, Mehtonen J, Veerapen K, Räsänen M, Ruotsalainen S, Maasha M, FinnGen, Niiranen T, Tuomi T, Salomaa V, Kurki M, Pirinen M, Palotie A, Daly M, Ganna A, Havulinna AS, Milani L, Ripatti S. A catalog of genetic predictors impacting lifelong medication usepatterns in hyperlipidemia, hypertension and type 2 diabetes. Nat Med. 2023 Jan;29(1):209-218.
211. Harsunen M, Kettunen JLT, Härkönen T. Dwivedi O, Lehtovirta M, Vähäsalo P, Veijola R, Ilonen J, Miettinen PJ, Knip M, Tuomi T. Identification of monogenic variants in more than ten percent of children without type 1 diabetes related autoantibodies at diagnosis in the Finnish Pediatric Diabetes Register. Diabetologia. 2023 Mar;66(3):438-449.
210. Hermann FM, Kjærgaard MF, Tiemann U , Jackson A , Olsen LR , Kraft M , Carlsson P-O, Elfving IM, Kettunen JLT, Tuomi T, Novak I, Semb H. Insulin hypersecretion is the primary defect in MODY3 pancreatic β cells. Cell Stem Cell. 2023 Jan 5;30(1):38-51.e8.
209. Edstorp J, Wei Y, Ahlqvist E, Alfredsson L, Grill V, Groop L, Rasouli B, Pettersen Sørgjerd E, Thorsby PM, Tuomi T, Åsvold BO, Carlsson S. Smoking, use of smokeless tobacco, HLA genotypes, and incidence of latent autoimmune diabetes in adults. Diabetologia. 2023 Jan;66(1):70-81.
208. Asplund O, Storm P, Chandra V, Hatem G, Ottosson-Laakso E, Mansour-Aly D, Krus U, Ibrahim H, Ahlqvist E, Tuomi T, Renstrom E, Korsgren O, Wierup N, Ibberson M, Solimena M, Marchetti P, Wollheim C, Artner I, Mulder H, Hansson O, Otonkoski T, Groop L, and Prasad R. Islet Gene View - a tool to facilitate islet research. Life Sci Alliance. 2022 Aug 10;5(12):e202201376.
207. Wei Y, Zhan Y, Löfvenborg JE, Tuomi T, Carlsson S. Birth weight, BMI in adulthood and latent autoimmune diabetes in adults: A Mendelian randomization study. Diabetologia. 2022 Sep;65(9):1510-1518.
206. Pervjakova N, Moen GH, Borges MC, Ferreira T, Cook JP, Allard C, Beaumont RN, Canouil M, Hatem G, Heiskala A, Joensuu A, Karhunen V, Kwak SH, Lin FTJ, Liu J, Rifas-Shiman S, Tam CH, Tam WH, Thorleifsson G, Andrew T, Auvinen J, Bhowmik B, Bonnefond A, Delahaye F, Demirkan A, Froguel P, Haller-Kikkatalo K, Hardardottir H, Hummel S, Hussain A, Kajantie E, Keikkala E, Khamis A, Lahti J, Lekva T, Mustaniemi S, Sommer C, Tagoma A, Tzala E, Uibo R, Vääräsmäki M, Villa PM, Birkeland KI, Bouchard L, Duijn CM, Finer S, Groop L, Hämäläinen E, Hayes GM, Hitman GA, Jang HC, Järvelin MR, Jenum AK, Laivuori H, Ma RC, Melander O, Oken E, Park KS, Perron P, Prasad RB, Qvigstad E, Sebert S, Stefansson K, Steinthorsdottir V, Tuomi T, Hivert MF, Franks PW, McCarthy MI, Lindgren CM, Freathy RM, Lawlor DA, Morris AP, Mägi R. Multi-ancestry genome-wide association study of gestational diabetes mellitus highlights genetic links with type 2 diabetes. Hum Mol Genet. 2022 Sep 29;31(19):3377-3391.
205. Widén E, Junna N, Ruotsalainen S, Surakka I, Mars N, Ripatti P, Partanen JJ, Aro J, Mustonen P, Tuomi T, Palotie A, Salomaa V, Kaprio J, Partanen J, Hotakainen K, Pöllänen P, Ripatti S. How Communicating Polygenic and Clinical Risk for Atherosclerotic Cardiovascular Disease Impacts Health Behavior: an Observational Follow-up Study. Circ Genom Precis Med. 2022 Apr;15(2):e003459.
204. Prasad RB, Asplund O, Shukla SR, Wagh R, Kunte P, Bhat D, Parikh M, Phatak S, Käräjämäki A, Datta A, Kakati S, Tuomi T, Saboo B, Ahlqvist E, Groop L, Yajnik CS. Subtypes of young type 2 diabetes in India reveal insulin deficiency as a major driver. Diabetologia. 2022 Jan;65(1):65-78. (Correction: Diabetologia. 2022 Jan;65(1):254).
203. Kettunen JLT, Rantala E, Dwivedi OP, Isomaa B, Sarelin L, Kokko P, Hakaste L, Miettinen PJ, Groop LC, Tuomi T. A multigenerational study on

phenotypic consequences of the most common causal variant of HNF1A-MODY. Diabetologia. 2022 Apr;65(4):632-643. (Correction: Diabetologia. 2022 May;65(5):912.)
202. Lessmark A, Hatem G, Kovacs G, Vitai M, Ahlqvist E, Tuomi T, Koranyi L, Groop L, Prasad RB. Lipid-Associated Variants near ANGPTL3 and LPL Show Parent-of-Origin Specific Effects on Blood Lipid Levels and Obesity. Genes (Basel). 2021 Dec 29;13(1):91.
201. Barreiro K, Dwivedi OP, Valkonen S, Groop P-H, Tuomi T, Holthofer H, Rannikko A, Yliperttula M, Siljander P, Laitinen S, Serkkola E, af Hällström T, Forsblom C, Groop L, Puhka M. Urinary extracellular vesicles: Assessment of pre-analytical variables and development of a quality control with focus on transcriptomic biomarker research. Journal of Extracellular Vesicles, 2021 Oct;10(12):e12158.
200. Marjonen H, Marttila M, Paajanen T, Vornanen M, Brunfeldt M, Joensuu A, Halmesvaara O, Aro K, Alanne-Kinnunen M, Jousilahti P, Borodulin K, Koskinen S, Tuomi T, Ilanne-Parikka P, Lindström J, Laine MK, Auro K, Kääriäinen H, Perola M, Kristiansson K. A web portal for communicating polygenic risk score results for health care use – the P5 Study. Front Genet. 2021 Oct 29;12:763159.
199. Mansour-Aly D, Dwivedi Prakash O, Prasad RB, Käräjämäki A, Hjort R, Thangam M, Åkerlund M, Mahajan A, Udler MS, Florez JC, McCarthy MI, Regeneron Genetics Center, Brosnan J, Melander O1, Carlsson S, Hansson O, Tuomi T, Groop L, Ahlqvist E. Genome-wide association analyses highlight etiological differences underlying newly defined subtypes of diabetes. Nature Genetics, 2021; 53:1534-1542.
198. Simonsen JR, Käräjämäki A, Antikainen AA, Toppila I, Ahlqvist E, Prasad R, Mansour-Aly D, Harjutsalo V, Järvinen A, Tuomi T, Groop L, Forsblom C, Groop P-H, Sandholm N, Markku Lehto M. Genetic factors affect the susceptibility to bacterial infections in diabetes. Sci Rep. 2021; 11:9464.
197. Goodrich JK, Singer-Berk M, Son R, Sveden A, Wood J, England E, Cole JB, Weisburd B, Watts N, Caulkins L, Dornbos P, Koesterer R, Zappala Z, Zhang H, Maloney KA, Dahl A, Aguilar-Salinas CA, Atzmon G, Barajas-Olmos F, Barzilai N, Blangero J, Boerwinkle E, Bonnycastle LL, Bottinger E, Bowden DW, Centeno-Cruz F, Chambers JC, Chami N, Chan E, Chan J, Cheng CY, Cho YS, Contreras-Cubas C, Córdova E, Correa A, DeFronzo RA, Duggirala R, Dupuis J, Garay-Sevilla ME, García-Ortiz H, Gieger C, Glaser B, González-Villalpando C, Gonzalez ME, Grarup N, Groop L, Gross M, Haiman C, Han S, Hanis CL, Hansen T, Heard-Costa NL, Henderson BE, Hernandez JMM, Hwang MY, Islas-Andrade S, Jørgensen ME, Kang HM, Kim BJ, Kim YJ, Koistinen HA, Kooner JS, Kuusisto J, Kwak SH, Laakso M, Lange L, Lee JY, Lee J, Lehman DM, Linneberg A, Liu J, Loos RJF, Lyssenko V, Ma RCW, Martínez-Hernández A, Meigs JB, Meitinger T, Mendoza-Caamal E, Mohlke KL, Morris AD, Morrison AC, Ng MCY, Nilsson PM, O'Donnell CJ, Orozco L, Palmer CNA, Park KS, Post WS, Pedersen O, Preuss M, Psaty BM, Reiner AP, Revilla-Monsalve C, Rich SS, Rotter JI, Saleheen D, Schurmann C, Sim X, Sladek R, Small KS, So WY, Spector TD, Strauch K, Strom TM, Tai ES, Tam CHT, Teo YY, Thameem F, Tomlinson B, Tracy RP, Tuomi T, Tuomilehto J, Tusié-Luna T, van Dam RM, Vasan RS, Wilson JG, Witte DR, Wong TY; AMP-T2D-GENES Consortia, Burtt NP, Zaitlen N, McCarthy MI, Boehnke M, Pollin TI, Flannick J, Mercader JM, O'Donnell-Luria A, Baxter S, Florez JC, MacArthur DG, Udler MS. Determinants of penetrance and variable expressivity in monogenic metabolic conditions across 77,184 exomes. Nat Commun. 2021 Jun 9;12(1):3505.
196. Herzog K, Ahlqvist E, Alfredsson L, Groop L, Hjort R, Löfvenborg JE, Tuomi T, Carlsson S. Combined lifestyle factors and the risk of LADA and type 2 diabetes - Results from a Swedish population-based case-control study. Diabetes Res Clin Pract. 2021 Apr;174:108760.
195. Ahuja V, Aronen P, Pramodkumar TA, Looker H, Chetrit A, Bloigu AH, Juutilainen A, Bianchi C, La Sala L, Anjana RM, Pradeepa R, Venkatesan U, Jebarani S, Baskar V, Fiorentino TV, Timpel P, DeFronzo RA, Ceriello A, Del Prato S, Abdul-Ghani M, Keinänen-Kiukaanniemi S, Dankner R, Bennett PH, Knowler WC, Schwarz P, Sesti G, Oka R, Mohan V, Groop L, Tuomilehto J, Ripatti S, Bergman M, Tuomi T. Accuracy of 1-Hour Plasma Glucose During the Oral Glucose Tolerance Test in Diagnosis of Type 2 Diabetes in Adults: A Meta-analysis. Diabetes Care 2021 Apr;44(4):1062-1069. (Correction: Diabetes Care. 2021 Jun;44(6):1457)
194. Lagou V, Mägi R, Hottenga J-J, 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, S-Y, 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, Vilmantas G, Kleber M, Silbernagel G, Meyer J, Muller-Nurasyid M, Ganna A, Sarin A-P, Yengo L, 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, Willemsen G, Kuusisto J, Laakso M, Dimitriou M, Hicks A, Rauramaa R, Bandinelli S, Thorand B, Liu YM, 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 M-J, 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, and Prokopenko I. Sex-dimorphic genetic effects and novel loci for fasting glucose and insulin variability. Nat Commun. 2021 Jan 5;12(1):24. (Correction: Nat Commun. 2021 Feb 8;12(1):995.)

193. Jujić A, Nilsson PM, Atabaki-Pasdar N, Dieden A, Tuomi T, Franks PW, Holst JJ, Sørensen Torekov S, Ravassa S, Díez J, Persson M, Ahlqvist E, Melander O, Gomez MF, Groop L, Magnusson M. Glucose-dependent insulinotropic peptide in the high normal range is associated with increased carotid intima-media thickness. Diabetes Care 2021 Jan; 44;1:224-230.

192. Löfvenborg JE, Ahlqvist E, Alfredsson L, Andersson T, Groop L, Tuomi T, Wolk A, Carlsson S. Consumption of red meat, genetic susceptibility, and risk of LADA and type 2 diabetes. Eur J Nutr. 2021 Mar;60(2):769-779.

191. Strausz S, Ruotsalainen S, Ollila H, Karjalainen J, Kiiskinen T, Reeve M, Kurki M, Mars N, Havulinna A, Luonsi E, Mansour AD, Ahlqvist E, Teder-Laving M, Palta P, Groop L, Mägi R, Mäkitie A, Salomaa V, Bachour A, Tuomi T, Palotie A, Palotie T, Ripatti S. Genetic analysis of obstructive sleep apnoea discovers a strong association with cardiometabolic health. Eur Respir J. 2021 May 6;57(5):2003091.

190. Wasenius NS, Isomaa BA, Östman B, Söderstöm J, Forsén B, Lahti K, Hakaste L, Eriksson JG, Groop L, Hansson O, Tuomi T. Low-cost exercise interventions improve long-term cardiometabolic health independently of a family history of type 2 diabetes: a randomized parallel group trial. BMJ Open Diabetes Res. Care 2020 Nov;8(2):e001377.

189. Hjort R, Ahlqvist E, Andersson T, Alfredsson L, Carlsson P-O, Grill V, Groop L, Martinell M, Sørgjerd EP, Tuomi T, Åsvold BO, Carlsson S. Physical activity, genetic susceptibility and the risk of latent autoimmune diabetes in adults and type 2 diabetes. JCEM 2020 Nov 1;105(11):dgaa549.

188. Jujić A, Atabaki-Pasdar N, Nilsson PM, Almgren P, Hakaste L, Tuomi T, Berglund LM, Franks PW, Holst JJ, Prasad RB, Sørensen Torekov S, Ravassa S, Díez J, Persson M, Melander O, Gomez MF, Groop L, Ahlqvist E, Magnusson M. Glucose-dependent insulinotropic peptide and risk of cardiovascular events and mortality – a prospective study. Diabetologia. 2020 May;63(5):1043-1054.

187. Mishra R, Åkerlund M, Cousminer DL, Ahlqvist E, Bradfield JP, Chesi A, Hodge KM, Guy VC, Brillon DJ, Pratley RE, Rickels MR, Vella A, Ovalle F, Harris RI, Melander O, Varvel S, Hakonarson H, Froguel P, Lonsdale JT, Mauricio D, Schloot NC, Khunti K, Greenbaum CJ, Yderstræde KB, Tuomi T,

Voight BF, Schwartz S, Boehm BO, Groop L, Leslie RD, Grant SFA. Genetic Discrimination Between LADA and Childhood-Onset Type 1 Diabetes Within the MHC. Diabetes Care. 2020 Feb;43(2):418-425.
186. Löfvenborg JE, Ahlqvist E, Alfredsson L, Andersson T, Dorkhan M, Groop L, Tuomi T, Wolk A, Carlsson S. Genotypes of HLA, TCF7L2, and FTO as potential modifiers of the association between sweetened beverage consumption and risk of LADA and type 2 diabetes. Eur J Nutr. 2020 Feb;59(1):127-135.
185. Dwivedi OP*, Lehtovirta M*, Hastoy B*, Chandra V, Kleiner S, Jain D, Richard A-M, Beer N, Krentz NAJ, Prasad RB, Hansson O, Ahlqvist E, Krus U, Artner I, Gomez D, Baras A, Abaitua F, Champon B, Payne AJ, Moralli D, Thomsen SK, Kramer P, Spiliotis I, Ramracheya R, Chabosseau P, Theodoulou A, Cheung R, van de Bunt M, Flannick J, Trombetta M, Bonora E, Wolheim CB, Sarelin L, Bonadonna RC, Rorsman P, Rutter GA, Davies B, Brosnan J, McCarthy MIM, Otonkoski T, Lagerstedt JO, Gromada J, Gloyn AL#, Tuomi T#, Groop LC#. Loss of ZnT8 function protects against diabetes by enhanced insulin secretion. Nat Genet. 2019 Nov;51(11):1596-1606. *#shared contribution
184. Hjort R, Löfvenborg JE, Ahlqvist E, Alfredsson L, Andersson T, Grill V, Groop L, Sørgjerd EP, Tuomi T, Åsvold BO, Carlsson S. Interaction between overweight and genotypes of HLA, TCF7L2, and FTO in relation to the risk of Latent Autoimmune Diabetes in Adults and type 2 diabetes. J Clin Endocrinol Metab. 2019 Oct 1;104(10):4815-4826.
183. Flannick J, Mercader JM, Fuchsberger C, Udler MS, Mahajan A, Wessel J, Teslovich TM, Caulkins L, Koesterer R, Barajas-Olmos F, Blackwell TW, Boerwinkle E, Brody JA, Centeno-Cruz1 F, Chen L, Chen S, Contreras-Cubas C, Córdova E, Correa A, Cortes M, DeFronzo RA, Dolan L, Drews KL, Elliott A, Floyd JS, Gabriel S, Garay-Sevilla ME, García-Ortiz H, Gross M, Han S, Hanks S, Heard-Costa NL, Jackson AU, Jørgensen ME, Kang HM, Kelsey M, Kim B-J, Koistinen HA, Kuusisto J, Leader JB, Linneberg A, Liu CT, Liu J, Lyssenko V, Manning AK, Marcketta A, Malacara-Hernandez JM, Martínez-Hernández A, Matsuo K, Mayer-Davis E, Mendoza-Caamal E, Mohlke KL, Morrison AC, Ndungu A, Ng MCY, O'Dushlaine C, Payne AJ, Pihoker C, Broad Genomics Platform, Post WS, Preuss M, Psaty BM, Vasan RS, Rayner NW, Reiner AP, Revilla-Monsalve C, Robertson NR, Santoro N, Schurmann C, So Wy, Soberón X, Stringham HM, Strom TM, Tam CHT, Thameem F, Tomlinson B, Torres JM, Tracy RP, van Dam RM, Vujkovic M, Wang S, Welch RP, Witte DR, Wong T-Y, Atzmon G, Barzilai N, Blangero J, Bonnycastle LL, Bowden DW, Chambers JC, Chan E, Cheng C-Y, Cho YS, Collins FS, de Vries PS, Duggirala R, Glaser B, Gonzalez C, Gonzalez ME, Groop L, Kooner JS, Kwak SH, Laakso M, Lehman DM, Nilsson P, Spector TD, Tai ES, Tuomi T, Tuomilehto J, Wilson JG, Aguilar-Salinas CA, Bottinger E, Burke B, Carey DJ, Chan J, Dupuis J, Frossard F, Heckbert SR, Hwang MY, Kim YJ, Kirchner HL, Lee J-Y, Lee J, Loos R, Ma RCW, Morris AD, O'Donnell CJ, Palmer CNA, Pankow J, Park KS, Rasheed A, Saleheen D, Sim X, Small KS, Teo YY, Haiman C, Hanis CL, Henderson BE, Orozco L, Luna TT, Dewey FE, Baras A, Gieger C, Meitinger T, Strauch K, Lange L, Grarup N, Hansen T, Pedersen O, Zeitler P, Dabelea D, Abecasis G, Bell GI, Cox NJ, Seielstad M, Sladek R, Meigs JB, Rich S, RotterJI, DiscovEHR Collaboration, CHARGE, LuCamp, ProDiGY, GoT2D, ESP, SIGMA-T2D, T2D-GENES, AMP-T2D3 GENES, Altshuler D, Bur NP, Scott LJ, Morris AP, Florez JC, McCarthy MI, Boehnke M. Exome sequencing of 20,791 type 2 diabetes cases and 24,440 controls. Nature. 2019 Jun;570(7759):71-76.
182. Haljas K, Hakaste L, Lahti J, Isomaa B, Groop L, Tuomi T, Raikkonen K. The associations of daylight and melatonin receptor 1B gene rs10830963 variant with glycemic traits: the prospective PPP-Botnia study. Ann Med. 2019 Feb;51(1):58-67.
181. Peddinti G, Bergman M, Tuomi T, Groop L. One hour post-OGTT glucose improves the early prediction of type 2 diabetes by clinical and metabolic markers. J Clin Endocrinol Metab 2019;104: 1131–1140.
180. Strausz S, Havulinna AS, Tuomi T, Bachour A, Groop L, Mäkitie A, Koskinen S, Salomaa V, Palotie A, Ripatti S, Palotie T. Obstructive sleep apnoea and the risk for coronary heart disease and type 2 diabetes: a longitudinal population-based study in Finland. BMJ Open. 2018 Oct 15;8(10):e022752.
179. Cousminer DL, Ahlqvist E, Mishra R, Andersen MK, Chesi A, Hawa MI, Davis A, Hodge KM, Bradfield JP, Zhou K, Guy VC, Åkerlund M, Wod M,

Fritsche LG, Vestergaard H, Snyder J, Højlund K, Linneberg A, Käräjämäki A, Brandslund I, Kim CE, Witte D, Sørgjerd EP, Brillon DJ, Pedersen O, Beck-Nielsen H, Grarup N, Pratley RE, Rickels MR, Vella A, Ovalle F, Melander O, Harris RI, Varvel S, Grill VER, Hakonarson H, Froguel P, Lonsdale JT, Mauricio D, Schloot NC, Khunti K, Greenbaum CJ, Åsvold BO, Yderstræde KB, Pearson ER, Schwartz S,Voight BF, Hansen T, Tuomi T, Boehm BO, Groop L, Leslie RD, Grant SFA. First Genome Wide Association Study of Latent Autoimmune Diabetes in Adults Reveals Novel Insights Linking Immune and Metabolic Diabetes. Short title: LADA GWAS links immune and metabolic diabetes. Diabetes Care. 2018 Nov;41(11):2396-2403.
178. Rasouli B, Ahlqvist E, Alfredsson L, Andersson T, Carlsson PO, Groop L, Lofvenborg JE, Martinell M, Rosengren A, Tuomi T, Wolk A, Carlsson S. Coffee consumption, genetic susceptibility and risk of latent autoimmune diabetes in adults: A population-based case-control study. Diabetes Metab. 2018 Sep;44(4):354-360.
177. Haljas K, Lahti J, Tuomi T, Isomaa B, Eriksson JG, Groop L, Räikkönen K. Melatonin receptor 1B gene rs10830963 polymorphism, depressive symptoms and glycaemic traits. Ann Med. 2018 Dec;50(8):704-712.
176. Hjort R, Ahlqvist E, Carlsson PO, Grill V, Groop L, Martinell M, Rasouli B, Rosengren A, Tuomi T, Asvold BO, Carlsson S. Overweight, obesity an the risk of LADA: results from a Swedish case-control study and the Norwegian HUNT Study. Diabetologia. 2018 Jun;61(6):1333-1343.
175. Longato E, Acciaroli G, Facchinetti A, Hakaste L, Tuomi T, Maran A, Sparacino G. Glycaemic variability-based classification of impaired glucose tolerance vs. type 2 diabetes using continuous glucose monitoring data. Comput Biol Med. 2018 May 1;96:141-146.
174. van Zuydam NR, Ahlqvist E, Sandholm N, Deshmukh H, Rayner NW, Abdalla M, Ladenvall C, Ziemek D, Fauman E, Robertson NR, McKeigue PM, Valo E, Forsblom C, Harjutsalo V, FINNDIANE Study centres, Perna A, Rurali E, Marcovecchio ML, Igo RP, 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 TRS Project Group, Ang SF, Dorajoo R, Wang L, Clara TSH, McKnight A-J, Duffy S, The Warren 3/UK GoKinD Study Group, Pezzolesi MG, GENIE Consortium, Marre M, Gyorgy B, Hadjadj S, Hiraki LT, DCCT/EDIC group, Ahluwalia TS, Almgren P, Schulz C-A, Orho-Melander M, Linneberg A, Christensen C, Witte DR, Grarup N, Brandslund I, Melander O, Paterson AD, Tregouet D, Maxwell AP, Lim SC, Ma RCV , 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, SUMMIT Consortium, Brosnan MJ, Palmer CNA, Groop P-H, Colhoun HM, Groop LC, McCarthy MI. A genome-wide association study of diabetic kidney disease in subjects with type 2 diabetes. Diabetes. 2018 Jul;67(7):1414-1427.
173. Ahlqvist E, Storm P, Käräjämäki A, Martinelli A, Dorkhan M, Carlsson A, Vikman P, Prasad RB, Mansour D, Almgren P, Wessman Y, Shaat N, Spégel P, Mulder Hindrik, Lindholm E, Melander O, Hansson O, Malmqvist U, Lernmark A, Lahti Å, Lahti K, Forsén T, Tuomi T, Rosengren AH, Groop L. Novel subgroups of adult-onset diabetes and their association with outcomes: a data-driven cluster analysis of six variables. Lancet Diabetes Endocrinol. 2018 May;6(5):361-369.
172. Di Camillo B, Hakaste L, Sambo F, Gabriel R, Kravic J, Isomaa B, Tuomilehto B, Alonso M, Longato E, Facchinetti A, Groop L, Cobelli C, Tuomi T. HAPT2D: High accuracy of prediction of T2D with a model combining basic and advanced data depending on availability. Eur J Endocrinol. 2018 Apr;178(4):331-341.
171. Mahajan A, Wessel J, Willems SM, Zhao W, Robertson NR, Chu AY, Gan W, Kitajima H, Taliun D, Rayner NW, Guo X, Lu Y, Li M, Jensen RA, Hu Y, Huo S, Lohman KK, Zhang W, Cook JP, Prins B, Flannick J, Grarup N, Vladimirovich Trubetskoy V, Kravic J, Kim YJ, Rybin DV, Yaghootkar H, Müller-Nurasyid M, Meidtner K, Li-Gao R, Varga TV, Marten J, Li J, Smith AV, An P, Ligthart S, Gustafsson S, Malerba G, Demirkan A, Tajes JF, Steinthorsdottir V, Wuttke M, Lecoeur C, Preuss M, Bielak LF, Graff M, Highland HM, Justice AE, Liu DJ, Marouli E, Peloso GM, Warren HR, ExomeBP Consortium, MAGIC Consortium, GIANT consortium, Afaq S, Afzal S, Ahlqvist E, Almgren P, Amin N, Bang LB, Bertoni AG, Bombieri C, Bork-Jensen J,

Brandslund I, Brody JA, Burtt NP, Canouil M, Chen YI, Cho YS, Christensen C, Eastwood SV, Eckardt K, Fischer K, Gambaro G, Giedraitis V, Grove ML, de Haan HG, Hackinger S, Hai Y, Han S, Tybjærg-Hansen A, Hivert M, Isomaa B, Jäger S, Jørgensen ME, Jørgensen T, Käräjämäki A, Kim B, Kim SS, Koistinen HA, Kovacs P, Kriebel J, Kronenberg F, Läll K, Lange LA, Lee J, Lehne B, Li H, Lin K, Linneberg A, Liu C, Liu J, Loh M, Mägi R, Mamakou V, McKean-Cowdin R, Nadkarni G, Neville M, Nielsen SF, Ntalla I, Peyser PA, Rathmann W, Rice K, Rich SS, Rode L, Rolandsson O, Schönherr S, Selvin E, Small KS, Stančáková A, Surendran P, Taylor KD, Teslovich TM, Thorand B, Thorleifsson G, Tin A, Tönjes A, Varbo A, Witte1 DR, Wood AR, Yajnik P, Yao J, Yengo L, Young R, Amouye P, Boeing H, Boerwinkle E, Bottinger EP, Chowdhury R, Collins FS, Dedoussis G, Dehghan A, Deloukas P, Ferrario MM, Ferrières J, Florez JC, Frossard P, Gudnason V, Harris TB, Heckbert SR, Howson JMM, Ingelsson M, Kathiresan S, Kee1 F, Kuusisto J, Langenberg C, Launer LJ, Lindgren CM, Männistö S, Meitinger T, Melander O, Mohlke KL, Moitry M, Morris AD, Murray AD, de Mutsert R, Orho-Melander M, Owen KR, Perola M, Peters A, Province MA, Rasheed A, Ridker PM, Rivadineira F, Rosendaal FR, Rosengren AH, Salomaa V, Sheu WH-H, Sladek R, Smith BH, Strauch K, Uitterlinden AG, Varma R, Willer CJ, Blüher M, Butterworth AS, Chambers JC, Chasman DI, Danesh J, van Duijn C, Dupuis J, Franco OH, Franks PW, Froguel P, Grallert H, Groop L, Han B-G, Hansen T, Hattersley AT, Hayward C, Ingelsson E, Kardia SLR, Karpe F, Kooner JS, Köttgen A, Kuulasmaa K, Laakso M, Lin X, Lind L, Liu Y, Loos RJF, Marchini J, Metspalu A, Mook-Kanamori D, Nordestgaard BG, Palmer CNA, Pankow JS, Pedersen O, Psaty BM, Rauramaa R, Sattar N, Schulze MB, Soranzo N, Spector TD, Stefansson K, Stumvoll M, Thorsteinsdottir U, Tuomi T, Tuomilehto J, Wareham NJ, Wilson JG, Zeggini E, Scott RA, Barroso I, Frayling TM, Goodarzi MO, Meigs JB, Boehnke M, Saleheen D, Morris AP, Rotter JI, McCarthy MI. Refining the accuracy of validated target identification through coding variant fine-mapping in type 2 diabetes. Nat Genet. 2018 Apr;50(4):559-571.

170. Acciaroli G, Sparacino G, Hakaste L, Facchinetti A, Di Nunzio GM, Palombit A, Tuomi T, Gabriel R, Aranda J, Vega S, Cobelli C. Diabetes and Prediabetes Classification Using Glycemic Variability Indices From Continuous Glucose Monitoring Data. J Diabetes Sci Technol. 2018 Jan;12(1):105-113.

169. Kraja A, Cook J, Warren H, Surendran P, Liu C, Evangelou E, Manning A, Grarup N, Drenos F, Sim X, Smith A, Amin N, Blakemore A, Bork-Jensen J, Brandslund I, Farmaki A-E, Fava C, Ferreira T, Herzig K-H, Giri A, Giulianini F, Grove M, Guo X, Harris S, Theil Have C, Havulinna A, Zhang H, Jørgensen M, Käräjämäki A, Kooperberg C, Linneberg A, Little L, Liu Y, Bonnycastle L, Lu Y, Mägi R, Mahajan A, Malerba G, Marioni R, Mei H, Menni C, Morrison A, Padmanabhan S, Palmas W, Poveda A, Rauramaa R, Rayner N.W, Riaz M, Rice K, Richard M, Smith J, Southam L, Stancáková A, Stirrups K, Tragante V, Tuomi T, Tzoulaki I, Varga T, Weiss S, Yiorkas A, Young R, Zhang W, Barnes M, Cabrera C, Gao H, Boehnke M, Boerwinkle E, Chambers J, Connell J, Christensen C, de Boer R, Deary I, Dedoussis G, Deloukas P, Dominiczak A, Dörr M, Joehanes R, Edwards T, Esko T, Fornage M, Franceschini N, Franks P, Gambaro G, Groop L, Hallmans G, Hansen T, Hayward C, Heikki O, Ingelsson E, Tuomilehto J, Jarvelin M-R, Kardia S, Karpe F, Kooner J, Korpi-Hyövälti E, Lakka T, Langenberg C, Lind L, Loos R, Laakso M, McCarthy M, Melander O, Mohlke K, Morris A, Palmer C, Pedersen O, Polasek O, Poulter N, Province M, Psaty B, Ridker P, Rotter J, Rudan I, Salomaa V, Samani N, Sever P, Skaaby T, Stafford J, Starr J, van der Harst P, van der Meer P, van Duijn C, Vergnaud A-C, Gudnason V, Wareham N, Wilson J, Willer C, Witte D, Zeggini E, Saleheen D, Butterworth A, Danesh J, Asselbergs F, Wain L, Ehret G, Chasman D, Caulfield M, Elliott P, Lindgren C, Levy D, Newton-Cheh C, Munroe P, and Howson J. New blood pressure associated loci identified in meta-analyses of 475,000 individuals. Circ Cardiovasc Genet. 2017 Oct;10(5). pii: e001778. doi: 10.1161/CIRCGENETICS.117.001778.

168. Almgren P, Lindqvist A, Krus U, Hakaste L, Ottosson-Laakso E, Asplund O, Sonestedt E, Prasad RB, Laurila E, Orho-Melander M, Melander O, Tuomi T, Holst JJ, Nilsson PM, Wierup N, Groop L and Ahlqvist E. Genetic determinants of circulating GIP and GLP-1 concentrations. JCI Insight. 2017 Nov 2;2(21).

167. Patel KA*, Kettunen J*, Laakso M, Stančáková A, Laver T, Colclough K, Johnson M, Abramowicz, Groop L, Miettinen P, Shepherd M, Flanagan SE, Ellard S, Inagaki N, Hattersley AT*, Tuomi T*, Cnop M*, Weedon MN*.

Heterozygous RFX6 protein truncating variants cause Maturity-Onset Diabetes of the Young (MODY) with reduced penetrance. Nat Commun. 2017 Oct 12;8(1):888. *shared contribution
166. Hjort R, Alfredsson L, Andersson T, Carlsson PO, Grill V, Groop L, Martinell M, Rasouli B, Storm P, Tuomi T, Carlsson S. Family history of type 1 and type 2 diabetes and the risk of LADA-latent autoimmune diabetes in adults. Diabetes Metab. 2017 Dec;43(6):536-542.
165. Scott RA, Scott LJ, Mägi R, Marullo L, Gaulton KJ, Kaakinen M, Pervjakova N, Pers TH, Johnson AD, Eicher JD, Jackson AU, Ferreira T, Lee Y, Ma C, Steinthorsdottir V, Thorleifsson G, Qi L, Van Zuydam NR, Mahajan A, Chen H, Almgren P, Voight BF, Grallert H, Müller-Nurasyid M, Ried JS, Rayner NW, Robertson N, Karssen LC, van Leeuwen EM, Willems SM, Fuchsberger C, Kwan P, Teslovich TM, Chanda P, Li M, Lu Y, Dina C, Thuillier D, Yengo L, Jiang L, Sparso T, Kestler HA, Chheda H, Eisele L, Gustafsson S, Frånberg M, Strawbridge RJ, Benediktsson R, Hreidarsson AB, Kong A, Sigurðsson G, Kerrison ND, Luan J, Liang L, Meitinger T, Roden M, Thorand B, Esko T, Mihailov E, Fox C, Liu CT, Rybin D, Isomaa B, Lyssenko V, Tuomi T, Couper DJ, Pankow JS, Grarup N, Have CT, Jørgensen ME, Jørgensen T, Linneberg A, Cornelis MC, van Dam RM, Hunter DJ, Kraft P, Sun Q, Edkins S, Owen KR, Perry JRB, Wood AR, Zeggini E, Tajes-Fernandes J, Abecasis GR, Bonnycastle LL, Chines PS, Stringham HM, Koistinen HA, Kinnunen L, Sennblad B, Mühleisen TW, Nöthen MM, Pechlivanis S, Baldassarre D, Gertow K, Humphries SE, Tremoli E, Klopp N, Meyer J, Steinbach G, Wennauer R, Eriksson JG, Männistö S, Peltonen L, Tikkanen E, Charpentier G, Eury E, Lobbens S, Gigante B, Leander K, McLeod O, Bottinger EP, Gottesman O, Ruderfer D, Blüher M, Kovacs P, Tonjes A, Maruthur NM, Scapoli C, Erbel R, Jöckel KH, Moebus S, de Faire U, Hamsten A, Stumvoll M, Deloukas P, Donnelly PJ, Frayling TM, Hattersley AT, Ripatti S, Salomaa V, Pedersen NL, Boehm BO, Bergman RN, Collins FS, Mohlke KL, Tuomilehto J, Hansen T, Pedersen O, Barroso I, Lannfelt L, Ingelsson E, Lind L, Lindgren CM, Cauchi S, Froguel P, Loos RJF, Balkau B, Boeing H, Franks PW, Barricarte Gurrea A, Palli D, van der Schouw YT, Altshuler D, Groop LC, Langenberg C, Wareham NJ, Sijbrands E, van Duijn CM, Florez JC, Meigs JB, Boerwinkle E, Gieger C, Strauch K, Metspalu A, Morris AD, Palmer CNA, Hu FB, Thorsteinsdottir U, Stefansson K, Dupuis J, Morris AP, Boehnke M, McCarthy MI, Prokopenko I; DIAbetes Genetics Replication And Meta-analysis (DIAGRAM) Consortium. An Expanded Genome-Wide Association Study of Type 2 Diabetes in Europeans. Diabetes. 2017 Nov;66(11):2888-2902.
164. Peddinti G, Cobb J, Yengo L, Froguel P, Kravic J, Balkau B, Tuomi T, Aittokallio T and Groop L. Early metabolic markers identify potential targets for the prevention of type 2 diabetes. Diabetologia. 2017 Sep;60(9):1740-1750.
163. Rasouli B, Andersson T, Carlsson P-O, Hjort R, Edwall Löfvenborg J, Martinell M, Groop L, Tuomi T, Carlsson S. Serious life events and the risk of latent autoimmune diabetes in adults and type 2 diabetes. Diabet Med. 2017 Sep;34(9):1259-1263.
162. Kettunen J, Parviainen H, Miettinen PJ, Färkkilä M, Tamminen M, Salonen P, Lantto E, Tuomi T. Biliary Anomalies in Patients with HNF1B-Diabetes. JCEM, 2017 Jun 1;102(6):2075-2082.
161. Rasouli B, Andersson T, Carlsson PO, Grill V, Groop L, Martinell M, Midthjell K, Storm P, Tuomi T, Carlsson S. Use of Swedish smokeless tobacco (snus) and the risk of Type 2 diabetes and latent autoimmune diabetes of adulthood (LADA). Diabet Med. 2017 Apr;34(4):514-521.
160. Wagner R, Hakaste LH, Ahlqvist E, Heni M, Machann J, Schick F, Van Obberghen E, Stefan N, Gallwitz B, Tuomi T, Häring H-U, Groop L, Fritsche A. Non-suppressed glucagon after glucose challenge as a potential predictor for glucose tolerance. Diabetes, 2017 May;66(5):1373-1379.
159. Löfvenborg JE, Andersson T, Carlsson PO, Dorkhan M, Groop L, Martinell M, Tuomi T, Wolk A, Carlsson S. Sweetened beverage intake and risk of latent autoimmune diabetes in adults (LADA) and type 2 diabetes. Eur J Endocrinol 2016; 175;(6): 605-614.
158. Dayeh T, Tuomi T, Almgren P, Perfilyev A, Jansson P-A, Pihlajamäki J, de Mello V-D, Vaag A, Groop L, Nilsson E and Ling C. DNA methylation of loci within ABCG1 and PHOSPHO1 in blood DNA is associated with future type 2 diabetes risk. Epigenetics 2016; Jul 2;11(7):482-8.
157. Prasad BR, Lessmark A, Almgren P, Kovacs G, Hansson O, Vitai M,

Ladenvall C, Kovacs P, Fadista J, Lachmann M, Zhou Y, Sonestedt E, Poon W, Wollheim CB, Orho-Melander M, Stumvoll M, Tuomi T, Pääbo S, Koranyi L, Groop L. Excess maternal transmission of variants in the THADA gene to offspring with type 2 diabetes. Diabetologia 2016; Aug;59(8):1702-13.
156. Fuchsberger C, Flannick J, Teslovich TM, Mahajan A, Agarwala V, Gaulton KJ, Ma C, Fontanillas P, Moutsianas L, McCarthy DJ, Rivas MA, Perry JRB, Sim X, Blackwell TW, Robertson NR, Rayner NW, Cingolani P, Locke AE, Tajes JF, Highland HM, Dupuis J, Chines PS, Lindgren CM, Hartl C, Jackson AU, Chen H, Huyghe JR, van de Bunt M, Pearson RD, Kumar A, Müller-Nurasyid M, Grarup N, Stringham HM, Gamazon ER, Lee J, Chen Y, Scott RA, Below JE, Chen P, Huang J, Go MJ, Stitzel ML, Pasko D, Parker SCJ, Varga TV, Green T, Beer NL, Day-Williams AG, Ferreira T, Fingerlin T, Horikoshi M, Hu C, Huh I, Ikram MK, Kim BJ, Kim Y, Kim YJ, Kwon MS, Lee J, Lee S, Lin KH, Maxwell TJ, Nagai Y, Wang X, Welch RP, Yoon J, Zhang W, Barzilai N, Voight BF, Han BG, Jenkinson CP, Kuulasmaa T, Kuusisto J, Manning A, Ng MCY, Palmer ND, Balkau B, Stančáková A, Abboud HE, Boeing H, Giedraitis V, Prabhakaran D, Gottesman O, Scott J, Carey J, Kwan P, Grant G, Smith JD, Neale BM, Purcell S, Butterworth AS, Howson JMM, Lee HM, Lu Y, Kwak SH, Zhao W, Danesh J, Lam VKL, Park KS, Saleheen D, So WY, Tam CHT, Afzal U, Aguilar D, Arya R, Aung T, Chan E, Navarro C, Cheng CY, Palli D, Correa A, Curran JE, Rybin D, Farook VS, Fowler SP, Freedman BI, Griswold M, Hale DE, Hicks PJ, Khor CC, Kumar S, Lehne B, Thuillier D, Lim WY, Liu J, van der Schouw YT, Loh M, Musani SK, Puppala S, Scott WR, Yengo L, Tan ST, Taylor HA Jr, Thameem F, Wilson G Sr, Wong TY, Njølstad PR, Levy JC, Mangino M, Bonnycastle LL, Schwarzmayr T, Fadista J, Surdulescu GL, Herder C, Groves CJ, Wieland T, Bork-Jensen J, Brandslund I, Christensen C, Koistinen HA, Doney ASF, Kinnunen L, Esko T, Farmer AJ, Hakaste L, Hodgkiss D, Kravic J, Lyssenko V, Hollensted M, Jørgensen ME, Jørgensen T, Ladenvall C, Justesen JM, Käräjämäki A, Kriebel J, Rathmann W, Lannfelt L, Lauritzen T, Narisu N, Linneberg A, Melander O, Milani L, Neville M, Orho-Melander M, Qi L, Qi Q, Roden M, Rolandsson O, Swift A, Rosengren AH, Stirrups K, Wood AR, Mihailov E, Blancher C, Carneiro MO, Maguire J, Poplin R, Shakir K, Fennell T, DePristo M, de Angelis MH, Deloukas P, Gjesing AP, Jun G, Nilsson P, Murphy J, Onofrio R, Thorand B, Hansen T, Meisinger C, Hu FB, Isomaa B, Karpe F, Liang L, Peters A, Huth C, O'Rahilly SP, Palmer CNA, Pedersen O, Rauramaa R, Tuomilehto J, Salomaa V, Watanabe RM, Syvänen AC, Bergman RN, Bharadwaj D, Bottinger EP, Cho YS, Chandak GR, Chan JCN, Chia KS, Daly MJ, Ebrahim SB, Langenberg C, Elliott P, Jablonski KA, Lehman DM, Jia W, Ma RCW, Pollin TI, Sandhu M, Tandon N, Froguel P, Barroso I, Teo YY, Zeggini E, Loos RJF, Small KS, Ried JS, DeFronzo RA, Grallert H, Glaser B, Metspalu A, Wareham NJ, Walker M, Banks E, Gieger C, Ingelsson E, Im HK, Illig T, Franks PW, Buck G, Trakalo J, Buck D, Prokopenko I, Mägi R, Lind L, Farjoun Y, Owen KR, Gloyn AL, Strauch K, Tuomi T, Kooner JS, Lee JY, Park T, Donnelly P, Morris AD, Hattersley AT, Bowden DW, Collins FS, Atzmon G, Chambers JC, Spector TD, Laakso M, Strom TM, Bell GI, Blangero J, Duggirala R, Tai ES, McVean G, Hanis CL, Wilson JG, Seielstad M, Frayling TM, Meigs JB, Cox NJ, Sladek R, Lander ES, Gabriel S, Burtt NP, Mohlke KL, Meitinger T, Groop L, Abecasis G, Florez JC, Scott LJ, Morris AP, Kang HM, Boehnke M, Altshuler D, McCarthy MI.Genetic architecture of type 2 diabetes. Nature 2016;Aug 4;536:41-47.
155. Tuomi T*, Nagorny CLF*, Singh P, Bennet H, Yu Q, Alenkvist I, Isomaa B, Östman B, Söderström J, Pesonen A-K, Martikainen S, Räikkönen K, Forsén T, Hakaste L, Almgren P, Storm P, Asplund O, Shcherbina L, Fex M, Fadista J, Tengholm A, Wierup N, Groop L, and Mulder H. Increased melatonin signaling is a risk factor for Type 2 Diabetes. Cell Metabolism 2016; Jun 14;23(6):1067-77. * shared contribution
154. Rasouli B, Andersson T, Carlsson P-O, Grill V, Groop L, Martinell M, Storm P, Tuomi T, Carlsson S. Smoking and the risk of LADA: results from a Swedish population-based case-control study. Diabetes Care 2016; May;39(5):794-800.
153. Bacos K, Volkov P, Gillberg L, Olsson AH, Hansen T, Pedersen O, Prior Gjesing A, Eiberg H, Tuomi T, Almgren P, Groop L, Vaag A, Dayeh T. and Ling C. Blood-based epigenetic biomarkers mirror age-associated DNA methylation changes in human pancreatic islets and predict insulin secretion and type 2 diabetes. Nature Communications 2016; Mar 31;7:11089.
152. Ottosson-Laakso E, Tuomi T, Forsen B, Gullström M, Groop P-H, Groop

L, Vikman P. Influence of Familial Renal Glycosuria due to Mutations in the SLC5A2 Gene on Changes in Glucose Tolerance Over Time. PLoS One. 2016 Jan 6;11(1):e0146114.
151. Sambo F, Facchinetti A, Hakaste L, Kravic J. Di Camillo B, Fico G, Tuomilehto J, Groop L, Gabriel R, Tuomi T. and Cobelli C. A Bayesian network for probabilistic reasoning and imputation of missing risk factors in type 2 diabetes. AIME 2015, Conf Proc IEEE Eng Med Biol Soc. 2015:2119-22.
150. 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, Frånberg 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 WH, 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, Tikkanen 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 Dec;47(12):1415-25.
149. Hjort R, Alfredsson L, Carlsson PO, Groop L, Martinell M, Storm P, Tuomi T, Carlsson S. Low birthweight is associated with an increased risk of LADA and type 2 diabetes: results from a Swedish case-control study. Diabetologia. 2015 58(11):2525-32.
148. Mahajan A, Sim X, 68, Ng HJ, Manning A, Rivas MA, Highland HM, Locke AE, Grarup N, Im HK, Cingolani P, Flannick J, Fontanillas P, Fuchsberger C, Gaulton KJ, Teslovich TM, Rayner NW, Robertson NR, Beer NL, Rundle JK, Bork-Jensen J, Ladenvall C, Blancher C, Buck D, Buck G, Burtt NP, 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, Syvänen AC, Trakalo J, Abecasis G, Bell GI, Blangero J, Cox NJ, Duggirala R, Hanis CL, Seielstad M, Wilson JG, Christensen C, Brandslund I, Rauramaa R, Surdulescu GL, Doney ASF, Lannfelt L, Linneberg A, Isomaa B, Tuomi T, Jørgensen ME, Jørgensen T, Kuusisto J, Uusitupa M, Salomaa V, Spector TD, Morris AD, Palmer CNA, Collins FS, Mohlke KL, Bergman RN, Ingelsson E, Lind L, Tuomilehto J, Hansen T, Watanabe RM, Prokopenko I, Dupuis J, Karpe F, Groop L, Laakso M, Pedersen O, Florez JC, Morris AP, Altshuler D, Meigs JB, Boehnke M, McCarthy MI, Lindgren CM, Gloyn AL. Identification and functional characterization of G6PC2 coding variants influencing glycemic traits define an effector transcript at the G6PC2-ABCB11 locus. PLOS Genetics, 2015;27;11(1):e1004876.

147. Alyass A, Almgren P, Åkerlund M, Dushoff J, Isomaa B, Nilsson P, Tuomi T, Lyssenko V, Groop L, Meyre D. Modeling of oral glucose tolerance test curve identifies one-hour plasma glucose level as a strong predictor of incident type 2 diabetes: results from two prospective cohorts. Diabetologia. 2015;58(1):87-97.
146. Löfvenborg JE, Andersson T, Carlsson PO, Dorkhan M, Tuomi T, Martinell M, Wolk A, Carlsson S, Groop L. Fatty fish consumption and risk of latent autoimmune diabetes in adults. Nutr Diabetes. 2014 Oct 20;4:e139. doi: 10.1038/nutd.2014.36.
145. Lim E, Lin YP, Chan Y, Tuomi T, Käräjämäki A, Madsen E, Go-T2D Consortium, Altshuler DM, Raychaudhuri S, Groop L, Flannick J, Hirschhorn JN, Katsanis N, Daly MJ. A Novel Test for Recessive Contributions to Complex Diseases Implicates Bardet-Biedl Syndrome Gene BBS10 in Idiopathic Type 2 Diabetes and Obesity. AJHG 2014; 95(5): 509–520.
144. Rasouli B, Carlsson S, Andersson T, Grill V, Tuomi T, Groop L, Dorkhan M, Martinell M, Carlsson PO. Alcohol and the risk for LADA: results based on the Swedish ESTRID study. European Journal of Endocrinology, 2014: 171(5); 535-543.
143. Andersen M, Sterner M, Forsén T, Käräjämäki A, Rolandsson O, Forsblom C, Groop PH, Lahti K, Nilsson PM, Groop L, Tuomi T. Type 2 diabetes susceptibility gene variants predispose to adult-onset autoimmune diabetes. Diabetologia, 2014: 57(9):1859-68.
142. Löfvenborg JE, Andersson T, Carlsson P-O, Dorkhan M, Groop L, Martinell M, Rasouli B, Rosengren H A, Storm P, Tuomi T, Carlsson S. Coffee consumption increases the risk of LADA (latent autoimmune diabetes in adults) – results from a Swedish case-control study. Diabetic Medicine, 2014: 31(7):799-805.
141. Pyykkönen AJ, Räikkönen K, Tuomi T, Isomaa B, Groop L, Pesonen AK, Eriksson J. Sleep duration and insulin resistance in individuals without type 2 diabetes: the PPP-Botnia Study. Annals of Medicine, 2014: 46(5):324-9.
140. Prokopenko I, Poon W, Mägi R, Prasad BR, 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 UC, Liu J, O'Connell JR, Blomstedt PA, Fadista J, Alkayyali S, Dayeh T, Ahlqvist E, Taneera J, Leceour 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 N, 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 Genetics, 2014: 10(4); e1004235.
139. Flannick J, Thorleifsson G, Beer NL, Jacobs SBR, Grarup N, Mahajan A, Fuchsberger C, Atzmon G, Benediktsson R, Blangero J, Bowden DW, Brandslund I, Brosnan J, Burslem F, Burtt NP, Chambers J, Cho YS, Christensen C, Douglas DA, Duggirala R, Dymek Z, Farjoun Y, Fennell T, Fontanillas P, Forsén T, Gabriel S, Glaser B, Gudbjartsson DF, Hanis C, Hansen T, Hreidarsson AB, Hveem K, Ingelsson E, Isomaa B, Johansson S, Jørgensen T, Jørgensen ME, Kathiresan S, Kong A, Kooner J, Kravic J, Laakso M, Lee JY, Lind L, Lindgren CM, Linneberg A, Masson G, Meitinger T, Mohlke KL, Molven A, Morris AP, Potluri S, Rauramaa R, Ribel-Madsen R, Richard AM, Rolph T, Salomaa V, Segré AV, Skärstrand H, Steinthorsdottir V, Stringham H, Sulem P, Tai ES, Teo YY, Teslovich T, Thorsteinsdottir U, Trimmer JK, Tuomi T, Tuomilehto J, Vaziri-Sani F, Voight BF, Wilson JG, Boehnke M, McCarthy MI, Njølstad PR, Pedersen O, the Go-T2D consortium, the T2D-GENES consortium, Leif Groop, David R. Cox, Kari Stefansson, and David Altshuler. Loss-of-function mutations in SLC30A8 protect against type 2 diabetes. Nature Genetics, 2014: 46(4); 357-63.
138. Flannick J, Beer NL, Bick AG, Agarwala V, Molnes J, Gupta N, Burtt NP, Florez JC, Meigs JB, Taylor H, Lyssenko V, Irgens H, Fox E, Burslem F, Johansson S, Brosnan MJ, Trimmer JK, Newton-Cheh C, Tuomi T, Molven A, Wilson JG, O'Donnell CJ, Kathiresan S, Hirschhorn JN, Njølstad PR, Rolph T, Seidman JG, Gabriel S, Cox DR, Seidman CE, Groop L, Altshuler D. Assessing the phenotypic effects in the general population of rare variants in genes for a dominant Mendelian form of diabetes. Nature Genetics 2013;45:1380-1385.

137. Ahlqvist E, Osmark P, Kuulasmaa T, Pilgaard K, Omar B, Brøns C, Kotova O, Zetterqvist AV, Stancáková A, Jonsson A, Hansson O, Kuusisto J, Kieffer TJ, Tuomi T, Isomaa B, Madsbad S, Gomez MF, Poulsen P, Laakso M, Degerman E, Pihlajamäki J, Wierup N, Vaag A, Groop L, Lyssenko V. A link between GIP and osteopontin in adipose tissue and insulin resistance. Diabetes 2013;62(6):2088-94.
136. Jonsson A, Ladenvall C, Ahluwalia TS, Kravic K, Krus U, Taneera J, Isomaa B, Tuomi T, Renström E, Groop L and Lyssenko V. Effects of Common Genetic Variants Associated With Type 2 Diabetes and Glycemic Traits on α- and β-Cell Function and Insulin Action in Humans. Diabetes 2013;62(8):2978-83.
135. Andersen MK, Härkönen T, Forsblom C, Groop P-H, Knip M, Tuomi T. Zinc transporter type 8 autoantibodies (ZnT8A): prevalence and phenotypic associations in latent autoimmune diabetes in adults and type 1 diabetes diagnosed >35 years. Autoimmunity 2013;46(4):251-8.
134. Lundgren VM, Andersen MK, Isomaa B, Tuomi T. Family history of Type 1 diabetes affects insulin secretion in patients with "Type 2" diabetes. Diabetic Medicine, 2013;30(5):e163-9.
133. Spégel P, Ekholm E, Tuomi T, Groop L, Mulder H, Filipsson K. Metabolite profiling reveals normal metabolic control in carriers of mutations in the glucokinase gene (MODY2). Diabetes 2013; 62(2):653-61.
132. Reinbothe TM, Alkayyali S, Ahlqvist E, Tuomi T, Isomaa B, Lyssenko V, Renstrom E. The human L-type calcium channel Cav1.3 regulates insulin release and polymorphisms in CACNA1D associate with type 2 diabetes. Diabetologia 2013; 56(2):340-9.
131. Fall T, Hägg S, Mägi R, Ploner A, Fischer K, Horikoshi M, Sarin AP, Thorleifsson G, Ladenvall C, Kals M, Kuningas M, Draisma HHM, Ried JS, van Zuydam NR, Huikari V, Mangino M, Sonestedt E, Benyamin B, Nelson CP, Rivera NV, Kristiansson K, Shen H, Havulinna AS, Dehghan A, Donnelly LA, Kaakinen M, Nuotio ML, Robertson N, de Bruijn RFAG, Ikram MA, Amin N, Balmforth AJ, Braund PS, Doney ASF, Döring A, Elliott P, Esko T, Franco OH, Gretarsdottir S, Hartikainen AL, Heikkilä K, Herzig KH, Holm H, Hottenga JJ, Hyppönen E, Illig T, Isaacs A, Isomaa B, Karssen LC, Kettunen J, Koenig W, Kuulasmaa K, Laatikainen T, Laitinen J, Lindgren C, Lyssenko V, Läärä E, Rayner NW, Männistö S, Pouta A, Rathmann W, Rivadeneira F, Ruokonen A, Savolainen MJ, Sijbrands EJG, Small KS, Smit JH, Steinthorsdottir V, Syvänen AC, Taanila A, Tobin MD, Uitterlinden AG, Willems SM, Willemsen G, Witteman J, Perola M, Evans A, Ferrières J, Virtamo J, Kee F, Tregouet DA, Arveiler D, Amouyel P, Ferrario MM, Brambilla P, Hall AS, Heath AC, Madden PAF, Martin NG, Montgomery GW, Whitfield JB, Jula A, Knekt P, Oostra B, van Duijn CM, Penninx BWJH, Davey Smith G, Kaprio J, Samani NJ, Gieger C, Peters A, Wichmann HE, Boomsma DI, Eco J. C. de Geus, Tuomi T, Power C, Hammond CJ, Spector TD, Lind L, Orho-Melander M, Palmer CNA, Morris AD, Groop L, Järvelin MR, Salomaa V, Vartiainen E, Hofman A, Ripatti S, Metspalu A, Thorsteinsdottir U, Stefansson K, Pedersen NL, McCarthy MI, Ingelsson E and Prokopenko I for the European Network for Genetic and Genomic Epidemiology (ENGAGE) consortium. The Role of Adiposity in Cardiometabolic Traits: A Mendelian Randomization Analysis. Plos One 2013;10(6):e1001474.
130. Albrechtsen A, Grarup N, Li Y, Sparsø T, Tian G, Cao H, Jiang T, Kim SY, Korneliussen T, Li Q, Nie C, Wu R, Skotte L, Morris AP, Ladenvall C, Cauchi S, Stančáková A, Andersen G, Astrup A, Banasik K, Bennett AJ, Bolund L, Charpentier G, Chen Y, Dekker JM, Doney AS, Dorkhan M, Forsen T, Frayling TM, Groves CJ, Gui Y, Hallmans G, Hattersley AT, He K, Hitman GA, Holmkvist J, Huang S, Jiang H, Jin X, Justesen JM, Kristiansen K, Kuusisto J, Lajer M, Lantieri O, Li W, Liang H, Liao Q, Liu X, Ma T, Ma X, Manijak MP, Marre M, Mokrosiński J, Morris AD, Mu B, Nielsen AA, Nijpels G, Nilsson P, Palmer CN, Rayner NW, Renström F, Ribel-Madsen R, Robertson N, Rolandsson O, Rossing P, Schwartz TW, Slagboom PE, Sterner M; D.E.S.I.R. Study Group, Tang M, Tarnow L; the DIAGRAM Consortium, Tuomi T, Van't Riet E, van Leeuwen N, Varga TV, Vestmar MA, Walker M, Wang B, Wang Y, Wu H, Xi F, Yengo L, Yu C, Zhang X, Zhang J, Zhang Q, Zhang W, Zheng H, Zhou Y, Altshuler D, 't Hart LM, Franks PW, Balkau B, Froguel P, McCarthy MI, Laakso M, Groop L, Christensen C, Brandslund I, Lauritzen T, Witte DR, Linneberg A, Jørgensen T, Hansen T, Wang J, Nielsen R, Pedersen O. Exome sequencing-driven discovery of coding polymorphisms associated with common metabolic phenotypes. Diabetologia, 2013; 56(2):298-310.

129. Andersen M, Lundgren V, Isomaa B, Groop G, Tuomi T. Association of variants in HLA-DQA1-DQB1, PTPN22, INS, AND CTLA4 with GAD-autoantibodies and insulin secretion in non-diabetic adults of the Botnia Prospective Study. Eur J Endocrinology 2012; 167(1):27-33.
128. Morris AP*, Voight BF*, Teslovich TM*, Ferreira T*, Segrè AV*, Steinthorsdottir 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, Mueller M, Pechlivanis S, Rayner NW, Scott LJ, Wiltshire S, Yengo L, Rossin EJ, Raychaudhuri S, Johnson AD, Dimas AS, Chen H, Dupuis J, Fox C, Liu C, Rybin D, Couper DJ, Kao WL, 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 JRB, Platou CGP, Potter S, Rehnberg E, Robertson N, Sivapalaratnam S, Stancakova 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 ASF, 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, Klopp N, Kravic J, Krjutškov K, Langford C, Leander K, Lindholm E, Lobbens S, Männistö S, Mirza G, Mühleisen 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 K, Zeggini E, Trip MD, Forouhi NG, Syvänen A, Eriksson JG, Peltonen L, Nöthen MM, Balkau B, Palmer CNA, Lyssenko V, Tuomi T, Isomaa B, Hunter D, Qi L, The Wellcome Trust Case Control Consortium, MAGIC Investigators, GIANT Consortium, Shuldiner A, Roden M, Barroso I, Beilby J, Hovingh K, Price JF, Wilson JF, Rauramaa R, Lakka TA, Lind L, Dedoussis G, Njølstad I, Pedersen NL, Khaw K, Wareham N, Keinanen-Kiukaanniemi SM, Saaristo TE, Korpi-Hyövälti E, Saltevo J, Laakso M, Kuusisto J, Metspalu A, Collins FS, Mohlke KL, Bergman RN, Tuomilehto J, Böehm B, Gieger C, Hveem K, Cauchi S, Froguel P, Baldassarre D, Tremoli E, Humphries S, Saleheen D, Danesh J, Ingelsson E, Ripatti S, Salomaa V, Erbel R, Jöckel K, 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*, Altshuler D*, Hu F*, Pankow JS*, Florez JC*, Meigs JB*, Boehnke M*, McCarthy MI*. Large-scale association analysis provides insights into the genetic architecture and pathophysiology of type 2 diabetes. Nature Genetics 2012; 44(9):981-990.
127. Jonsson A, Isomaa B, Tuomi T, Eriksson J, Groop L, and Lyssenko V. Effect of a common variant in the PCSK2 gene on reduced insulin secretion. Diabetologia, 2012; 55;(12):3245-51.
126. Ahlqvist E, Turrini F, Lang ST, Taneera J, Zhou Y, Almgren P, Hansson O, Isomaa B, Tuomi T, Eriksson K, Eriksson JG, Lyssenko V and Groop L. A Common Variant Upstream of the PAX6 Gene Influences Islet Function in Man. Diabetologia 2012; 55(1):94-104.
125. Ferrannini E, Natali A, Camastra S, Nannipieri M, Mari A, Adam K-P, Milburn, MV, Kastenmüller G, Adamski J, Tuomi T, Lyssenko V, Groop L, and Gall WE. Early Metabolic Markers of the Development of Dysglycemia and Type 2 diabetes and their Physiological Significance. Diabetes 2013; 62(5):1730-7.
124. Reiling E, Lyssenko V, Boer J.M.A, Imholz S, Monique W, Verschuren M, Isomaa B, Tuomi T, Groop L, Dollé M.E.T. Codon 72 polymorphism (rs1042522) of TP53 is associated with changes in diastolic blood pressure over time. EJHG 2012; 20(6):696-700.
123. Pyykkönen AJ, Isomaa I, Pesonen A-K, Eriksson JG, Groop L, Tuomi T, Räikkönen K. Subjective sleep complaints are associated with insulin resistance in individuals without diabetes: the PPP-Botnia Study. Diabetes Care 2012; 35;(11):2271-2278.
122. Pyykkönen A-J, Räikkönen K, Tuomi T, Eriksson JG, Groop L, Isomaa B. Association between depressive symptoms and metabolic syndrome is not explained by antidepressant medication: Results from the PPP-Botnia Study. Ann Med. 2012; 44;(3):279-88.
121. Abdul-Ghani MA, Abdul-Ghani T, Stern MP, Karavic J, Tuomi T, Bo I, Defronzo RA, Groop L. Two-step approach for the prediction of future type 2 diabetes risk. Diabetes Care. 2011 Sep;34(9):2108-12.

120. Pyykkönen A-J, Räikkönen K, Tuomi T, Eriksson J, Groop L, Isomaa B. Depressive symptoms, antidepressant medication use and insulin resistance: the PPP-Botnia Study. Diabetes Care 2011; 34;(12):2545-2547.
119. Strawbridge RJ, Dupuis J, Prokopenko I, Barker A, Ahlqvist E, Rybin D, Petrie JR, Travers ME, Bouatia-Naji N, Dimas AS, Nica A, Wheeler E, Chen H, Voight BF, Taneera J, Kanoni S, Peden JF, Turrini F, Gustafsson S, Zabena C, Almgren P, Barker DJ, Barnes D, Dennison EM, Eriksson JG, Eriksson P, Eury E, Folkersen L, Fox CS, Frayling TM, Goel A, Gu HF, Horikoshi M, Isomaa B, Jackson AU, Jameson KA, Kajantie E, Kerr-Conte J, Kuulasmaa T, Kuusisto J, Loos RJ, Luan J, Makrilakis K, Manning AK, Martinez-Larrad MT, Narisu N, Nastase Mannila M, Ohrvik J, Osmond C, Pascoe L, Payne F, Sayer AA, Sennblad B, Silveira A, Stancakova A, Stirrups K, Swift AJ, Syvanen AC, Tuomi T, van 't Hooft FM, Walker M, Weedon MN, Xie W, Zethelius B, Ongen H, Malarstig A, Hopewell JC, Saleheen D, Chambers J, Parish S, Danesh J, Kooner J, Ostenson CG, Lind L, Cooper CC, Serrano-Rios M, Ferrannini E, Forsen TJ, Clarke R, Franzosi MG, Seedorf U, Watkins H, Froguel P, Johnson P, Deloukas P, Collins FS, Laakso M, Dermitzakis ET, Boehnke M, McCarthy MI, Wareham NJ, Groop L, Pattou F, Gloyn AL, Dedoussis GV, Lyssenko V, Meigs JB, Barroso I, Watanabe RM, Ingelsson E, Langenberg C, Hamsten A, Florez JC: Genome-wide association identifies nine common variants associated with fasting proinsulin levels and provides new insights into the pathophysiology of type 2 diabetes. Diabetes 2011; 60:2624–2634.
118. Almgren P, Lehtovirta M, Isomaa B, Sarelin L, Taskinen M-R, Lyssenko V, Tuomi T and Groop L, for the Botnia Study group. Heritability and familiality of type 2 diabetes and related quantitative traits in the Botnia Study. Diabetologia 2011; 54(11):2811-9.
117. Thanabalasingham G, Shah N, Vaxillaire M, Hansen T, Tuomi T, Gašperíková D, Szopa M, Tjora E, James TJ, Kokko P, Loiseleur F, Andersson E, Gaget S, Isomaa B, Nowak N, Raeder H, Stanik J, Njolstad PR, Malecki MT, Klimes I, Groop L, Pedersen O, Frogue P, McCarthy MI, Gloyn AL, Owen KR. A large multi-centre European study validates high-sensitivity C-reactive protein (hsCRP) as a clinical biomarker for the diagnosis of diabetes subtypes. Diabetologia 2011; 54(11):2801-10.
116. Lyssenko V, Eliasson L, Kotova O, Pilgaard K, Wierup Nils, Salehi A, Wendt A, Jonsson A, De Marinis Y, Berglund L, Taneera J, Balhuizen A, Hansson O, Osmark P, Dunér P, Brøns C, Stančáková A, Kuusisto J, Bugliani M, Saxena R, Ahlqvist E, Kieffer T, Tuomi T, Isomaa B, Melander O, Sonestedt E, Orho-Melander Marju; Nilsson P; Bonetti SB; Bonadonna R, Miccoli R, DelPrato S, Marchetti P, Madsbad S, Poulsen P, Vaag A, Laakso M, Gomez M, Groop L. Pleiotropic effects of GIP on islet function involve osteopontin. Diabetes 2011; 60(9):2424-33. (Correction: 2012; Vol 61;6:1648)
115. Guey LT, Kravic J, Melander O, Burtt NP, Laramie J, Lyssenko V, Jonsson A, Lindholm E, Tuomi T, Isomaa B, Nilsson P, Almgren P, Kathiresan S, Groop L, Seymour AB, Altshuler D, Voight BF. Power in the phenotypic extremes: a simulation study of power in discovery and replication of rare variants. Genetic Epidemiology 2011;35;4:236–46.
114. Abdul-Ghani MA, Stern MP, Lyssenko V, Tuomi T, Groop L. Defronzo RA. Minimal contribution of fasting hyperglycemia to the incidence of type 2 diabetes in subjects with normal 2-h plasma glucose. Diabetes Care 2010; 33(3):557-61.
113. Abdul-Ghani MA, Stern MP, Lyssenko V, Tuomi T, DeFronzo RA, Groop L: The shape of plasma glucose concentration curve during OGTT predicts future type 2 diabetes. Diabetes Metab Res Rev. 2010; 26: 280-6.
112. Andersen M, Lundgren V, Isomaa B, Turunen J, Forsblom C, Groop P-H, Groop L, Tuomi T. Latent Autoimmune Diabetes in Adults differs genetically from classical type 1 diabetes diagnosed after the age of 35 years. Diabetes Care 2010; 33(9):2062-4.
111. Isomaa B, Forsén B, Lahti K, Holmström N, Wadén J, Matintupa O, Almgren P, Eriksson JG, Lyssenko V, Taskinen M-R, Tuomi T, Groop LC. A family history of diabetes is associated with reduced physical fitness in the Prevalence, Prediction and Prevention of Diabetes (PPP)-Botnia study. Diabetologia 2010; 53(8):1709-13.
110. Ingelsson E, Langenberg C, Hivert M-F, Prokopenko I, Lyssenko V, Dupuis J, Mägi R, Sharp S, Jackson AU, Assimes TL, Shrader P, Knowles JW, Zethelius B, Abbasi FA, Bergman RN, Bergmann A, Berne C, Boehnke M,

Bonnycastle LL, Bornstein SR, Buchanan TA, Bumpstead SJ, Böttcher Y, Chines P, Collins FS, Cooper CC, Dennison EM, Erdos MR, Ferrannini E, Fox CS, Graessler J, Hao K, Isomaa B, Jameson KA, Kovacs P, Kuusisto J, Laakso M, Ladenvall C, Mohlke KL, Morken MA, Narisu N, Nathan DM, Pascoe L, Payne F, Petrie JR, Sayer AA, Schwarz P, Scott LJ, Stringham HM, Stumvoll M, Swift AJ, Syvänen A-C, Tuomi T, Tuomilehto J, Tönjes A, Valle TT, Williams GH, Lind L, Barroso I, Quertermous T, Walker M, Wareham NJ, Meigs JB, McCarthy MI, Groop L, Watanabe RM, Florez JC, on behalf of the MAGIC investigators. Detailed Physiologic Characterization Reveals Diverse Mechanisms for Novel Genetic Loci Regulating Glucose and Insulin Metabolism in Humans. Diabetes 2010; 59(5):1266-75.

109. Pyykkönen A-J, Räikkönen K, Tuomi T, Eriksson JG, Groop L, Isomaa B. Stressful life events and the metabolic syndrome: The PPP-Botnia Study. Diabetes Care 2010;33(2):378-84.

108. Saxena R, Hivert M-F, Langenberg C, Tanaka T, Pankow JS, Vollenweider P, Lyssenko V, Bouatia‐Naji N, Dupuis J, Jackson AU, Kao L, Li M, Glazer NL, Manning AK, Luan J, Stringham HM, Prokopenko I, Johnson T, Grarup N, Lecoeur C, Shrader P, O'Connell J, Ingelsson E, Couper DJ, Rice K, Song K, Andreasen CH, Dina C, Köttgen A, Le Bacquer O, Pattou F, Taneera J, Steinthorsdottir V, Rybin D, Ardlie A, Sampson M, Qi L, Van Hoek M, Weedon MN, Aulchenko YS, Voight BF, Grallert H, Balkau B, Bergman RN, Bielinski SJ, Bonnefond A, Bonnycastle LL, Borch‐Johnsen K, Böttcher Y, Brunner E, Buchanan TA, Bumpstead SJ, Cavalcanti‐Proença C, Charpentier G, Chen YI, Chines PS, Collins FS, Cornelis M, Crawford GJ, Delplanque J, Doney A, Egan JM, Erdos MR, Firmann M, Forouhi NG, Fox CS, Goodarzi MO, Graessler J, Hingorani A, Isomaa B, Jørgensen T, Kivimaki M, Kovacs P, Krohn K, Kumari M, Lauritzen T, Lévy‐Marchal C, Mayor V, McAteer JB, Meyre M, Mitchell BD, Mohlke KL, Morken MA, Narisu N, Palmer CNA, Pakyz R, Pascoe L, Payne F, Pearson D, Rathmann W, Sandbaek A, Sayer AA, Scott LJ, Sharp SJ, Sijbrands E, Singleton A, Siscovick DS, Smith NL, Sparsø T, Swift A, Syddall H, Thorleifsson G, Tönjes A, Tuomi T, Tuomilehto J, Valle TT, Waeber G, Walley A, Waterworth DM, Zeggini E, Zhao JH, GIANT Consortium, Illig T, Wichmann HE, Wilson JF, van Duijn C, Hu FB, Morris AD, Frayling TM, Hattersley AT, Thorsteinsdottir U, Stefansson K, Nilsson P, Syvänen A-C, Shuldiner AR, Walker M, Bornstein SR, Schwarz P, Williams GH, Nathan DM, Kuusisto J, Laakso M. Cooper C, Hansen T, Pedersen O, Marmot M, Ferrucci L, Mooser V, Stumvoll M, Loos RF, Altshuler D, Psaty BM, Rotter JI, Boerwinkle E, Florez JC, McCarthy MI, Boehnke M, Barroso I, Sladek R, Froguel P, Meigs JB, Groop L, Wareham MJ, Watanabe RM for the MAGIC investigators. Genetic Variation in Gastric Inhibitory Polypeptide Receptor (GIPR) Impacts the Glucose and Insulin Responses to an Oral Glucose Challenge. Nat Genetics 2010; 42(2):142-8.

107. Dupuis J*, Langenberg C*, Prokopenko I*, Saxena R*, Soranzo N*, Jackson AU, Wheeler E, Glazer NL, Bouatia-Naji N, Gloyn AL, Lindgren CM, Mägi R, Morris AP, Randall J, Johnson T, Elliott P, Rybin D, Thorleifsson G, Steinthorsdottir V, Henneman P, Grallert H, Dehghan A, Hottenga JJ, Franklin CS, Navarro P, Song K, Goel A, Perry JRB, Egan JM, Lajunen T, Grarup N, Sparsø T, Doney A, Voight BF, Stringham HM, Li M, Kanoni S, Shrader P, Cavalcanti-Proença C, Kumari M, Qi L, Timpson NJ, Gieger C, Zabena C, Rocheleau G, Ingelsson E, An P, O'Connell J, Luan J, Elliott A, McCarroll SA, Payne F, Roccasecca RM, Pattou F, Sethupathy P, Ardlie K, Ariyurek Y, Balkau B, Barter P, Beilby JP, Ben-Shlomo Y, Benediktsson R, Bennett AJ, Bergmann S, Bochud M, Boerwinkle E, Bonnefond A, Bonnycastle LL, Borch-Johnsen K, Böttcher Y, Brunner E, Bumpstead SJ, Charpentier G, Chen Y, Chines P, Clarke R, Coin LJM, Cooper MN, Cornelis M, Crawford G, Crisponi L, Day INM, de Geus E, Delplanque J, Dina C, Erdos MR, Fedson AC, Fischer-Rosinsky A, Forouhi NG, Fox CS, Frants R, Franzosi MG, Galan P, Goodarzi MO, Graessler J, Groves CJ, Grundy S, Gwilliam R, Gyllensten U, Hadjadj S, Hallmans G, Hammond N, Han X, Hartikainen A, Hassanali N, Hayward C, Heath SC, Hercberg S, Herder C, Hicks AA, Hillman DR, Hingorani AD, Hofman A, Hui J, Hung J, Isomaa B, Johnson PRV, Jørgensen T, Jula A, Kaakinen M, Kaprio J, Kesaniemi YA, Kivimaki M, Knight B, Koskinen S, Kovacs P, Kyvik KO, Lathrop GM, Lawlor DA, Bacquer OL, Lecoeur C, Li Y, Lyssenko V, Mahley R, Mangino M, Manning AK, Martínez-Larrad MT, McAteer JB, McCulloch LJ, McPherson R, Meisinger C, Melzer D, Meyre D, Mitchell BD, Morken MA, Mukherjee S, Naitza

S, Narisu N, Neville MJ, Oostra BA, Orrù M, Pakyz R, Palmer CNA, Paolisso G, Pattaro C, Pearson D, Peden JF, Pedersen NL, Perola M, Pfeiffer AFH, Pichler I, Polasek O, Posthuma D, Potter SC, Pouta A, Province MA, Psaty BM, Rathmann W, Rayner NW, Rice K, Ripatti S, Rivadeneira F, Roden M, Rolandsson O, Sandbaek A, Sandhu M, Sanna S, Sayer AA, Scheet P, Scott LJ, Seedorf U, Sharp SJ, Shields B, Sigurðsson G, Sijbrands EJG, Silveira A, Simpson L, Singleton A, Smith NL, Sovio U, Swift A, Syddall H, Syvänen A, Tanaka T, Thorand B, Tichet J, Tönjes A, Tuomi T, Uitterlinden AG, van Dijk KW, van Hoek M, Varma D, Visvikis-Siest S, Vitart V, Vogelzangs N, Waeber G, Wagner PJ, Walley A, Walters GB, Ward KL, Watkins H, Weedon MN, Wild SH, Willemsen G, Witteman JCM, Yarnell JWG, Zeggini E, Zelenika D, Zethelius B, Zhai G, Zhao JH, Zillikens MC, DIAGRAM Consortium, GIANT Consortium, Global BPGen Consortium, Borecki IB, Loos RJF, Meneton P, Magnusson PKE, Nathan DM, Williams GH, Hattersley AT, Silander K, Salomaa V, Smith GD, Bornstein SR, Schwarz P, Spranger J, Karpe F, Shuldiner AR, Cooper C, Dedoussis GV, Serrano-Ríos M, Morris AD, Lind L, Palmer LJ, Hu FB, Franks PW, Ebrahim S, Marmot M, Kao WHL, Pankow JS, Sampson MJ, Kuusisto J, Laakso M, Hansen T, Pedersen O, Pramstaller PP, Wichmann HE, Illig T, Rudan I, Wright AF, Stumvoll M, Campbell H, Wilson JF, Hamsten A on behalf of Procardis consortium, Bergman RN, Buchanan TA, Collins FS, Mohlke KL, Tuomilehto J, Valle TT, Altshuler D, Rotter JI, Siscovick DS, Penninx BWJH, Boomsma D, Deloukas P, Spector TD, Frayling TM, Ferrucci L, Kong A, Thorsteinsdottir U, Stefansson K, van Duijn CM, Aulchenko YS, Cao A, Scuteri A, Schlessinger D, Uda M, Ruokonen A, Jarvelin M, Waterworth DM, Vollenweider P, Peltonen L, Mooser V, Abecasis GR, Wareham NJ, Sladek R, Froguel P, Watanabe RM, Meigs JB, Groop L, Boehnke M†, McCarthy MI†, Florez JC† and Barroso I† for the MAGIC investigators. New genetic loci implicated in fasting glucose homeostasis and their impact on type 2 diabetes risk. Nature Genetics 2010; 42(2):105-16. (Correction: Vol 42;5:464)

106. Lundgren V, Isomaa B, Lyssenko V, Laurila E, Korhonen P, Groop L, Tuomi T for the Botnia Study Group. GADA antibody positivity predicts type 2 diabetes in adult population. Diabetes 2010; 59(2):416-22.

105. Cuesta-Muñoz AL*, Tuomi T*, Cobo-Vuilleumier N, Koskela H, Odili S, Stride A, Buettger C, Otonkoski T, Froguel P, Grimsby J, Garcia-Gimeno M, Matschinsky FR. Clinical Heterogeneity in Monogenic Diabetes Caused by Mutations in the Glucokinase Gene (GCK-MODY). Diabetes Care 2010 33:290-292. * shared contribution.

104. Cervin C, Axler O, Holmkvist J, Almgren P, Rantala E, Tuomi T, Groop L, Dahlbäck B, Karlsson E. An investigation of serum concentration of apoM as a MODY3 marker using a novel ELISA. Journal of Internal Medicine, 2010;267:316-321.

103. Voight BF, Scott LJ, Steinthorsdottir V, Morris AP, Dina C, Welch RP, Zeggini E, Huth C, Aulchenko YS, Thorleifsson G, McCulloch LJ, Ferreira T, Grallert H, Amin N, Wu G, Willer CJ, Raychaudhuri S, McCarroll SA, Langenberg C, Hofmann OM, Dupuis J, Qi L, Segre AV, van Hoek M, Navarro P, Ardlie K, Balkau B, Benediktsson R, Bennett AJ, Blagieva R, Boerwinkle E, Bonnycastle LL, Bengtsson Bostrom K, Bravenboer B, Bumpstead S, Burtt NP, Charpentier G, Chines PS, Cornelis M, Couper DJ, Crawford G, Doney AS, Elliott KS, Elliott AL, Erdos MR, Fox CS, Franklin CS, Ganser M, Gieger C, Grarup N, Green T, Griffin S, Groves CJ, Guiducci C, Hadjadj S, Hassanali N, Herder C, Isomaa B, Jackson AU, Johnson PR, Jorgensen T, Kao WH, Klopp N, Kong A, Kraft P, Kuusisto J, Lauritzen T, Li M, Lieverse A, Lindgren CM, Lyssenko V, Marre M, Meitinger T, Midthjell K, Morken MA, Narisu N, Nilsson P, Owen KR, Payne F, Perry JR, Petersen AK, Platou C, Proenca C, Prokopenko I, Rathmann W, Rayner NW, Robertson NR, Rocheleau G, Roden M, Sampson MJ, Saxena R, Shields BM, Shrader P, Sigurdsson G, Sparso T, Strassburger K, Stringham HM, Sun Q, Swift AJ, Thorand B, Tichet J, Tuomi T, van Dam RM, van Haeften TW, van Herpt T, van Vliet-Ostaptchouk JV, Walters GB, Weedon MN, Wijmenga C, Witteman J, Bergman RN, Cauchi S, Collins FS, Gloyn AL, Gyllensten U, Hansen T, Hide WA, Hitman GA, Hofman A, Hunter DJ, Hveem K, Laakso M, Mohlke KL, Morris AD, Palmer CN, Pramstaller PP, Rudan I, Sijbrands E, Stein LD, Tuomilehto J, Uitterlinden A, Walker M, Wareham NJ, Watanabe RM, Abecasis GR, Boehm BO, Campbell H, Daly MJ, Hattersley AT, Hu FB, Meigs JB, Pankow JS, Pedersen O, Wichmann HE, Barroso I, Florez JC, Frayling TM, Groop L, Sladek R, Thorsteinsdottir U, Wilson JF, Illig T, Froguel P, van Duijn CM, Stefansson K, Altshuler D,

Boehnke M, McCarthy MI, MAGIC investigators, GIANT Consortium. Twelve type 2 diabetes susceptibility loci identified through large-scale association analysis. Nature Genetics, 2010; 42(7):579-89. (Correction Vol 43;4:388)
102. Jonsson A, Isomaa B, Tuomi T, Taneera J, Salehi A, Nilsson P, Groop L, Lyssenko V. A variant in the KCNQ1 gene predicts future type 2 diabetes and mediates impaired insulin secretion. Diabetes 2009; 58 (10): 2409-13.
101. Lindgren CM. Heid IM, Randal JC, Lamina C, Steinthorsdottir V, Qi L, Speliotes EK, Thorleifsson G, Willer CJ, Herrera BM, Jackson AU, Lim N, Scheet P, Soranzo N, Amin N, Aulchenko YS, Chambers JC, Drong A, Luan J, Lyon HN, Rivadeneira F, Serena Sanna S, Timpson NJ, Zillikens MC, Zhao JH, Almgren P, Bandinelli S, Bennett AJ, Bergman RN, Bonnycastle LL,Bumpstead SJ, Chanock SJ, Cherkas L, Chines P, Coin L, Cooper C, Crawford G, Doering A, Dominiczak A, Doney ASF, Ebrahim S, Elliott P, Erdos MR, Estrada K, Ferrucci L, Fischer G, Forouhi NG, Gieger C, Grallert H, Groves CJ, Grundy S, Guiducci C, Hadley D, Hamsten A, Havulinna AS, Hofman A, Rolf Holle R, Holloway JW, Illig T, Isomaa B, Jacobs LC, Jameson K, Jousilahti P, Karpe F, Kuusisto J, Laitinen J, Mark Lathrop GM, Lawlor DA, Mangino M, McArdle WL, Meitinger T, Morken MA, Morris AP, Munroe P, Narisu N, Nordström A, Nordström P, Oostra BA, Palmer CNA, Payne F, Peden JF, Prokopenko I , Renström R, Aimo Ruokonen A, Salomaa V, Sandhu MS, Scott LJ, Scuteri A, Silander K, Song K, Yuan X, Stringham HM, Swift AJ, Tuomi T, Uda M, Vollenweider P, Waeber G, Wallace C, Walters GB, Weedon MN, The Wellcome Trust Case Control Consortium, Witteman JCM, Zhang C, Zhang W, Caulfield MJ, Collins FS, Smith GD, Day INM, Franks PW, Hattersley AT, Hu FB, Jarvelin M-J, Kong A, Kooner JS, Laakso M, Lakatta E, Mooser V, Morris AD, Peltonen L, Samani NJ, Spector TD, Strachan DP, Tanaka T, Tuomilehto J, Uitterlinden AG, Van Duijn CM, Wareham NJ, Watkins H (for the PROCARDIS consortia), Waterworth DM, Boehnke M, Deloukas P, Groop L, Hunter DJ, Thorsteinsdottir U, Schlessinger D, Wichmann H-E, Frayling TM, Gonçalo R. Abecasis GR, Hirschhorn JN, Loos RJF, Stefansson K, Mohlke KL, Barroso I, McCarthy M for the GIANT consortium. Genome wide association scan meta-analysis identifies three loci influencing adiposity and fat distribution. PLOS Genetics 2009;5(6):e1000508.
100. Rönn T, Poulsen P, Tuomi T, Isomaa B, Groop L, Vaag A, Ling C. Age influences DNA methylation and gene expression of COX7A1 in human skeletal muscle. Genetic variation in ATP5O is associated with gene expression in skeletal muscle and glucose uptake in young twins. PLOS One 2009; 4: e4793.
99. Willer CJ, Speliotes EK, Loos RJF, Li S, Lindgren CM, Heid IM, Berndt SI, Elliott AL, Jackson AU, Lamina C, Lettre G, Lim N, Lyon HN, McCarroll SA, Papadakis K, Qi L, Randall JC, Roccasecca RM, Sanna S, Scheet P, Weedon MN, Wheeler E, Zhao JH, Jacobs LC, Prokopenko I, Soranzo N, Tanaka T, Timpson NJ, Almgren P, Bennett A, Bergman RN, Bingham SA, Bonnycastle LL, Brown M, Burtt NP, Chines P, Coin L, Collins FC, Connell JM, Cooper C, Smith JD, Dennison EM, Deodhar P, Elliott P, Erdos MR, Estrada K, Evans DM, Gianniny L, Gieger C, Gillson CJ, Guiducci C, Hackett R, Hadley D, Hall AS, Havulinna AS, Hebebrand J, Hofman A, Isomaa B, Jacobs KB, Johnson T, Jousilahti P, Jovanovic Z, Khaw K-T, Kraft P, Kuokkanen M, Kuusisto J, Laitinen J, Lakatta EG, Luan J, Luben RN, Mangino M, McArdle WL, Meitinger T, Mulas A, Munroe PB, Narisu N, Ness AR, Northstone K, O'Rahilly S, Purmann C, Rees MG, Ridderstråle M, Ring SM, Rivadeneira F, Ruokonen A, Sandhu MS, Saramies J, Scott LJ, Scuteri A, Silander K, Sims MA, Song K, Stephens J, Stevens S, Stringham HM, Tung YCL, Valle TT, Van Duijn CM, Vimaleswaran KS, Vollenweider P, Waeber G, Wallace C, Watanabe RM, Waterworth DM, Watkins N, Witteman JCM, Zeggini E, Zhai G, Zillikens MC, Altshuler D, Caulfield MJ, Chanock SJ, Farooqi IS, Ferrucci L, Guralnik JM, Hattersley AT, Hu FB, Jarvelin M-R, Laakso M, Mooser V, Ong KK, Ouwehand WH, Salomaa V, Samani NJ, Spector TD, Tuomi T, Tuomilehto J, Uda M, Uitterlinden AG, Wareham NJ, Deloukas P, Frayling TM, Groop LC, Hayes RB, Hunter DJ, Mohlke KL, Peltonen L, Schlessinger D, Strachan DP, Wichmann H-E, McCarthy MI, Boehnke M, Barroso I, Abecasis GR, Hirschhorn JN for the GIANT Consortium. Six new loci associated with body mass index highlight a neuronal influence on body weight regulation. Nature Genetics 2009; 41:25-34.
98. Abdul-Ghani MA, Lyssenko V, Tuomi T, DeFronzo RA and Groop L: Fasting Versus Post-Load Plasma Glucose Concentration and the Risk for

Future Type 2 Diabetes: Results From The Botnia Study. Diabetes Care, 2009; 32: 281-286.
97. Prokopenko I, Langenberg C, Florez JC, Saxena R, Soranzo N, Thorleifsson G, Ruth J F Loos RJF, Manning AK, Jackson AU, Aulchenko Y, Potter SC, Erdos MR, Sanna S, Hottenga J-J, Wheeler E, Kaakinen M, Lyssenko V, Chen W-M, Ahmadi K, Beckmann JS, Bergman RN, Bochud M, Bonnycastle LL, Buchanan TA, Cao A, Cervino A, Coin L, Collins FS, Crisponi L, de Geus EJC, Dehghan A, Deloukas P, Doney ASF, Elliott P, Freimer N, Gateva V, Herder C, Hofman A, Hughes TE, Hunt S, Illig T, Inouye M, Isomaa B, Johnson T, Kong A, Krestyaninova M, Kuusisto J, Laakso M, Lim N, Lindblad U, Lindgren CM, McCann OT, Mohlke KL, Morris AD, Naitza S, Orrù M, Palmer CNA, Pouta A, Randall J, Rathmann W, Saramies J, Scheet P, Scott LJ, Scuteri A, Sharp S, Sijbrands E, Smit JH, Song K, Steinthorsdottir V, Stringham HM, Tuomi T, Tuomilehto J, Uitterlinden AG, Voight BF, Waterworth D, Wichmann H-E, Willemsen G, Witteman JCM, Yuan X, ZhaoJH, Zeggini E, Schlessinger D, Sandhu M, BoomsmaDI, Uda M, SpectorTD, PenninxBWJH, AltshulerD, VollenweiderP, Jarvelin M-J, LakattaE, WaeberG, FoxCS, Peltonen L, Groop LC, Mooser V, Cupples LA, Thorsteinsdottir U, Boehnke M, Barroso I, Van Duijn C, Dupuis J, Watanabe RN, Stefansson K, McCarthy MI, Wareham NJ, Meigs JB, Abecasis GR. Variants in the melatonin receptor 1B gene (MTNR1B) influence fasting glucose levels and risk of type 2 diabetes. Nature Genetics 2009; 41: 77-81.
96. Lyssenko V, Nagorny CLF, Erdos MR, Wierup N, Jonsson A, Spégel P, Bugliani M, Saxena R, Fex M, Pulizzi N, Isomaa B, Tuomi T, Nilsson P, Kuusisto J, Tuomilehto J, Boehnke M, Altshuler D, Sundler F, Eriksson JG, Jackson AU, Laakso M, Marchetti P, Watanabe RM, Mulder H, Groop L. A common variant in the melatonin receptor gene (MTNR1B) is associated with increased risk of type 2 diabetes and impaired early insulin secretion. Nature Genetics 2009; 41: 82-88.
95. Yasuda K, Miyake K, Horikawa Y, Hara K, Osawa H, Furuta H, Hirota Y, Mori H, Jonsson A, Sato Y, Yamagata K, Hinokio Y,Wang H-e,Tanahashi T, Nakamura N, Oka Y, Iwasaki N, Iwamoto Y, Yamada Y, Seino Y, Maegawa H,Kashiwagi A,Takeda J, Maeda E, Shin HD, Cho YM, Soo Park K, Lee HK, Ng MCY, Ma RCW, So W-Y, Chan J, Lyssenko V, Tuomi T, Nilsson P, Groop L, Kamatani N, Sekine A, Nakamura Y,Yamamoto K, Yoshida T, Tokunaga K, Itakura M, Makino H, Nanjo K, Kadowaki T, Kasuga M. Multistage genome-wide SNP association study revealed KCNQ1 as a novel susceptibility gene for type 2 diabetes mellitus in multiple ethnic groups: a report of the Millennium Genome Project of Japan. Nat Genet 2008; 40; 1092-1097.
94. Lyssenko V, Jonsson A, Almgren P, Pulizzi N, Isomaa B, Tuomi T, Berglund G, Altshuler D, Nilsson P, Groop L. Clinical risk factors, DNA variants and the development of type 2 diabetes. NEJM 2008; 359:2220-32.
93. Lyssenko V, Sjögren M, Almgren P, Anevski D, Orho-Melander M, Tuomi T, Taskinen M-R, Groop L for the Botnia Study Group. Genetic prediction of the metabolic syndrome. Diabetes & Metabolic Syndrome: Clinical Research & Reviews 2008; 2: 245-52.
92. Orho-Melander M, Melander O, Guiducci C, Perez-Martinez P, Corella D, Roos C, Tewhey R, Rieder MJ, Hall J, Abecasis G, Tai ES, Welch C, Arnett DK, Lyssenko V, LindholmE, Saxena R, de Bakker P, Burtt N, Voight BF, Hirschhorn JN, Tucker KL, Hedner T, Tuomi T, Isomaa B, Eriksson K-F, Taskinen M-T, Wahlstrand B, Hughes TE, Parnell LD, Lai C-Q, Berglund G, Peltonen L, Vartiainen E, Jousilahti P, Havulinna AS, Salomaa V, Nilsson P,Groop L, Altshuler D, Ordovas JM, Kathiresan S. A Common Missense Variant in the Glucokinase Regulatory Protein Gene (GCKR) Is Associated with Increased Plasma Triglyceride and C-Reactive Protein but Lower Fasting Glucose Concentrations. Diabetes 2008; 57: 3112-3121.
91. Rönn T, Poulsen P, Hansson O, Holmkvist J, Almgren P, Nilsson P, Tuomi T, Isomaa B, Groop L, Vaag A, Ling C. Age influences DNA methylation and gene expression of COX7A1 in human skeletal muscle. Diabetologia 2008; 51: 1159-68.
90. Holmkvist J, Almgren P, Lyssenko V, Lindgren C M, Eriksson K-F, Isomaa B, Tuomi T, Nilsson P, and Groop L. Common variants in Maturity Onset Diabetes of the Young genes and future risk of type 2 diabetes. Diabetes 2008; 57: 1738-44.
89. Cervin C, Lyssenko V, Bakhtadze E, Lindholm E, Nilsson P, Tuomi T, Cilio CM, Groop L. Genetic similarities between Latent Autoimmune Diabetes

in Adults, type 1 diabetes and type 2 diabetes. Diabetes, 2008; 57: 1433-7.
88. Zeggini E*, Scott LJ*, Saxena R*, Voight B*, Marchini JL, Hu T, de Bakker PIW, Abecasis GR, Almgren P, Andersen G, Ardlie K, Bengtsson Boström K, Bergman RN, Bonnycastle LL, Borch-Johnsen K, Burtt NP, Chen H, Chines P, Daly MJ, Deodhar P, Ding C, Doney ASF, Duren WL, Elliott KS, Erdos MR, Frayling TM, Freathy RM, Gianniny L, Grallert H, Grarup N, Groves CJ, Guiducci C, Hansen T, Herder C, Hitman GA, Hughes TE, Isomaa B, Jackson AU, Jørgensen T, Kong A, Kubalanza K, Lango H, Lauritzen T, Li Y, Lindgren CM, Lyssenko V, Marvelle A, Meisinger C, Midthjell K, Mohlke KL, Morken M, Morris AD, Narisu N, Nilsson P, Owen KR, Palmer CNA, Perry JRB, Pettersen E, Platou C, Prokopenko I, Qin L, Rayner NW, Rees M, Roix J, Sandbæk A, Shields B, Sjögren M, Steinthorsdottir V, Stringham HM, Swift AM, Thorleifsson G, Thorsteinsdottir U, Timpson NJ, Tuomi T, Tuomilehto J, Walker M, Watanabe R, Weedon MN, Willer CJ, Wellcome Trust Case Control Consortium, Illig T, Hveem K, Stefansson K, Pedersen O, Hattersley AT, Collins FS, Groop L, McCarthy MI*, Boehnke M*, Altshuler D * . Meta-analysis of genome-wide association data and large-scale replication identifies several additional susceptibility loci for type 2 diabetes. Nature Genetics 2008; 40: 638-45.
87. Dorkhan M, Tripathy D, Malm G, Asgharian H, Tuomi T, Groop L. Independent measures of insulin secretion and insulin sensitivity during the same test; the glucagon-insulin tolerance (GITT) test. Journal of Internal Medicine 2008; 264: 62-71.
86. Holmkvist J, Tojjar D, Almgren P, Lyssenko V, Lindgren CM, Isomaa B, Tuomi T, Berglund G, Renström E and Groop L: Calcium Channel Voltage-Dependent Alpha-1E Subunit (CACNA1E) gene polymorphisms are associated with type 2 diabetes and impaired insulin secretion. Diabetologia 2007; 50: 2467-2475.
85. The Diabetes Genetics Initiative of Broad Institute of Harvard and MIT, Lund University and Novartis Institutes for Biomedical Researh. Saxena R, Voight BF, Lyssenko V, Burtt NP, de Bakker PI, Chen H, Roix JJ, Kathiresan S, Hirschhorn JN, Daly MJ, Hughes TE, Groop L, Altshuler D, Almgren P, Florez JC, Meyer J, Ardlie K, Bengtsson Boström K, Isomaa B, Lettre G, Lindblad U, Lyon HN, Melander O, Newton-Cheh C, Nilsson P, Orho-Melander M, Råstam L, Speliotes EK, Taskinen MR, Tuomi T, Guiducci C, Berglund A, Carlson J, Gianniny L, Hackett R, Hall L, Holmkvist J, Laurila E, Sjögren M, Sterner M, Surti A, Svensson M, Svensson M, Tewhey R, Blumenstiel B, Parkin M, Defelice M, Barry R, Brodeur W, Camarata J, Chia N, Fava M, Gibbons J, Handsaker B, Healy C, Nguyen K, Gates C, Sougnez C, Gage D, Nizzari M, Gabriel SB, Chirn GW, Ma Q, Parikh H, Richardson D, Ricke D, Purcell S. Genome-wide association analysis identifies loci for type 2 diabetes and triglyceride levels. Science 2007; 316(5829):1331-1336.
84. Lyon HN, Emilsson V, Hinney A, Heid IM, Lasky-Su J, Zhu X, Thorleifsson G, Gunnarsdottir S, Walters GB, Thorsteinsdottir U, Kong A, Gulcher J, Nguyen TT, Scherag A, Pfeufer A, Meitinger T, Brönner G, Rief W, Soto-quiros ME, Avila L, Klanderman B, Raby BA, Silverman EK, Weiss ST, Laird N, Ding X, Groop L, Tuomi T, Isomaa B, Bengtsson K, Butler JL, Cooper RS, Fox CS, O-Donnell CJ, Vollmert C, Celedon JC, Wichmann HE, Hebebrand J, Stefansson K, Lange C, Hirschhorn J. The association of a SNP upstream of INSIG2 with Body Massa Index is reproduced in several but not all cohorts. PLOS Genetics, 2007 Apr 27;3(4):e61.
83. Campbell CD, Lyon HN, Nemesh J, Drake JA, Tuomi T, Gaudet D, Zhu X, Cooper RS, Ardlie KG, Groop LC, Hirschhorm JN. Association studies of body-mass index and type 2 diabetes in the neuropeptide Y pathway: a possible role for NPY2R as a candidate gene for type 2 diabetes in men. Diabetes 2007; 56: 1460-67.
82. Florez JC, Sjögren M, Agapakis CM, Burtt NP, Almgren P, Lindblad U, Berglund G, Tuomi T, Gaudet D, Daly MJ, Ardlie KG, Hirschhorn JN, Altshuler D, Groop L. Association testing of common variants in the insulin receptor substrate-1 gene (IRS1) with type 2 diabetes. Diabetologia 2007; 50: 1209-1217.
81. Lyssenko V, Lupi R, Marchetti P, Del Guerra S, Orho-Melander M, Almgren P, Sjögren M, Ling C, Eriksson, K-F, Lethagen Å-L, Mancarella R, Berglund G, Tuomi T, Nilsson P, DelPrato S, Groop L. Mechanisms by which common variants in the TCF7L2 gene increase risk of type 2 diabetes. J Clin Invest 2007; 117: 2155-63.

80. Winckler W, Weedon MN, Graham R, McCarroll SA, Purcell S, Almgren P, Tuomi T, Gaudet D, Bengtsson Boström K, Walker M, Hitman G, Hattersley AT, McCarthy M, Ardlie KG, Hirschhorn JN, Daly MJ, Frayling TM, Groop L, Altshuler D. Evaluation of common variation in the six known MODY genes for association with type 2 diabetes. Diabetes 2007; 56; 685-93.
79. Liljeström B, Tuomi T, Isomaa B, Sarelin L, Aktan-Collan K, Kääriäinen H. Adolescents at risk for MODY3 diabetes prefer genetic testing before adulthood. Diabetes Care, 2007; 30: 1571-3.
78. Lyon HN, Florez JC, Bersaglieri T, Saxena R, Winckler W, Almgren P, Lindblad U, Tuomi T, Gaudet D, Zhu X, Cooper R, Ardlie KG, Daly MJ, Altshuler D, Groop L, Hirschhorn JN. Common variants in the enpp1 gene are not reproducibly associated with diabetes or obesity. Diabetes 2006; 55: 3180-84.
77. Florez JC, Saxena R, Winckler W, Burtt NP, Almgren P, Bengtsson Boström K, Tuomi T, Gaudet D, Ardlie KG, Daly MJ, Altshuler D, Hirschhorn JN, Groop LC. The KLF11 q62r polymorphism is not associated with type 2 diabetes in 8,676 people. Diabetes 2006; 55: 3620-24.
76. Holmkvist J, Cervin C, Lyssenko V Winckler W, Anevski D, Cilio C, Almgren P, Berglund G, Nilsson P, Tuomi T, Lindgren CM, Altshuler D, Groop L. Common variants in the HNF1 alpha and risk of type 2 diabetes. Diabetologia 2006; 49: 2882-2891.
75. Saxena R, Gianniny L, Burtt NP, Lyssenko V, Giuducci C, Sjögren M, Florez JC, Almgren P, Isomaa B, Orho-Melander M, Lindblad U, Daly M, Tuomi T, Hirschhorn J, Ardlie K, Groop L, Altshuler D. Common SNPs in TCF7L2 are reproducibly associated with type 2 diabetes and reduce the insulin response to glucose in non-diabetic individuals. Diabetes 2006; 55: 2890-5.
74. Sun, MW, Lee JY, de Bakker PIW, Burtt NP, Almgren P, Råstam L, Tuomi T, Gaudet D, Daly MJ, Hirschhorn JN, Altshuler D, Groop L, Florez JC. Haplotype structures and association testing of the 5' AMP-activated protein kinase (AMPK) genes PRKAA2, PRKAB1 and PRKAB2 with type 2 diabetes in 4,206 people. Diabetes 2006; 55: 849-855.
73. Rönnback M, Isomaa B, Fagerudd J, Forsblom C, Groop P-H, Tuomi T, Groop L, for the Botnia Study Group. Complex Relationship between Blood Pressure and Mortality in Type 2 Diabetic Patients: A Follow-up of the Botnia Study. Hypertension 2006; 47: 168-173.
72. Tuomi T, Honkanen EH, Isomaa B, Sarelin L, Groop LC. Improved prandial glucose control with lower risk of hypoglycemia with nateglinide than with glibenclamide in patients with Maturity-Onset Diabetes of the Young Type 3. Diabetes Care 2006; 29: 189-194.
71. Florez JC, Wiltshire S, Agapakis CM, Burtt NP, de Bakker PIW, Almgren P, Bengtsson Boström K, Tuomi T, Gaudet D, Daly MJ, Hirschhorn JN, McCarthy MI, Altshuler D, Groop LC. High-density haplotype structure and association testing of the insulin-degrading enzyme (IDE) gene with type 2 diabetes in 4,206 people. Diabetes 2006; 55: 128-135.
70. Winckler W, Burtt NP, Holmkvist J, Cervin C, de Bakker PIW, Sun M, Almgren P, Tuomi T, Gaudet D, Hudson TJ, Ardlie KG, Daly MJ, Hirschhorn JN, Altshuler D, Groop L. Association of common variation in the HNF1a gene region with risk of type 2 diabetes. Diabetes 2005; 54: 2336-2342.
69. Lyssenko V, Almgren P, Anevski D, Orho-Melander M, Sjögren M, Saloranta C, Tuomi T, Groop L for the Botnia Study Group. Genetic prediction of future Type 2 diabetes. PLOS Medicine 2005; 2: e345.
68. Sammalisto S, Hiekkalinna T, Suviolahti E, Sood K, Metzidis A, Pajukanta P, Lilja HE, Soro-Paavonen A, Taskinen M-R, Tuomi T, Almgren P, Orho-Melander M, Groop L, Peltonen L, Perola M. A Male-specific QTL on 1p21 controlling Human Stature. Journal of Medical Genetics 2005; 42: 932-939.
67. Florez J, Agapakis CM, Burtt NP, Sun M, Almgren P, Råstam L, Tuomi T, Gaudet D, Hudson TJ, Daly MJ, Ardlie KG, Hirschhorn JN, Groop L. and David Altshuler. Association testing of the protein tyrosine phosphatase 1b gene (PTPN1) with type 2 diabetes in 7,883 people. Diabetes 2005; 54: 1884-1891.
66. Winckler W, Graham RR, de Bakker PIW, Sun M, Syn M, Almgren P, Tuomi T, Gaudet D, Hudson TJ, Ardlie KG, Daly MJ, Hirschhorn JN, Groop L and Altshuler D. Association Testing of Variants in the Hepatocyte Nuclear Factor 4α Hene With Risk of Type 2 Diabetes in 7,883 People. Diabetes 2005; 54:886-892.
65. Liljeström B, Akthan-Collan K, Isomaa B, Sarelin L, Uutela A, Groop L,

Kaariainen H, Tuomi T. Genetic testing for MODY: uptake, attitude and comparison with hereditary non-polyposis colorectal cancer. Diabetologia 2005; 48(2):242-50.
64. Lyssenko V, Almgren P, Anevski D, Perfekt R, Lahti K, Isomaa B, Forsen B, Nissén M, Homström N, Saloranta C, Taskinen M-R, Groop L and Tuomi T. Predictors and longitudinal changes in insulin sensitivity and secretion preceding onset of type 2 diabetes. Diabetes 2005; 54:166-174.
63. Tripathy D, Almgren P, Tuomi T, Groop L: Contribution of Insulin-Stimulated Glucose Uptake and Basal Hepatic Insulin Sensitivity to Surrogate Measures of Insulin Sensitivity. Diabetes Care 2004; 27:2204-2210.
62. Florez J, Sjögren M, Burtt N, Orho-Melander M, Schaye S, Sun M, Almgren P, Tuomi T, Gaudet D, Hudson TJ, Daly MJ, Ardlie KG, Hirschhorn JN, Altshuler D, Groop L. Association testing in 9000 people fails to confirm the association of the insulin receptor substrate-1 G972R polymorphism with type 2 diabetes. Diabetes 2004; 53: 3313-3318.
61. Cervin C, Liljeström B, Tuomi T, Heikkinen S, Tapanainen JS, Groop L, Cilio CM. Co-segregation of MIDD and MODY in a pedigree: functional and clinical consequences. Diabetes 2004; 53:1894-1899.
60. Enattah NS, Forsblom C, Rasinperä H, Tuomi T, Groop P-H, Järvelä I, and the Finn Diane Study Group. The genetic variant of lse persistence C(-13910) T as a risk factor for type 1 and 2 diabetes in the Finnish population. Eur J Clin Nutrition, 2004; 58: 1319-1322.
59. Florez JC, Burtt N, de Bakker PIW, Almgren P, Tuomi T, Holmkvist J, Gaudet D, Hudson TJ, Schaffner SF, Daly MJ, Hirschhorn JN, Groop L, David Altshuler D. Haplotype structure and genotype-phenotype correlations of the sulfonylurea receptor (SUR1) and the islet ATP-sensitive potassium channel (KIR6.2) gene region. Diabetes 2004; 53: 1360-1368.
58. Söderbergh A, Myhre AG, Ekwall O, Gebre-Medhin G, Hedstrand H, Landgren E, Miettinen A, Eskelin P, Halonen M, Tuomi T, Gustafsson J, Husebye ES, Perheentupa J, Gylling M, Manns MP, Rorsman F, Kämpe O, Nilsson T. Prevalence and clinical associations of ten defined autoantibodies in Autoimmune Polyendocrine Syndrome Type I. Journal of Clinical Endocrinology and Metabolism 2004; 89: 557-562.
57. Suviolahti E, Oksanen L, Öhman M, Cantor RM, Ridderstråle M, Tuomi T, Kaprio J, Rissanen A, Mustajoki P, Jousilahti P, Vartiainen E, Silander K, Kilpikari R, Salomaa V, Groop L, Kontula K, Peltonen L, Pajukanta P. The SLC6A14 Gene Shows Evidence for Association with Obesity. J Clin Invest, 2003; 112: 1762-1772.
56. Tripathy D, Lindholm E, Isomaa B, Saloranta C, Almgren P, Tuomi T, Groop L. Familiality of metabolic abnormalities is dependent on age at onset and phenotype of the type 2 diabetic proband, Am J Physiol Endocrinol Metab 2003; 285: E1297-E1303.
55. Demenais F, T Kanninen, CM Lindgren, S Withshire, S Gaget, C Dandrieux, P Almgren, M Sjögren, A Hattersley, C Dina, Tuomi T, McCarthy MI, Mvaxillaire, P Froguel and L Groop. A meta-analysis of four European genome screens (GIFT Consortium) shows evidence for a novel region on chromosome 17p11.2-q22 linked to type 2 diabetes. Human Molecular Genetics 2003; 12:1865-173.
54. Frayling TM, Lindgren CM, Chevre JC, Menzel S, Wishart M, Benmezroua Y, Brown A, Evans JC, Subba Rao P, Dina C, Lecoeur C, Kanninen T, Almgren P, Bulman MP, Wang Y, Mills J, Wright-Pascoe R, Mahtani MM, Prosco F, Costa A, Cognet I, Hansen T, Pedersen O, Ellard S, Tuomi T, Groop LC, Froguel P, Hattersley AT and Vaxillaire M: A Genome-Wide Scan in Families With Maturity-Onset Diabetes of the Young: Evidence for Further Genetic Heterogeneity. Diabetes 2003; 52:872-881.
53. Li H, Groop L, Nilsson A, Weng J, Tuomi T. A combination of HLA DQB1*02 and the TNFa promoter G308A polymorphism predisposes to a type 1 diabetes like phenotype in patients with type 2 diabetes. J Clin Endocr Metab 2003; 88: 2767-2774.
52. Tripathy D, Wessman Y, Gullström M, Tuomi T, Groop L. The importance of obtaining independent measures of insulin secretion and insulin sensitivity during the same test: results with the Botnia clamp. Diabetes Care 2003; 1395-1401.
51. Lindholm E, Agardh E, Tuomi T, Groop L, Agardh C-D. Classifying diabetes according to the new WHO clinical stages. Eur J Epidem 2002; 17: 983-989.

50. Mitchell SMS, Vaxillaire M, Thomas H, Parrizas M, Benmezroua Y, Costa A, Hansen T, Owen K, Tuomi T, Pirie F, Ryffel GU, Ferrer J, Froguel P, Hattersley AT, Frayling TM. Rare variants identified in the HNF-1β-cell specific promoter and alternative exon 1 lack biological significance in Maturity onset diabetes of the young and type 2 diabetes. Diabetologia 2002; 45: 1344-1348.
49. Antonelli A, Tuomi T, Nannipieri M, Fallahi P, Nesti C, Pupilli C, Okamoto H, Groop L, Ferrannini E: Autoimmunity to CD38 and GAD in type 2 and type 1 diabetes: CD38 and HLA genotypes and clinical phenotypes. Diabetologia 2002; 45: 1298-1306.
48. Lindgren C, Widén E, Tuomi T, Li H, Melander O, Lehto M, Weng J, Almgren P, Groop L: Contribution of known and unknown susceptibility genes to early-onset diabetes in Scandinavia - evidence for heterogeneity. Diabetes 2002: 51:1609-1617.
47. Lethagen ÅL, Ericsson U-B, Hallengren B, Groop L, Tuomi T. Glutamic acid decarboxylase antibody positivity is associated with an impaired insulin response to glucose and arginine in nondiabetic patients with autoimmune thyroiditis. J Clin End Metab, 2002; 87:1177-1183.
46. Stride A, Vaxillaire M, Tuomi T, Barbetti F, Njølstad PR, Hansen T, Costa A, Conget I, Pedersen O, Søvik O, Lorini R, Groop L, Froguel P, Hattersley AT for The GIFT MODY Consortium. The genetic abnormality in the beta-cell determines the response to an oral glucose load. Diabetologia 2002; 45:427-435.
45. Lindgren CM, Mahtani MM, Widén E, McCarthy M, Daly MJ, Kirby A, Reeve MP, Kruglyak L, Parker A, Meyer J, Almgren P, Lehto M, Kanninen T, Tuomi T, Groop LC, Lander AS. Genomewide search for type 2 diabetes mellitus susceptibility loci in Finnish families: The Botnia Study. Am J Hum Gen 2002; 70: 509-516.
44. Isomaa B, Henricsson M, Almgren P, Tuomi T, Taskinen M-R, Groop L. The metabolic syndrome influences the risk of chronic complications in patients with type 2 diabetes. Diabetologia, 2001; 44: 1148-1154.
43. Agardh D, Nilsson A, Tuomi T, Lindberg B, Carlsson A, Lernmark Å, Ivarsson S-A. Prediction of silent celiac disease at diagnosis of childhood type 1 diabetes by tissue transglutaminase autoantibodies and HLA. Pediatric Diabetes 2001; 2: 58-65.
42. Isomaa B, Almgren P, Tuomi T, Forsblom C, Forsén B, Lahti K, Snickars B, Nissén M, Taskinen M-R, Groop L: Cardiovascular morbidity and mortality associated with the metabolic syndrome. Diabetes Care 2001; 24: 683-689.
41. Li H, Lindholm E, Almgren P, Gustafsson Å, Forsblom C, Groop L, Tuomi T. Possible HLA-defined genetic interaction between type 1 and type 2 diabetes. J Clin Endocrinol Metab 2001; 86: 574-582.
40. Gylling M, Tuomi T, Björses P, Kontiainen S, Partanen J, Christie M, Perheentupa J, Miettinen A. b-cell autoantibodies, HLA II alleles and Type 1 diabetes in patients with Autoimmune Polyendocrinopathy- Candidiasis - Ectodermal Dystrophy (APECED). J Clin End Metab 2000; 85: 4434-4440.
39. Tripathy D, Carlsson Å-L, Lehto M, Isomaa B, Tuomi T, Groop L: Insulin secretion and insulin sensitivity in diabetic subgroups: studies in the prediabetic and diabetic state. Diabetologia 2000; 43: 1476-1483.
38. Altshuler D, Hirschhorn JN, Klannemark M, Lindgren C, Daly M, Vohl M-C, Nemesh J, Lane C, Schaffner SF, Bolk S, Brewer C, Tuomi T, Gaudet D, Hudson TJ, Groop L, Lander ES: The common PPARg Pro12Ala polymorphism is associated with decreased risk of type 2 diabetes. Nature Genetics 2000; 26; 76-80.
37. Li H, Isomaa B, Taskinen M-R, Groop L, Tuomi T. Consequences of a family history of type 1 and type 2 diabetes on the phenotype of patients with type 2 diabetes. Diabetes Care 2000; 23: 589-594.
36. Klemetti P, Björses P, Tuomi T, Perheentupa J, Partanen J, Rautonen, N Hinkkanen A, Ilonen J, Vaarala O. Autoimmunity to glutamic acid decarboxylase in patients with autoimmune polyendocrinopathy – candidiasis – ectodermal dystrophy (APECED). Clin Exp Immunol 2000; 119: 419-25.
35. Tripathy D, Carlsson M, Almgren P, Isomaa B, Taskinen M-R, Tuomi T, Groop LC: Insulin secretion and insulin sensitivity in relation to glucose tolerance: Lessons from the Botnia Study. Diabetes 2000; 49: 975-80.
34. Carlsson ÅL, Sundkvist G, Groop L, Tuomi T. Insulin and glucagon secretion in patients with slowly progressing autoimmune diabetes (LADA). J Clin Endocr Metab 2000; 85: 76-80.

33. Bützow T, Moilanen J, Lehtovirta M, Tuomi T, Hovatta O, Siegberg R, Nilsson G-G, Apter D. Serum and follicular fluid leptin during in vitro fertilization – relationship between leptin increase, body fat mass and reduced ovarian response. J Clin Endocr Metab 1999; 84:3135-9.
32. Lehto M, Wipemo C, Bitzén P-O, Ivarsson S-A, Lindgren C, Lipsanen-Nyman M, Majamaa K, Weng J, Widén E, Tuomi T, Groop L High frequency of mutations in MODY and mitochondrial genes in Scandinavian patients with familial early-onset diabetes. Diabetologia 1999; 42:1131-7.
31. Isomaa B, Almgren P, Henricsson M, Tuomi T, Taskinen M, Groop L, Sarelin L. Chronic complications in patients with slowly progressing autoimmune type 1 diabetes (LADA). Diabetes Care 1999; 22: 1347-53.
30. Lehto M, Bitzén P-O, Isomaa B, Wipemo C, Wessman Y, Forsblom C, Tuomi T, Taskinen M, Groop L. Mutations in the HNF-4a gene affect insulin secretion and triglyceride metabolism. Diabetes 1999; 48: 423-5.
29. Tuomi T, Carlsson ÅL, Li H, Isomaa B, Miettinen A, Nilsson A, Nissén M, Ehrnström B-O, Forsén B, Snickars B, Lahti K, Forsblom C, Saloranta C, Taskinen M, Groop LC. Clinical and genetic characteristics of Type 2 diabetes with and without GAD antibodies. Diabetes 1999; 48: 150-7.
28. Glucksmann MA, Lehto M, Tayber O, Scotti S, Berkemeier L, Pulido JC, Wu Y, Nir W-J, Fang L, Markel P, Munnelly KD, Goranson J, Orho M, Young BM, Whitacre JL, McMenimen C, Wantman M, Tuomi T, Warram J, Forsblom CM, Carlsson M, Rosenzweig J, Kennedy G, Duyk GM, Krolewski AS, Groop LC, Thomas JD. Novel mutations and a mutational hotspot in the MODY3 gene. Diabetes 1997; 46: 1081-6.
27. Lehto M, Tuomi T, Mahtani MM, Widen E, Forsblom C, Sarelin L, Gullström M, Isomaa B, Lehtovirta M, Hyrkkö A, Kanninen T, Orho M, Manley S, Turner RC, Brettin T, Kirby A, Thomas J, Duyk G, Lander E, Taskinen M, Groop L. Characterization of the MODY3 phenotype. Early-onset diabetes caused by an insulin secretion defect. J Clin Invest 1997; 99:582-91.
26. Husebye E, Gebre-Medhin G, Tuomi T, Perheentupa J, Landin-Olsson M, Gustafsson J, Rorsman F, Kämpe O. Autoantibodies against aromatic L-amino acid decarboxylase in Autoimmune Polyendocrine Syndrome Type 1. J Clin Endocr Metab 1997; 82: 147-50.
25. Scheinin T, Nhu-Nguyen TM, Tuomi T, Miettinen A, Kontiainen S. Islet cell and glutamic acid decarboxylase antibodies and heat-shock protein 65 responses in children with newly diagnosed insulin-dependent diabetes mellitus. Immunol Lett. 1996; 49:123-126.
24. Rowley MJ, Chen Q-Y, Teoh KL, Zimmet PZ, Tuomi T, Knowles WJ, Mackay IR. Diabetic sera react with the glutamic acid decarboxylase in a dimeric-oligomeric form. Clin Exp Immunol 1996; 106:323-8.
23. Mackay IR, Bone A, Tuomi T, Elliott R, Mandel T, Karopoulos C, Rowley MJ. Lack of autoimmune serological reactions in rodent models of insulin dependent diabetes mellitus. J Autoimmunity, 1996;9:705-11.
22. Groop L, Forsblom C, Lehtovirta M, Tuomi T, Nissen M, Ehrnström B, Forsen B, Isomaa B, Snickars B, Taskinen M. Metabolic consequences of a family history of NIDDM (The Botnia Study). Diabetes 1996; 45: 1585-93.
21. Tuomi T, Björses P, Falorni A, Partanen J, Perheentupa J, Lernmark Å, Aaro Miettinen. Antibodies to glutamic acid decarboxylase and insulin-dependent diabetes in patients with APS1 (Autoimmune Polyendocrine Syndrome Type 1). J Clin Endocr Metab 1996; 81: 1488-94.
20. Niskanen LK, Tuomi T, Karjalainen J, Groop LC, Uusitupa MIJ. GAD-antibodies in non-insulin-dependent diabetes - ten-year follow-up from the diagnosis. Diabetes Care 1995; 18: 1557-65.
19. Tuomi T, Zimmet P, Rowley MJ, Min HK, Vichayanrat A, Lee HK, Rhee BD, Vannasaeng S, Humphrey ARG, Mackay IR. Differing frequency of autoantibodies to glutamic acid decarboxylase among Koreans, Thais, and Australians with diabetes mellitus. Clin Immunol Immunopathol 1995; 74: 202-6.
18. Jauhiainen T, Tuomi T, Leinonen M, Kark JD, Saikku P. Interference of immunoglobulin G (IgG) antibodies in IgA determinations of Chlamydia pneumoniae by microimmunofluorescence test. J Clin Microbiol 1994; 32:839-40.
17. Zimmet PZ, Elliott RB, Mackay IR, Tuomi T, Rowley MJ, Pilcher CC, Knowles WJ. Autoantibodies to glutamic acid decarboxylase and insulin in islet cell antibody positive presymptomatic Type 1 diabetes mellitus: frequency and segregation by age and gender. Diabetic medicine 1994; 10:

866-71.
16. Zimmet PZ, Tuomi T, Mackay IR, Rowley MJ, Knowles W, Cohen M, Lang A. Latent autoimmune diabetes mellitus in adults (LADA): the role of antibodies to glutamic acid decarboxylase in diagnosis and prediction of insulin dependency. Diabetic Medicine 1994; 11: 299-303.
15. Banerji MA, Chaiken R, Huey H, Tuomi T, Norin AJ, Mackay IR, Rowley MJ, Zimmet PZ, Lebovitz HE. GAD antibody negative NIDDM in adult black subjects with diabetic ketoacidosis and increased frequency of HLA DR3 and DR4. Flatbush diabetes. Diabetes 1994; 43: 741-5.
14. Tuomi T, Rowley MJ, Knowles W, Chen Q, McAnally T, Zimmet PZ, Mackay IR. Autoantigenic properties of native and denatured glutamic acid decarboxylase: evidence for a conformational epitope. J Immunol Immunopathol 1994; 71: 53-9.
13. Chen Q, Byrne GC, Jones T, Tuomi T, Mackay IR, Rowley MJ, Knowles WJ, Zimmet PZ. Antibodies to glutamic acid decarboxylase in Australian children with insulin dependent diabetes mellitus and their first degree relatives. Pediatric Research 1993; 34: 785-90.
12. Serjeantson SW, Court J, Mackay IR, Matheson B, Rowley MJ, Tuomi T, Wilson JD, Zimmet P. HLA-DQ genotypes are associated with autoimmunity to glutamic acid decarboxylase in insulin-dependent diabetes mellitus patients. Human Immunology 1993; 38: 97- 104.
11. Tuomi T, Groop LC, Zimmet PZ, Rowley MJ, Knowles W, Mackay IR. Antibodies to glutamic acid decarboxylase reveal latent autoimmune diabetes mellitus in adults with a non-insulin dependent onset of disease. Diabetes 1993; 42: 359-62.
10. Ailus K, Melamies L, Tuomi T, Palosuo T, Aho K. Measuring rheumatoid factors in nonrheumatoid subjects: immunoturbidimetric assay, latec slide test and enzyme-linked immunosorbent assay compared. Clin Chem 1991; 37: 1766-9.
9. Aho K, Heliövaara M, Maatela J, Tuomi T, Palosuo T. Rheumatoid factors antedating clinical rheumatoid arthritis. J Rheumatol 1991; 8: 1282-4.
8. Tuomi T, Heliövaara M, Palosuo T, Aho K. Smoking, lung function and rheumatoid factors. Ann Rheum Dis 1990; 49: 753-6.
7. Tuomi T. Which antigen to use in the detection of rheumatoid factors? Comparison of patients with rheumatoid arthritis and subjects with "false positive" rheumatoid factor reactions. Clin Exp Immunol 1989;77: 349-55.
6. Aho K, Tuomi T, Palosuo T, Kaarela K, von Essen R, Isomäki H. Is seropositive rheumatoid arthritis becoming less severe? Clin Exp Rheumatol 1989; 7: 287-90.
5. Aho K, Tuomi T, Heliövaara M, Palosuo T. Rheumatoid factors and rheumatoid arthritis. Scand J Rhaumatol; Suppl. 1989;74: 41-4.
4. Aho K, Tuomi T, Heinonen A, Heliövaara M, Palosuo T. Rheumatoid factor isotypes in patients with rheumatoid arthritis and in subjects with "false positive" reactions. Scand J Rheumatol 1988; Suppl. 75: 209-12.
3. Tuomi T, Aho K, Palosuo T, Kaarela K, von Essen R, Isomäki H. Seronegative arthritis in an eight-year longitudinal study on arthritis. Scand J Rheumatol 1988; Suppl.67:67-9.
2. Tuomi T, Aho K, Palosuo T, Kaarela K, von Essen R, Isomäki H, Leirisalo-Repo M, Sarna S. Significance of rheumatoid factors in an eight-year longitudinal study on arthritis. Rheumatol Int 1988; 8: 21-6.
1. Tuomi T, Palosuo T, Aho K. The distribution of class-specific rheumatoid factors is similar in rheumatoid and pre-illness sera. Scand J Immunol 1986: 751-4.

Consortium publications:

97. Martiskainen H, Willman RM, Harju P, Heikkinen S, Heiskanen M, Müller SA, Sinisalo R, Takalo M, Mäkinen P, Kuulasmaa T, Pekkala V, Galván Del Rey A, Juopperi SP, Jeskanen H, Kervinen I, Saastamoinen K; FinnGen (including Tuomi T); Niiranen M, Heikkinen SV, Kurki MI, Marttila J, Mäkinen PI, Rostalski H, Hietanen T, Ngandu T, Lehtisalo J, Bellenguez C, Lambert JC, Haass C, Rinne J, Hakumäki J, Rauramaa T, Krüger J, Soininen H, Haapasalo A, Lichtenthaler SF, Leinonen V, Solje E, Hiltunen M. Monoallelic TYROBP deletion is a novel risk factor for Alzheimer's disease. Mol Neurodegener. 2025 Apr 29;20(1):50. doi: 10.1186/s13024-025-00830-3.

96. Eghtedarian R, Tervi AM, Jones SE; FinnGen (including Tuomi T); Partinen M, Viippola E, Ollila HM. Narcolepsy as a potential risk factor for Schizophrenia. Transl Psychiatry. 2025 Feb 17;15(1):55. doi: 10.1038/s41398-025-03259-w.
95. Koskimäki F, Ahokas O, Kajanne R, Saviauk KR, Elnahas A, Reigo A, Reis K, Esko T, Palta P, Leinonen S, Kettunen J, Liinamaa J, Karjalainen MK, Saarela V; Estonian Biobank Research Team Consortium; FinnGen Consortium (including Tuomi T); Estonian Biobank Research Team Consortium authors. Genome-wide association study of anterior uveitis. Br J Ophthalmol. 2024 Dec 27:bjo-2024-326037. doi: 10.1136/bjo-2024-326037.
94. Allara E, Bell S, Smith R, Keene SJ, Gill D, Gaziano L, Morselli Gysi D, Wang F, Tragante V, Mason A, Karthikeyan S, Lumbers RT, Bonglack E, Ouwehand W, Roberts DJ, Dowsett J, Ostrowski SR, Larsen MH, Ullum H, Pedersen OB, Brunak S, Banasik K, Erikstrup C; DBDS Genomic Consortium; Mitchell J, Fuchsberger C, Pattaro C, Pramstaller PP, Girelli D, Arvas M, Toivonen J, Molnos S, Peters A, Polasek O, Rudan I, Hayward C, McDonnell C, Pirastu N, Wilson JF, van den Hurk K, Quee F, Ferrucci L, Bandinelli S, Tanaka T, Girotto G, Concas MP, Pecori A, Verweij N, van der Harst P, van de Vegte YJ, Kiemeney LA, Sweep FC, Galesloot TE, Sulem P, Gudbjartsson D, Ferkingstad E; FinnGen Consortium (including Tuomi T); Djousse L, Cho K, Inouye M, Burgess S, Benyamin B, Oexle K, Swinkels D, Stefansson K, Magnusson M, Ganna A, Gaziano M, Ivey K, Danesh J, Pereira A, Wood AM, Butterworth AS, Di Angelantonio E. Novel loci and biomedical consequences of iron homoeostasis variation. Commun Biol. 2024 Dec 6;7(1):1631. doi: 10.1038/s42003-024-07115-3.
93. Salo V, Määttä J, Sliz E; FinnGen (including Tuomi T); Reimann E, Mägi R; Estonian Biobank Research Team; Reis K, Elhanas AG, Reigo A, Palta P, Esko T, Karppinen J, Kettunen J. Genome-wide meta-analysis conducted in three large biobanks expands the genetic landscape of lumbar disc herniations. Nat Commun. 2024 Nov 7;15(1):9424. doi: 10.1038/s41467-024-53467-z.
92. Pasanen A, Karjalainen MK, Korppi M, Hallman M, Rämet M; Research Project FinnGen (including Tuomi T.). Genetic susceptibility to acute viral bronchiolitis. J Infect Dis. 2024 Sep 20:jiae467. doi: 10.1093/infdis/jiae467.
91. Vuoksimaa E, Saari TT, Aaltonen A, Aaltonen S, Herukka SK, Iso-Markku P, Kokkola T, Kyttälä A, Kärkkäinen S, Liedes H, Ollikainen M, Palviainen T, Ruotsalainen I, Toivola A, Urjansson M, Vasankari T, Vähä-Ypyä H, Forsberg MM, Hiltunen M, Jalanko A, Kälviäinen R, Kuopio T, Lähteenmäki J, Nyberg P, Männikkö M, Serpi R, Siltanen S, Palotie A, Kaprio J, Runz H, Julkunen V; FinnGen (including Tuomi T); TWINGEN: protocol for an observational clinical biobank recall and biomarker cohort study to identify Finnish individuals with high risk of Alzheimer's disease. BMJ Open. 2024 Jun 12;14(6):e081947. doi: 10.1136/bmjopen-2023-081947.
90. Felton JL, Redondo MJ, Oram RA, Speake C, Long SA, Onengut-Gumuscu S, Rich SS, Monaco GSF, Harris-Kawano A, Perez D, Saeed Z, Hoag B, Jain R, Evans-Molina C, DiMeglio LA, Ismail HM, Dabelea D, Johnson RK, Urazbayeva M, Wentworth JM, Griffin KJ, Sims EK; ADA/EASD PMDI (including Tuomi T). Islet autoantibodies as precision diagnostic tools to characterize heterogeneity in type 1 diabetes: a systematic review. Commun Med (Lond). 2024 Apr 6;4(1):66. doi: 10.1038/s43856-024-00478-y.
89. Takele WW, Vesco KK, Josefson J, Redman LM, Hannah W, Bonham MP, Chen M, Chivers SC, Fawcett AJ, Grieger JA, Habibi N, Leung GKW, Liu K, Mekonnen EG, Pathirana M, Quinteros A, Taylor R, Ukke GG, Zhou SJ; ADA/EASD PMDI (including Tuomi T); Lim S. Effective interventions in preventing gestational diabetes mellitus: A systematic review and meta-analysis. Commun Med (Lond). 2024 Apr 20;4(1):75. doi: 10.1038/s43856-024-00491-1.
88. Mars N, Kerminen S, Tamlander M, Pirinen M, Jakkula E, Aaltonen K, Meretoja T, Heinävaara S, Widén E, Ripatti S; FinnGen (including Tuomi T.). Comprehensive Inherited Risk Estimation for Risk-Based Breast Cancer Screening in Women. J Clin Oncol. 2024 May 1;42(13):1477-1487.
87. Suzuki K, Hatzikotoulas K, Southam L, Taylor HJ, Yin X, Lorenz KM, Mandla R, Huerta-Chagoya A, Rayner NW, Bocher O, Ana Luiza de SVA, Sonehara K, Namba S, Lee SSK, Preuss MH, Petty LE, Schroeder P, Vanderwerff B, Kals M, Bragg F, Lin K, Guo X, Zhang W, Yao J, Kim YJ, Graff M, Takeuchi F, Nano J, Lamri A, Nakatochi M, Moon S, Scott RA, Cook JP, Lee

JJ, Pan I, Taliun D, Parra EJ, Chai JF, Bielak LF, Tabara Y, Hai Y, Thorleifsson G, Grarup N, Sofer T, Wuttke M, Sarnowski C, Gieger C, Nousome D, Trompet S, Kwak SH, Long J, Sun M, Tong L, Chen WM, Nongmaithem SS, Noordam R, Lim VJY, Tam CHT, Joo YY, Chen CH, Raffield LM, Prins BP, Nicolas A, Yanek LR, Chen G, Brody JA, Kabagambe E, An P, Xiang AH, Choi HS, Cade BE, Tan J, Alaine Broadaway K, Williamson A, Kamali Z, Cui J, Adair LS, Adeyemo A, Aguilar-Salinas CA, Ahluwalia TS, Anand SS, Bertoni A, Bork-Jensen J, Brandslund I, Buchanan TA, Burant CF, Butterworth AS, Canouil M, Chan JCN, Chang LC, Chee ML, Chen J, Chen SH, Chen YT, Chen Z, Chuang LM, Cushman M, Danesh J, Das SK, Janaka de Silva H, Dedoussis G, Dimitrov L, Doumatey AP, Du S, Duan Q, Eckardt KU, Emery LS, Evans DS, Evans MK, Fischer K, Floyd JS, Ford I, Franco OH, Frayling TM, Freedman BI, Genter P, Gerstein HC, Giedraitis V, González-Villalpando C, González-Villalpando ME, Gordon-Larsen P, Gross M, Guare LA, Hackinger S, Han S, Hattersley AT, Herder C, Horikoshi M, Howard AG, Hsueh W, Huang M, Huang W, Hung Y-J, Hwang MY, Hwu C-M, Ichihara S, Arfan Ikram M, Ingelsson M, Islam MT, Isono M, Jang H-J, Jasmine F, Jiang G, Jonas JB, Jørgensen T, Kandeel FR, Kasturiratne A, Katsuya T, Kaur V, Kawaguchi T, Keaton JM, Kho AN, Khor C-C, Kibriya MG, Kim D-H, Kronenberg F, Kuusisto J, Läll K, Lange LA, Min Lee K, Lee M-S, Lee N-R, Leong A, Li L, Li Y, Li-Gao R, Lithgart S, Lindgren CM, Linneberg A, Liu C-T, Liu J, Locke AE, Louie T, Luan J, Luk AO, Luo X, Lv J, Lynch JA, Lyssenko V, Maeda S, Mamakou V, Mansuri SR, Matsuda K, Meitinger T, Metspalu A, Mo H, Morris AD, Nadler JL, Nalls MA, Nayak U, Ntalla I, Okada Y, Orozco L, Patel SR, Patil S, Pei P, Pereira MA, Peters A, Pirie FJ, Polikowsky HG, Porneala B, Prasad G,Rasmussen-Torvik LJ, Reiner AP, Roden M, Rohde R, Roll K, Sabanayagam C, Sandow K, Sankareswaran A, Sattar N, Schönherr S, Shahriar M, Shen B, Shi J, Shin DM, Shojima N, Smith JA, So WY, Stančáková A, Steinthorsdottir V, Stilp AM, Strauch K, Taylor KD, Thorand B, Thorsteinsdottir U, Tomlinson B, Tran TC, Tsai F-J, Tuomilehto J, Tusie-Luna T, Udler MS, Valladares-Salgado A, van Dam RM, van Klinken JB, Varma R, Wacher-Rodarte N, Wheeler E, Wickremasinghe AR, van Dijk KW, Witte DR, Yajnik CS, Yamamoto K, Yamamoto K, Yoon K, Yu C, Yuan J-M, Yusuf S, Zawistowski M, Zhang L, Zheng W; VA Million Veteran Program, AMED GRIFIN Diabetes Initiative Japan; Biobank Japan Project, Penn Medicine BioBank, Regeneron Genetics Center, eMERGE Consortium; International Consortium for Blood Pressure (ICBP); Meta-Analyses of Glucose and Insulin-Related Traits Consortium (MAGIC); Raffel LJ, Igase M, Ipp E, Redline S, Shin Cho Y, Lind L, Province MA, Fornage M, Hanis CL, Ingelsson E, Zonderman AB, Psaty BM, Wang YX, Rotimi CN, Becker DM, Matsuda F, Liu Y, Yokota M, Kardia SLR, Peyser PA, Pankow JS, Engert JC, Bonnefond A, Froguel P, Wilson JG, Sheu WHHH, Wu J-Y, Hayes MG, Ma RCW, Wong T-Y, Mook-Kanamori DO, Tuomi T, Chandak GR, Collins FS, Bharadwaj D, Paré G, Sale MM, Ahsan H, Motala AA, Shu X-O, Park K-S, Jukema JW, Cruz M, Chen Y-D I, Rich SS, McKean-Cowdin R, Grallert H, Cheng C-Y, Ghanbari M, Tai E-S, Dupuis J, Kato N, Laakso M, Köttgen A, Koh W-P, Bowden D-W, Palmer CNA, Kooner JS, Kooperberg C, Liu S, North KE, Saleheen D, Hansen T, Pedersen O, Wareham NJ, Lee J, Kim BJ, Millwood IY, Walters RG, Stefansson K, Goodarzi MO, Mohlke KL, Langenberg C, Haiman CA, Loos RJF, Florez JC, Rader DJ, Ritchie MD, Zöllner S, Mägi R, Denny JC, Yamauchi T, Kadowaki T, Chambers JC, Ng MCY, Sim X, Below JE, Tsao PS, Chang K-M, McCarthy MI, Meigs JB, Mahajan A, Spracklen CN, Mercader JM, Boehnke M, Rotter JI, Vujkovic M, Voight BF, Morris AP, Zeggini E. Genetic drivers of heterogeneity in type 2 diabetes pathophysiology. Nature. 2024 Mar;627(8003):347-357.

86. Youssef O, Loukola A, Zidi-Mouaffak YHS, Tamlander M, Ruotsalainen S, Kilpeläinen E, Mars N, Ripatti S; FinnGen (including Tuomi T); Palotie A, Donner K, Carpén O. High-Resolution Genotyping of Formalin-Fixed Tissue Accurately Estimates Polygenic Risk Scores in Human Diseases. Lab Invest. 2024 Jan 14;104(4):100325. doi: 10.1016/j.labinv.2024.100325.

85. Semnani-Azad Z, Gaillard R, Hughes AE, Boyle KE, Tobias DK; ADA/EASD PMDI (including Tuomi T); Perng W. Precision stratification of prognostic risk factors associated with outcomes in gestational diabetes mellitus: a systematic review. Commun Med (Lond). 2024 Jan 12;4(1):9.

84. Nurkkala JM, Aittokallio J; FinnGen (including Tuomi T); Kauko A, Niiranen T. Sex-specific genetic risks for adverse outcomes after coronary revascularization procedures. Interdiscip Cardiovasc Thorac Surg. 2024 Jan

2;38(1):ivae006. doi: 10.1093/icvts/ivae006.
83. Ahmad A, Lim LL, Morieri ML, Tam CH, Cheng F, Chikowore T, Dudenhöffer-Pfeifer M, Fitipaldi H, Huang C, Kanbour S, Sarkar S, Koivula RW, Motala AA, Tye SC, Yu G, Zhang Y, Provenzano M, Sherifali D, de Souza RJ, Tobias DK; ADA/EASD PMDI (including Tuomi T.); Gomez MF, Ma RCW, Mathioudakis N. Precision prognostics for cardiovascular disease in Type 2 diabetes: a systematic review and meta-analysis. Commun Med (Lond). 2024 Jan 22;4(1):11.
82. Chen S, Francioli LC, Goodrich JK, Collins RL, Kanai M, Wang Q, Alföldi J, Watts NA, Vittal C, Gauthier LD, Poterba T, Wilson MW, Tarasova Y, Phu W, Grant R, Yohannes MT, Koenig Z, Farjoun Y, Banks E, Donnelly S, Gabriel S, Gupta N, Ferriera S, Tolonen C, Novod S, Bergelson L, Roazen D, Ruano-Rubio V, Covarrubias M, Llanwarne C, Petrillo N, Wade G, Jeandet T, Munshi R, Tibbetts K; Genome Aggregation Database Consortium (including Tuomi T); O'Donnell-Luria A, Solomonson M, Seed C, Martin AR, Talkowski ME, Rehm HL, Daly MJ, Tiao G, Neale BM, MacArthur DG, Karczewski KJ. A genomic mutational constraint map using variation in 76,156 human genomes. Nature. 2024 Jan;625(7993):92-100. (Correction: Nature. 2024 Feb;626(7997):E1.)
81. Guo MH, Francioli LC, Stenton SL, Goodrich JK, Watts NA, Singer-Berk M, Groopman E, Darnowsky PW, Solomonson M, Baxter S; gnomAD Project Consortium (including Tuomi T); Tiao G, Neale BM, Hirschhorn JN, Rehm HL, Daly MJ, O'Donnell-Luria A, Karczewski KJ, MacArthur DG, Samocha KE. Inferring compound heterozygosity from large-scale exome sequencing data. Nat Genet. 2024 Jan;56(1):152-161.
80. Francis EC, Powe CE, Lowe WL Jr, White SL, Scholtens DM, Yang J, Zhu Y, Zhang C, Hivert MF, Kwak SH, Sweeting A; ADA/EASD PMDI (including Tuomi T). Refining the diagnosis of gestational diabetes mellitus: a systematic review and meta-analysis. Commun Med (Lond). 2023 Dec 18;3(1):185.
79. Nurmi AK, Pelttari LM, Kiiski JI, Khan S, Nurmikolu M, Suvanto M, Aho N, Tasmuth T, Kalso E, Schleutker J, Kallioniemi A, Heikkilä P; FinnGen (including Tuomi T); Aittomäki K, Blomqvist C, Nevanlinna H. NTHL1 is a recessive cancer susceptibility gene. Sci Rep. 2023 Nov 30;13(1):21127.
78. Willems SM, Ng NHJ, Fernandez J, Fine RS, Wheeler E, Wessel J, Kitajima H, Marenne G, Sim X, Yaghootkar H, Wang S, Chen S, Chen Y, Chen YI, Grarup N, Li-Gao R, Varga TV, Asimit JL, Feng S, Strawbridge RJ, Kleinbrink EL, Ahluwalia TS, An P, Appel EV, Arking DE, Auvinen J, Bielak LF, Bihlmeyer NA, Bork-Jensen J, Brody JA, Campbell A, Chu AY, Davies G, Demirkan A, Floyd JS, Giulianini F, Guo X, Gustafsson S, Jackson AU, Jakobsdottir J, Järvelin MR, Jensen RA, Kanoni S, Keinanen-Kiukaanniemi S, Li M, Lu Y, Luan J, Manning AK, Marten J, Meidtner K, Mook-Kanamori DO, Muka T, Pistis G, Prins B, Rice KM, Sanna S, Smith AV, Smith JA, Southam L, Stringham HM, Tragante V, van der Laan SW, Warren HR, Yao J, Yiorkas AM, Zhang W, Zhao W, Graff M, Highland HM, Justice AE, Marouli E, Medina-Gomez C, Afaq S, Alhejily WA, Amin N, Asselbergs FW, Bonnycastle LL, Bots ML, Brandslund I, Chen J, Danesh J, de Mutsert R, Dehghan A, Ebeling T, Elliott P; EPIC-Interact Consortium; Farmaki AE, Faul JD, Franks PW, Franks S, Fritsche A, Gjesing AP, Goodarzi MO, Gudnason V, Hallmans G, Harris TB, Herzig KH, Hivert MF, Jørgensen T, Jørgensen ME, Jousilahti P, Kajantie E, Karaleftheri M, Kardia SLR, Kinnunen L, Koistinen HA, Komulainen P, Kovacs P, Kuusisto J, Laakso M, Lange LA, Launer LJ, Leong A, Lindström J, Manning Fox JE, Männistö S, Maruthur NM, Moilanen L, Mulas A, Nalls MA, Neville M, Pankow JS, Pattie A, Petersen ERB, Puolijoki H, Rasheed A, Redmond P, Renström F, Roden M, Saleheen D, Saltevo J, Savonen K, Sebert S, Skaaby T, Small KS, Stančáková A, Stokholm J, Strauch K, Tai ES, Taylor KD, Thuesen BH, Tönjes A, Tsafantakis E, Tuomi T, Tuomilehto J; Understanding Society Scientific Group; Uusitupa M, Vääräsmäki M, Vaartjes I, Zoledziewska M, Abecasis G, Balkau B, Bisgaard H, Blakemore AI, Blüher M, Boeing H, Boerwinkle E, Bønnelykke K, Bottinger EP, Caulfield MJ, Chambers JC, Chasman DI, Cheng CY, Collins FS, Coresh J, Cucca F, de Borst GJ, Deary IJ, Dedoussis G, Deloukas P, den Ruijter HM, Dupuis J, Evans MK, Ferrannini E, Franco OH, Grallert H, Hansen T, Hattersley AT, Hayward C, Hirschhorn JN, Ikram A, Ingelsson E, Karpe F, Kaw KT, Kiess W, Kooner JS, Körner A, Lakka T, Langenberg C, Lind L, Lindgren CM, Linneberg A, Lipovich L, Liu CT, Liu J, Liu Y, Loos RJF, MacDonald PE, Mohlke KL, Morris AD, Munroe PB, Murray A,

Padmanabhan S, Palmer CNA, Pasterkamp G, Pedersen O, Peyser PA, Polasek O, Porteous D, Province MA, Psaty BM, Rauramaa R, Ridker PM, Rolandsson O, Rorsman P, Rosendaal FR, Rudan I, Salomaa V, Schulze MB, Sladek R, Smith BH, Spector TD, Starr JM, Stumvoll M, van Duijn CM, Walker M, Wareham NJ, Weir DR, Wilson JG, Wong TY, Zeggini E, Zonderman AB, Rotter JI, Morris AP, Boehnke M, Florez JC, McCarthy MI, Meigs JB, Mahajan A, Scott RA, Gloyn AL, Barroso I. Large-scale exome array summary statistics resources for glycemic traits to aid effector gene prioritization. Wellcome Open Res. 2023 Oct 20;8:483. doi: 10.12688/wellcomeopenres.18754.1.
77. Misra S, Wagner R, Ozkan B, Schön M, Sevilla-Gonzalez M, Prystupa K, Wang CC, Kreienkamp RJ, Cromer SJ, Rooney MR, Duan D, Thuesen ACB, Wallace AS, Leong A, Deutsch AJ, Andersen MK, Billings LK, Eckel RH, Sheu WH, Hansen T, Stefan N, Goodarzi MO, Ray D, Selvin E, Florez JC; ADA/EASD PMDI (including Tuomi T); Meigs JB, Udler MS. Precision subclassification of type 2 diabetes: a systematic review. Commun Med (Lond). 2023 Oct 5;3(1):138.
76. Benham JL, Gingras V, McLennan NM, Most J, Yamamoto JM, Aiken CE, Ozanne SE, Reynolds RM; ADA/EASD PMDI (including Tuomi T). Precision gestational diabetes treatment: a systematic review and meta-analyses. Commun Med (Lond). 2023 Oct 5;3(1):135.
75. Felton JL, Griffin KJ, Oram RA, Speake C, Long SA, Onengut-Gumuscu S, Rich SS, Monaco GSF, Evans-Molina C, DiMeglio LA, Ismail HM, Steck AK, Dabelea D, Johnson RK, Urazbayeva M, Gitelman S, Wentworth JM, Redondo MJ, Sims EK; ADA/EASD PMDI (including Tuomi T). Commun Med (Lond). 2023 Oct 5;3(1):130.
74. Young KG, McInnes EH, Massey RJ, Kahkoska AR, Pilla SJ, Raghavan S, Stanislawski MA, Tobias DK, McGovern AP, Dawed AY, Jones AG, Pearson ER, Dennis JM; ADA/EASD PDMI (including Tuomi T). Treatment effect heterogeneity following type 2 diabetes treatment with GLP1-receptor agonists and SGLT2-inhibitors: a systematic review. Commun Med (Lond). 2023 Oct 5;3(1):131.
73. Murphy R, Colclough K, Pollin TI, Ikle JM, Svalastoga P, Maloney KA, Saint-Martin C, Molnes J; ADA/EASD PMDI (including Tuomi T); Misra S, Aukrust I, de Franco E, Flanagan SE, Njølstad PR, Billings LK, Owen KR, Gloyn AL. The use of precision diagnostics for monogenic diabetes: a systematic review and expert opinion. Commun Med (Lond). 2023 Oct 5;3(1):136.
72. Lim S, Takele WW, Vesco KK, Redman LM, Hannah W, Bonham MP, Chen M, Chivers SC, Fawcett AJ, Grieger JA, Habibi N, Leung GKW, Liu K, Mekonnen EG, Pathirana M, Quinteros A, Taylor R, Ukke GG, Zhou SJ; ADA/EASD PMDI (including Tuomi T); Josefson J. Participant characteristics in the prevention of gestational diabetes as evidence for precision medicine: a systematic review and meta-analysis. Commun Med (Lond). 2023 Oct 5;3(1):137.
71. Jacobsen LM, Sherr JL, Considine E, Chen A, Peeling SM, Hulsmans M, Charleer S, Urazbayeva M, Tosur M, Alamarie S, Redondo MJ, Hood KK, Gottlieb PA, Gillard P, Wong JJ, Hirsch IB, Pratley RE, Laffel LM, Mathieu C; ADA/EASD PMDI (including Tuomi T). Utility and precision evidence of technology in the treatment of type 1 diabetes: a systematic review. Commun Med (Lond). 2023 Oct 5;3(1):132.
70. Bodhini D, Morton RW, Santhakumar V, Nakabuye M, Pomares-Millan H, Clemmensen C, Fitzpatrick SL, Guasch-Ferre M, Pankow JS, Ried-Larsen M, Franks PW; ADA/EASD PMDI (including Tuomi T); Tobias DK, Merino J, Mohan V, Loos RJF. Impact of individual and environmental factors on dietary or lifestyle interventions to prevent type 2 diabetes development: a systematic review. Commun Med (Lond). 2023 Oct 5;3(1):133.
69. Semple RK, Patel KA, Auh S; ADA/EASD PMDI (including Tuomi T); Brown RJ. Genotype-stratified treatment for monogenic insulin resistance: a systematic review. Commun Med (Lond). 2023 Oct 5;3(1):134. (Correction: Commun Med (Lond). 2024 Mar 26;4(1):57.)
68. Julkunen V, Schwarz C, Kalapudas J, Hallikainen M, Piironen AK, Mannermaa A, Kujala H, Laitinen T, Kosma VM, Paajanen TI, Kälviäinen R, Hiltunen M, Herukka SK, Kärkkäinen S, Kokkola T, Urjansson M; FinnGen (including Tuomi T); Perola M, Palotie A, Vuoksimaa E, Runz H. A FinnGen pilot clinical recall study for Alzheimer's disease. Sci Rep. 2023 Aug 3;13(1):12641.

67. Jones SE, Maisha FI, Strausz SJ, Lammi V, Cade BE, Tervi A, Helaakoski V, Broberg ME; FinnGen (including Tuomi T); Lane JM, Redline S, Saxena R, Ollila HM. The public health impact of poor sleep on severe COVID-19, influenza and upper respiratory infections. EBioMedicine. 2023 Jul;93:104630.
66. Tyrmi JS, Kaartokallio T, Lokki AI, Jääskeläinen T, Kortelainen E, Ruotsalainen S, Karjalainen J, Ripatti S, Kivioja A, Laisk T, Kettunen J, Pouta A, Kivinen K, Kajantie E, Heinonen S, Kere J, Laivuori H; FINNPEC Study Group, FinnGen Project (including Tuomi T), and the Estonian Biobank Research Team. Genetic Risk Factors Associated With Preeclampsia and Hypertensive Disorders of Pregnancy. JAMA Cardiol. 2023 Jul 1;8(7):674-683.
65. Miller EC, Kauko A, Tom SE, Laivuori H, Niiranen T, Bello NA; FinnGen Investigators (including Tuomi T). Risk of Midlife Stroke After Adverse Pregnancy Outcomes: The FinnGen Study. Stroke. 2023 Jul;54(7):1798-1805.
64. Ågren R, Patil S, Zhou X, FinnGen (including Tuomi T.), Sahlholm K, Pääbo S, Zeberg H. Major Genetic Risk Factors for Dupuytren's Disease Are Inherited From Neandertals. Mol Biol Evol. 2023 Jun 1;40(6):msad130.
63. Viippola E, Kuitunen S, Rodosthenous RS, Vabalas A, Hartonen T, Vartiainen P, Demmler J, Vuorinen AL, Liu A, Havulinna AS, Llorens V, Detrois KE, Wang F, Ferro M, Karvanen A, German J, Jukarainen S, Gracia-Tabuenca J, Hiekkalinna T, Koskelainen S, Kiiskinen T, Lahtela E, Lemmelä S, Paajanen T, Siirtola H, Reeve MP, Kristiansson K, Brunfeldt M, Aavikko M, Gen F, Perola M, Ganna A; FinnGen (including Tuomi T.). Data Resource Profile: Nationwide registry data for high-throughput epidemiology and machine learning (FinRegistry). Int J Epidemiol. 2023 Jun 26:dyad091.
62. DeForest N, Kavitha B, Hu S, Isaac R, Krohn L, Wang M, Du X, De Arruda Saldanha C, Gylys J, Merli E, Abagyan R, Najmi L, Mohan V, Alnylam Human Genetics, AMP-T2D Consortium (including Tuomi T), Flannick J, Peloso GM, Gordts P, Heinz S, Deaton AM, Khera AV, Olefsky J, Radha V, Majithia AR. Human gain-of-function variants in HNF1A confer protection from diabetes but independently increase hepatic secretion of atherogenic lipoproteins. Cell Genomics, 2023 May 30;3(7):100339.
61. Sliz E, Tyrmi JS, Rahmioglu N, Zondervan KT, Becker CM; FinnGen (including Tuomi T); Uimari O, Kettunen J. Evidence of a causal effect of genetic tendency to gain muscle mass on uterine leiomyomata. Nat Commun. 2023 Feb 1;14(1):542.
60. Yengo L, Vedantam S, Marouli E, Sidorenko J, Bartell E, Sakaue S, Graff M, Eliasen AU, Jiang Y, Raghavan S, Miao J, Arias JD, Mukamel RE, Spracklen CN, Yin X, Chen S-H, Ferreira T, JI Y, Karedera T, Lüll K, Lin K, Malden DE, Medina-Gomez C, Machado M, Moore A, Rüeger S, Ahluwalia TS, Akiyama M, Allison MA, Alvarez M, Andersen MK, Ani A, Appadurai V, Arbeeva L, Bhaskar S, Bielak LF, Bollepalli S, Bonnycastle LL, Bork-Jensen J, Bradfield JP, Bradford Y, Braund PS, Brody JA, Burgdorf KS, Cade BE, Cai H, Cai Q, Campbell A, Cañadas-Garre M, EulaliaCatamo59, Jin-Fang Chai60, Xiaoran Chai61,62, Li-Ching Chang63, Yi-Cheng Chang64,65, Chien-Hsiun Chen63 534 , Chesi A, Hoan Choi S, Chung R-H, Cocca M, Concas MP, Couture C, Cuellar-Partida G, Danning R, Daw EW, Degenhard F, Delgado GE, Delitala A, Demirkan A, Deng X, Devineni P, Dietl A, Dimitriou M, Dimitrov L, Dorajoo R, Ekici AB, Engmann JE, Fairhurst-Hunter Z, Farmaki A-E, Faul JD, Fernandez-Lopez J-C, Forer L, Francescatto M, Freitag-Wolf S, Fuchsberger C, Galesloot TE, Gao Y, Gao Z, Geller F, Giannakopoulou O, Giulianini F, Gjesing AP, Goel A, Gordon SD, Gorski M, Graham SE, Grove J, Guo X, Gustafsson S, Haessler J, Hansen TF, Havulinna A, Haworth SJ, He J, Heard-Costa N, Hebbar P, Hindy G, Ho Y-L A, Hofer E, Holliday E, Horn K, Hornsby WE, Hottenga J-J, Huang H, Huang J, HuertaChagoya A, Huffman JE, Hung Y-J, Huo S, Hwang MY, Iha H, Ikeda DD, Isono M, Jackson AU, Jäger S, Jansen IE, Johansson I, Jonas JB, Jonsson A, Jørgensen T, Kalafati I-P, Kanai M, Kanoni S, Kårhus LL, Kasturiratne A, Katsuya T, Kawaguchi T, Kember RL, Kentistou KA, Kim H-N, Kim YJ, Kleber ME, Knol MJ, Kurbasic A, Lauzon M, Le P, Lea R, Lee J-Y, Leonard HL, Li SA, Li X, Li X, Liang J, Lin H, Lin S-Y, Liu J, Liu X, Lo KS, Long J, Lores-Motta L, Luan J, Lyssenko V, Lyytikäinen L-P, Mahajan A, Mamakou V, Mangino M, Manichaikul A, Marten J, Mattheisen M, Mavarani L, McDaid AF, Meidtner K, Melendez TL, Mercader JM, Milaneschi Y, Miller JE, Millwood IY, Mishra PP, Mitchell RE, Møllehave LT, Morgan A, Mucha S, Munz M, Nakatochi

M, Nelson CP, Nethander M, Nho CW, Nielsen AA, Nolte IM, Nongmaithem SS, Noordam R, Ntalla I, Nutile T, Pandit A, Christofidou P, Pärna K, Pauper M, Petersen ERB, Petersen LV, Pitkänen N, Polašek O, Poveda A, Preuss MH, Pyarajan S, Raffield LM, Rakugi H, Ramirez J, Rasheed A, Raven D, Rayner NW, Riveros C, Rohde R, Ruggiero D, Ruotsalainen SE, Ryan KA, Sabater-Lleal M, Saxena R, Scholz M, Sendamarai A, Shen B, Shi J, Shin JH, Sidore C, Sim X, Sitlani CM, Slieker RC, Smit RAJ, Smith AV, Smith JA, Smyth LJ, Southam L, Steinthorsdottir V, Sun L, Takeuchi F, Tallapragada DSP, Taylor KD, Tayo BO, Tcheandjieu C, Terzikhan N, Tesolin P, Teumer A, Theusch E, Thompson DJ, Thorleifsson G, Timmers PRHJ, Trompet S, Turman C, Vaccargiu S, van der Laan SW, van der Most PJ, van Klinken JB, van Setten J, Verma SS, Verweij N, Veturi Y, Wang CA, Wang C, Wang L, Wang Z, Warren HR, Wei WB, Wickremasinghe AR, Wielscher M, Wiggins KL, Winsvold BS, Wong A, Wu Y, Wuttke M, Xia R, Xie T, Yamamoto K, Yang J, Yao J, Young H, Yousri NA, Yu L, Zeng L, Zhang W, Zhang X, Zhao J-H, Zhao W, Zhou W, Zimmermann ME, Zoledziewska M, Adair LA, Adams HHH, Aguilar-Salinas CA, AlMulla F, Arnett DK, Asselbergs FW, Åsvold BO, Attia J, Banas B, Bandinelli S, Bennett DA, Bergler T, Bharadwaj D, Biino G, Bisgaard H, Boerwinkle E, Böger CA, Bønnelykke K, Boomsma DI, Børglum AD, Borja JB, Bouchard C, Bowden DW, Brandslund I, Brumpton B, Buring JE, Caulfield MJ, Chambers JC, Chandak GR, Chanock SJ, Chaturvedi N, Chen Y-DI, Chen Z, Cheng C-Y, Christophersen IE, Ciullo M, Cole JW, Collins FS, Cooper RS, Cruz M, Cucca F, Cupples LA, Cutler MJ, Damrauer SM, Dantoft TM, de Borst GJ, de Groot LCPGM, De Jager PL, de Kleijn DPV, de Silva HJ, Dedoussis GV, den Hollander AI, Du S, Easton DF, Elders PJM, Eliassen H, Ellinor PT, Elmståhl S, Erdmann J, Evans MK, Fatkin D, Feenstra B, Feitosa MF, Ferrucci L, Ford I, Fornage M, Franke A, Franks PW, 1Freedman PI, Gasparini P, Gieger C, Girotto G, Goddard ME, Golightly YM, Gonzalez-Villalpando C, Gordon-Larsen P, Grallert H, Grant SFA, Grarup N, Griffiths L, Groop L, Gudnason W, Haiman C, Hakonarson H, Hansen T, Hartman CA, Hattersley AT, Hayward C, Heckbert SR, Heng C-K, Hengstenberg C, Hewitt AW, Hishigaki H, Hoyng CB, Huang PL, Huang W, Hunt SC, Hveem K, Hyppönen E, Iacono WG, Ichihara S, Ikram MA, Isasi CR, Jackson RD, Jarvelin M-R, Jin Z, Jöckel K-H, Joshi PK, Jousilahti P, Jukema JW, Kähönen M, Kamatani Y, Kang KD, Kaprio J, Kardia SLR, Karpe F, Kato N, Kee F, Kessler T, Khera AW, Khor CC, Kiemeney LALM, Kim B-J, Kim EK, Kim H-L, Kirchhof P, Kivimaki M, Koh WP, Koistinen HA, Kolovou GD, Kooner JS, Kooperberg C, Köttgen A, Kovacs P, Kraaijeveld A, Kraft P, Krauss RM, Kumari M, Kutalik Z, Laakso M, Lange LA, Langenberg C, Launer LJ, Marchand LL, Lee H, Lee NR, Lehtimäki T, Li H, Li L, Lieb W, Lin Z, Lind L, Linneberg A, Liu C-T, Liu J, Loeffler M, London B, Lubitz SA, Lye SJ, Mackey DA, Mägi R, Magnusson PKE, Marcus GM, Vidal PM, Martin NG, März W, Matsuda F, McGarrah RW, McGue M, McKnight AJ, Medland SE, Mellström D, Metspalu A, Mitchell BD, Mitchell P, Mook-Kanamori DO, Morris AD, Mucci LA, Munroe PB, Nalls MA, Nazarian S, Nelson AE, Neville MJ, Newton-Cheh C, Nielsen CS, Nöthen MM, Ohlsson C, Oldehinkel AJ, Orozco L, Pahkala K, Pajukanta P, Palmer CNA, Parra EJ, Pattaro C, Pedersen O, Pennell CE, Penninx BWJH, Perusse L, Peters A, Peyser PA, Porteous DJ, Posthuma D, Power C, Pramstaller PP, Province MA, Qi Q, Qu J, Rader DJ, Raitakari OT, Ralhan S, Rallidis LS, Rao DC, Redline S, Reilly DF, Reiner AP, Rhee SY, Ridker PM, Rienstra M, Ripatti S, Ritchie MD, Roden DM, Rosendaal FR, Rotter JI, Rudan I, Rutters F, Sabanayagam C, Saleheen D, Salomaa V, Samani NJ, Sanghera DK, Sattar N, Schmidt B, Schmidt H, Schmidt R, Schulze MB, Schunkert H, Scott LJ, Scott RJ, Sever P, Shiroma EJ, Shoemaker MB, Shu X-O, Simonsick EM, Sims M, Singh JR, Singleton AB, Sinner MF, Smith JG, Snieder H, Spector TD, Stampfer MJ, Stark KJ, Strachan DP, Hart LMT, Tabara Y, Tang H, Tardif J-C, Thanaraj TA, Timpson NJ, Tönjes A, Tremblay A, Tuomi T, Tuomilehto J, TusiéLuna M-T, Uitterlinden AG, van Dam RM, van der Harst P, Van der Velde N, van Duijn CM, van Schoor N, Vitart V, Völker U, Vollenweider P, Völzke H, Vrieze S, Wacher-Rodarte NH, Walker M, Wang YX, Wareham NJ, Watanabe RM, Watkins H, Weir DR, Werge TM, Widen E, Wilkens LR, Willemsen G, Willett WC, Wilson JF, Wong T-Y, Woo J-T, Wright AF, Wu J-Y, Xu H, Yajnik CS, Yokota M Yuan J-M, Zeggini E, Zemel BS, Zheng W, Zhu X, Zmuda JM, Zonderman AB, Zwart JA, 23andMe Research Team, Million Veteran Program, DiscovEHR (DiscovEHR and MyCode Community Health Initiative), eMERGE (Electronic Medical Records and Genomics Network), Lifelines Cohort Study, Regeneron Genetics Center, The

PRACTICAL Consortium, Understanding Society Scientific Group, Chasman DI, Cho YS, Heid IM, McCarthy MI, Ng MCY, O'Donnell CJ, Rivadeneira F, Thorsteinsdottir U, Sun YV, Tai ES, Boehnke M, Deloukas P, Justice AE, Lindgren CM, Loos RJF, Mohlke KL, North KE, Stefansson K, Walters RG, Winkler TW, Young KL, Loh P-R, Yang J, Esko T, Assimes TL, Auton A, Abecasis GR, Willer CJ, Locke AE, Bernd SI, Lettre G, Frayling TM, Okada Y, Wood AR, Visscher PM, Hirschhorn JN. A saturated map of common genetic variants associated with human height. Nature. 2022 Oct;610(7933):704-712.
59. Rodosthenous RS, Niemi MEK, Kallio L, Perala M, Terho P, Knopp T, Punkka E, Makkonen EM, Nurmi P, Makela J, Wihuri P, Hautalahti M, Moffatt C, Martini P, Germine L, Makela VA, Karhunen OA, Lahti J, Hiekkalinna TS, Jyrhama T, Shen HY, Runz H, Palotie A, Perola M, Ganna A; FinnGen (incl. Tuomi T.). Recontacting biobank participants to collect lifestyle, behavioural and cognitive information via online questionnaires: lessons from a pilot study within FinnGen. BMJ Open. 2022 Oct 5;12(10):e064695.
58. Ruotsalainen SE, Surakka I, Mars N, Karjalainen J, Kurki M, Kanai M, Krebs K, Graham S, Mishra PP, Mishra BH, Sinisalo J, Palta P, Lehtimäki T, Raitakari O; Estonian Biobank Research Team, Milani L; Biobank Japan Project, Okada Y; FinnGen (incl. Tuomi T), Palotie A, Widen E, Daly MJ, Ripatti S. Inframe insertion and splice site variants in MFGE8 associate with protection against coronary atherosclerosis. Commun Biol. 2022 Aug 17;5(1):802.
57. Pellenguez C, Küçükali F, Jansen IE, (..)., Finngen (incl. Tuomi T.) et. al. New insights into the genetic etiology of Alzheimer's disease and related dementias. Nat Genet. 2022 Apr;54(4):412-436.
56. Tamlander M, Mars N, Pirinen M; FinnGen (incl. Tuomi T), Widén E, Ripatti S. Integration of questionnaire-based risk factors improves polygenic risk scores for human coronary heart disease and type 2 diabetes. Commun Biol. 2022 Feb 23;5(1):158.
55. Hindy G, Dornbos P, Chaffin MD, Liu DJ, Wang M, Selvaraj MS, Zhang D, Park J, Aguilar-Salinas CA, Antonacci-Fulton L, Ardissino D, Arnett DK, Aslibekyan S, Atzmon G, Ballantyne CM, Barajas-Olmos F, Barzilai N, Becker LC, Bielak LF, Bis JC, Blangero J, Boerwinkle E, Bonnycastle LL, Bottinger E, Bowden DW, Bown MJ, Brody JA, Broome JG, Burtt NP, Cade BE, Centeno-Cruz F, Chan E, Chang YC, Chen YI, Cheng CY, Choi WJ, Chowdhury R, Contreras-Cubas C, Córdova EJ, Correa A, Cupples LA, Curran JE, Danesh J, de Vries PS, DeFronzo RA, Doddapaneni H, Duggirala R, Dutcher SK, Ellinor PT, Emery LS, Florez JC, Fornage M, Freedman BI, Fuster V, Garay-Sevilla ME, García-Ortiz H, Germer S, Gibbs RA, Gieger C, Glaser B, Gonzalez C, Gonzalez-Villalpando ME, Graff M, Graham SE, Grarup N, Groop LC, Guo X, Gupta N, Han S, Hanis CL, Hansen T, He J, Heard-Costa NL, Hung YJ, Hwang MY, Irvin MR, Islas-Andrade S, Jarvik GP, Kang HM, Kardia SLR, Kelly T, Kenny EE, Khan AT, Kim BJ, Kim RW, Kim YJ, Koistinen HA, Kooperberg C, Kuusisto J, Kwak SH, Laakso M, Lange LA, Lee J, Lee J, Lee S, Lehman DM, Lemaitre RN, Linneberg A, Liu J, Loos RJF, Lubitz SA, Lyssenko V, Ma RCW, Martin LW, Martínez-Hernández A, Mathias RA, McGarvey ST, McPherson R, Meigs JB, Meitinger T, Melander O, Mendoza-Caamal E, Metcalf GA, Mi X, Mohlke KL, Montasser ME, Moon JY, Moreno-Macías H, Morrison AC, Muzny DM, Nelson SC, Nilsson PM, O'Connell JR, Orho-Melander M, Orozco L, Palmer CNA, Palmer ND, Park CJ, Park KS, Pedersen O, Peralta JM, Peyser PA, Post WS, Preuss M, Psaty BM, Qi Q, Rao DC, Redline S, Reiner AP, Revilla-Monsalve C, Rich SS, Samani N, Schunkert H, Schurmann C, Seo D, Seo JS, Sim X, Sladek R, Small KS, So WY, Stilp AM, Tai ES, Tam CHT, Taylor KD, Teo YY, Thameem F, Tomlinson B, Tsai MY, Tuomi T, Tuomilehto J, Tusié-Luna T, Udler MS, van Dam RM, Vasan RS, Viaud Martinez KA, Wang FF, Wang X, Watkins H, Weeks DE, Wilson JG, Witte DR, Wong TY, Yanek LR; AMP-T2D-GENES, Myocardial Infarction Genetics Consortium; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium; NHLBI TOPMed Lipids Working Group, Kathiresan S, Rader DJ, Rotter JI, Boehnke M, McCarthy MI, Willer CJ, Natarajan P, Flannick JA, Khera AV, Peloso GM. Rare coding variants in 35 genes associate with circulating lipid levels – a multi-ancestry analysis of 170,000 exomes. Am J Hum Genet. 2022 Jan 6;109(1):81-96.
54. Palomäki A; FinnGen Rheumatology Clinical Expert Group, Palotie A, Koskela J, Eklund KK, Pirinen M; FinnGen (including Tuomi T), Ripatti S, Laitinen T, Mars N. Lifetime risk of rheumatoid arthritis-associated interstitial

lung disease in MUC5B mutation carriers. Ann Rheum Dis. 2021; Dec;80(12):1530-1536.
53. Zekavat SM, Lin SH, Bick AG, Liu A, Paruchuri K, Wang C, Uddin MM, Ye Y, Yu Z, Liu X, Kamatani Y, Bhattacharya R, Pirruccello JP, Pampana A, Loh PR, Kohli P, McCarroll SA, Kiryluk K, Neale B, Ionita-Laza I, Engels EA, Brown DW, Smoller JW, Green R, Karlson EW, Lebo M, Ellinor PT, Weiss ST, Daly MJ; Biobank Japan Project; FinnGen Consortium (including Tuomi T), Terao C, Zhao H, Ebert BL, Reilly MP, Ganna A, Machiela MJ, Genovese G, Natarajan P. Hematopoietic mosaic chromosomal alterations increase the risk for diverse types of infection. Nat Med. 2021 Jun;27(6):1012-1024.
52. Liuska PJ, Lemmelä S, Havulinna AS, Kaarniranta K, Uusitalo H, Laivuori H, Kiiskinen T, Daly MJ, Palotie A, Turunen JA; FinnGen Consortium (including Tuomi T). Association of the MYOC p.(Gln368Ter) Variant With Glaucoma in a Finnish Population. JAMA Ophthalmol. 2021 Jul 1;139(7):762-768.
51. Natarajan P, Pampana A, Graham SE, Ruotsalainen SE, Perry JA, de Vries PS, Broome JG, Pirruccello JP, Honigberg MC, Aragam K, Wolford B, Brody JA, Antonacci-Fulton L, Arden M, Aslibekyan S, Assimes TL, Ballantyne CM, Bielak LF, Bis JC, Cade BE, Do R, Doddapaneni H, Emery LS, Hung YJ, Irvin MR, Khan AT, Lange L, Lee J, Lemaitre RN, Martin LW, Metcalf G, Montasser ME, Moon JY, Muzny D, O'Connell JR, Palmer ND, Peralta JM, Peyser PA, Stilp AM, Tsai M, Wang FF, Weeks DE, Yanek LR, Wilson JG, Abecasis G, Arnett DK, Becker LC, Blangero J, Boerwinkle E, Bowden DW, Chang YC, Chen YI, Choi WJ, Correa A, Curran JE, Daly MJ, Dutcher SK, Ellinor PT, Fornage M, Freedman BI, Gabriel S, Germer S, Gibbs RA, He J, Hveem K, Jarvik GP, Kaplan RC, Kardia SLR, Kenny E, Kim RW, Kooperberg C, Laurie CC, Lee S, Lloyd-Jones DM, Loos RJF, Lubitz SA, Mathias RA, Martinez KAV, McGarvey ST, Mitchell BD, Nickerson DA, North KE, Palotie A, Park CJ, Psaty BM, Rao DC, Redline S, Reiner AP, Seo D, Seo JS, Smith AV, Tracy RP, Vasan RS, Kathiresan S, Cupples LA, Rotter JI, Morrison AC, Rich SS, Ripatti S, Willer C; NHLBI Trans-Omics for Precision Medicine (TOPMed) Consortium; FinnGen (including Tuomi T), Peloso GM. Chromosome Xq23 is associated with lower atherogenic lipid concentrations and favorable cardiometabolic indices. Nat Commun 2021 Apr 12;12(1):2182.
50. Gharahkhani P, Jorgenson E, Hysi P, Khawaja AP, Pendergrass S, Han X, Ong JS, Hewitt AW, Segrè AV, Rouhana JM, Hamel AR, Igo RP Jr, Choquet H, Qassim A, Josyula NS, Cooke Bailey JN, Bonnemaijer PWM, Iglesias A, Siggs OM, Young TL, Vitart V, Thiadens AAHJ, Karjalainen J, Uebe S, Melles RB, Nair KS, Luben R, Simcoe M, Amersinghe N, Cree AJ, Hohn R, Poplawski A, Chen LJ, Rong SS, Aung T, Vithana EN; NEIGHBORHOOD consortium; ANZRAG consortium; Biobank Japan project; FinnGen study (including Tuomi T); UK Biobank Eye and Vision Consortium; GIGA study group; 23 and Me Research Team, Tamiya G, Shiga Y, Yamamoto M, Nakazawa T, Currant H, Birney E, Wang X, Auton A, Lupton MK, Martin NG, Ashaye A, Olawoye O, Williams SE, Akafo S, Ramsay M, Hashimoto K, Kamatani Y, Akiyama M, Momozawa Y, Foster PJ, Khaw PT, Morgan JE, Strouthidis NG, Kraft P, Kang JH, Pang CP, Pasutto F, Mitchell P, Lotery AJ, Palotie A, van Duijn C, Haines JL, Hammond C, Pasquale LR, Klaver CCW, Hauser M, Khor CC, Mackey DA, Kubo M, Cheng CY, Craig JE, MacGregor S, Wiggs JL. Genome-wide meta-analysis identifies 127 open-angle glaucoma loci with consistent effect across ancestries. Nat Commun. 2021 Feb 24;12(1):1258.
49. Strausz S, Kiiskinen T, Broberg M, Ruotsalainen S, Koskela J, Bachour A; FinnGen (including Tuomi T), Palotie A, Palotie T, Ripatti S, Ollila HM. Sleep apnoea is a risk factor for severe COVID-19. BMJ Open Respir Res 2021 Jan;8(1):e000845.
48. Mars N, Widén E, Kerminen S, Meretoja T, Pirinen M, Della Briotta Parolo P, Palta P; FinnGen (including Tuomi T), Palotie A, Kaprio J, Joensuu H, Daly M, Ripatti S. The role of polygenic risk and susceptibility genes in breast cancer over the course of life. Nat Commun 2020 Dec 14;11(1):6383.
47. Whiffin N, Karczewski KJ, Zhang X, Chothani S, Smith MJ, Evans DG, Roberts AM, Quaife NM, Schafer S, Rackham O, Alföldi J, O'Donnell-Luria AH, Francioli LC; Genome Aggregation Database Production Team; Genome Aggregation Database Consortium (including Tuomi T, listed as collaborator), Cook SA, Barton PJR, MacArthur DG, Ware JS. Characterising the loss-of-function impact of 5' untranslated region variants in 15,708 individuals. Nat Commun. 2020 May 27;11(1):2523. (Correction: Nat Commun. 2021 Feb

2;12(1):839)
46. Wang Q, Pierce-Hoffman E, Cummings BB, Alföldi J, Francioli LC, Gauthier LD, Hill AJ, O'Donnell-Luria AH; Genome Aggregation Database Production Team; Genome Aggregation Database Consortium (including Tuomi T, listed as collaborator), Karczewski KJ, MacArthur DG. Landscape of multi-nucleotide variants in 125,748 human exomes and 15,708 genomes. Nat Commun. 2020 May 27;11(1):2539. (Correction: Nat Commun. 2021 Feb 2;12(1):827)
45. Cummings BB, Karczewski KJ, Kosmicki JA, Seaby EG, Watts NA, Singer-Berk M, Mudge JM, Karjalainen J, Satterstrom FK, O'Donnell-Luria AH, Poterba T, Seed C, Solomonson M, Alföldi J; Genome Aggregation Database Production Team; Genome Aggregation Database Consortium (including Tuomi T, listed as collaborator), Daly MJ, MacArthur DG. Transcript expression-aware annotation improves rare variant interpretation. Nature 2020 May;581(7809):452-458. (Correction: Nature. 2021 Feb;590(7846):E54)
44. Karczewski KJ, Francioli LC, Tiao G, Cummings BB, Alföldi J, Wang Q, Collins RL, Laricchia KM, Ganna A, Birnbaum DP, Gauthier LD, Brand H, Solomonson M, Watts NA, Rhodes D, Singer-Berk M, England EM, Seaby EG, Kosmicki JA, Walters RK, Tashman K, Farjoun Y, Banks E, Poterba T, Wang A, Seed C, Whiffin N, Chong JX, Samocha KE, Pierce-Hoffman E, Zappala Z, O'Donnell-Luria AH, Minikel EV, Weisburd B, Lek M, Ware JS, Vittal C, Armean IM, Bergelson L, Cibulskis K, Connolly KM, Covarrubias M, Donnelly S, Ferriera S, Gabriel S, Gentry J, Gupta N, Jeandet T, Kaplan D, Llanwarne C, Munshi R, Novod S, Petrillo N, Roazen D, Ruano-Rubio V, Saltzman A, Schleicher M, Soto J, Tibbetts K, Tolonen C, Wade G, Talkowski ME; Genome Aggregation Database Consortium (including Tuomi T, listed as collaborator), Neale BM, Daly MJ, MacArthur DG. The mutational constraint spectrum quantified from variation in 141,456 humans. Nature 2020 May;581(7809):434-443. (Correction: Nature. 2021 Feb;590(7846):E53)
43. Minikel EV, Karczewski KJ, Martin HC, Cummings BB, Whiffin N, Rhodes D, Alföldi J, Trembath RC, van Heel DA, Daly MJ; Genome Aggregation Database Production Team; Genome Aggregation Database Consortium (including Tuomi T, listed as collaborator), Schreiber SL, MacArthur DG. Evaluating drug targets through human loss-of-function genetic variation. Nature 2020 May;581(7809):459-464.
42. Collins RL, Brand H, Karczewski KJ, Zhao X, Alföldi J, Francioli LC, Khera AV, Lowther C, Gauthier LD, Wang H, Watts NA, Solomonson M, O'Donnell-Luria A, Baumann A, Munshi R, Walker M, Whelan CW, Huang Y, Brookings T, Sharpe T, Stone MR, Valkanas E, Fu J, Tiao G, Laricchia KM, Ruano-Rubio V, Stevens C, Gupta N, Cusick C, Margolin L, Genome Aggregation Database Production Team; Genome Aggregation Database Consortium (including Tuomi T, listed as collaborator); Taylor KD, Lin HJ, Rich SS, Post WS, Chen Y-DI, Rotter JI, Nusbaum C, Philippakis A, Lander E, Gabriel S, Neale BM, Kathiresan S, Daly MJ, Banks E, MacArthur DG, Talkowski ME. A structural variation reference for medical and population genetics. Nature 2020 May;581(7809):444-451.
41. 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 PB, Stewart ID, Cabrera CP, Eales JM, Akbarov A, Auer PL, Bielak LF, Bis JC, Braithwaite VS, Brody JA, Daw W, Warren HR, Drenos F, Fallgaard Nielsen S, Faul JD, Fauman EB, Fava C, Ferreira T, Foley1 CN, Franceschini N, Gao H, Giannakopoulou O, Giulianini F, Gudbjartsson DF, Guo X, Harris SE, Havulinna AS, Helgadottir A, Huffman JE, Hwang S-J, Kanoni S, Kontto J, Larson MG, Li-Gao R, Lindström J, Lotta LA, Lu Y, Luan J, Mahajan A, 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, Thorsteinsdottir U, Trompet S, Varga TV, Velez Edwards DR, Veronesi G, Weiss S, Willems SM, Yao J, Young R, Yu B, Zhang W, Zhao J-H, Zhao W, Zhao W, Evangelou E, Aeschbacher S, Asllanaj E, Blankenberg S, Bonnycastle LL, Bork-Jensen J, Brandslund I, Braund PS, Burgess S, Cho K, Christensen C, Connell J, de Mutsert R, Dominiczak AF, Dörr M, Eiriksdottir G, Farmaki A-E, 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-M, Karpe F,

Koistinen HA, Kovesdy CP, Kuulasmaa K, Laatikainen T, Lannfelt L, Lee I-T, Lee W-J, LifeLines Cohort Study, Linneberg A, Martin LW, Moitry M, Nadkarni G, Neville M, 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, Tõnu E, Trabetti E, Tsao PS, Tuomi T, Turner ST, Tzoulaki I, Vaartjes I, Vergnaud A-C, Willer C-J, 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 Y-D I, Chowdhury R, Conen D, Correa A, Smith GD, de Boer RA, Deary IJ, Dedoussis G, Deloukas P, Angelantonio ED, 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 K-H, Ingelsson E, Tuomilehto J, Jarvelin M-R, Jukema JW, Kardia SLR, Kee F, Kooner JS, Kooperberg C, Launer LJ, Lind L, Loos RJF, Majumder A, 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 W H-H, 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, 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 C, Psaty PM, Saleheen D, Stefansson K, Boerwinkle E, Chasman DI, Levy D, Newton-Cheh C, Munroe PM, Howson JMM. Discovery of rare variants associated with blood pressure regulation through meta-analysis of 1.3 million individuals. Nat Genet, 2020 Dec;52(12):1314-1332. (Correction Nat Genet. 2021 May;53(5):762.)

40. Tabassum R, Rämö JT, Ripatti P, Koskela JT, Kurki M, Karjalainen J, Palta P, Hassan S, Nunez-Fontarnau J, Kiiskinen TTJ, Söderlund S, Matikainen N, Gerl MJ, Surma MA, Klose C, Stitziel NO, Laivuori H, Havulinna AS, Service SK, Salomaa V, Pirinen M; FinnGen Project (including Tuomi T), Jauhiainen M, Daly MJ, Freimer NB, Palotie A, Taskinen MR, Simons K, Ripatti S. Genetic architecture of human plasma lipidome and its link to cardiovascular disease. Nat Commun. 2019 Sep 24;10(1):4329.

39. Clark DW, Okada Y, Moore KHS, Mason D, Pirastu N, Gandin I, Mattsson H, Barnes CLK, Lin K, Zhao JH, Deelen P, Rohde R, Schurmann C, Guo X, Giulianini F, Zhang W, Medina-Gomez C, Karlsson R, Bao Y, Bartz TM, Baumbach C, Biino G, Bixley MJ, Brumat M, Chai JF, Corre T, Cousminer DL, Dekker AM, Eccles DA, van Eijk KR, Fuchsberger C, Gao H, Germain M, Gordon SD, de Haan HG, Harris SE, Hofer E, Huerta-Chagoya A, Igartua C, Jansen IE, Jia Y, Kacprowski T, Karlsson T, Kleber ME, Li SA, Li-Gao R, Mahajan A, Matsuda K, Meidtner K, Meng W, Montasser ME, van der Most PJ, Munz M, Nutile T, Palviainen T, Prasad G, Prasad RB, Priyanka TDS, Rizzi F, Salvi E, Sapkota BR, Shriner D, Skotte L, Smart MC, Smith AV, van der Spek A, Spracklen CN, Strawbridge RJ, Tajuddin SM, Trompet S, Turman C, Verweij N, Viberti C, Wang L, Warren HR, Wootton RE, Yanek LR, Yao J, Yousri NA, Zhao W, Adeyemo AA, Afaq S, Aguilar-Salinas CA, Akiyama M, Albert ML, Allison MA, Alver M, Aung T, Azizi F, Bentley AR, Boeing H, Boerwinkle E, Borja JB, de Borst GJ, Bottinger EP, Broer L, Campbell H, Chanock S, Chee ML, Chen G, Chen YI, Chen Z, Chiu YF, Cocca M, Collins FS, Concas MP, Corley J, Cugliari G, van Dam RM, Damulina A, Daneshpour MS, Day FR, Delgado GE, Dhana K, Doney ASF, Dörr M, Doumatey AP, Dzimiri N, Ebenesersdóttir SS, Elliott J, Elliott P, Ewert R, Felix JF, Fischer K, Freedman BI, Girotto G, Goel A, Gögele M, Goodarzi MO, Graff M, Granot-Hershkovitz E, Grodstein F, Guarrera S, Gudbjartsson DF, Guity K, Gunnarsson B, Guo Y, Hagenaars SP, Haiman CA, Halevy A, Harris TB, Hedayati M, van Heel DA, Hirata M, Höfer I, Hsiung CA, Huang J, Hung YJ, Ikram MA, Jagadeesan A, Jousilahti P, Kamatani Y, Kanai M, Kerrison ND, Kessler T, Khaw KT, Khor CC, de Kleijn DPV, Koh WP, Kolcic I, Kraft P, Krämer BK, Kutalik Z, Kuusisto J, Langenberg C, Launer LJ, Lawlor DA, Lee IT, Lee WJ, Lerch MM, Li L, Liu J, Loh M, London SJ, Loomis S, Lu Y, Luan J, Mägi R, Manichaikul AW, Manunta P, Másson G, Matoba N, Mei XW, Meisinger C, Meitinger T, Mezzavilla M,

Milani L, Millwood IY, Momozawa Y, Moore A, Morange PE, Moreno-Macías H, Mori TA, Morrison AC, Muka T, Murakami Y, Murray AD, de Mutsert R, Mychaleckyj JC, Nalls MA, Nauck M, Neville MJ, Nolte IM, Ong KK, Orozco L, Padmanabhan S, Pálsson G, Pankow JS, Pattaro C, Pattie A, Polasek O, Poulter N, Pramstaller PP, Quintana-Murci L, Räikkönen K, Ralhan S, Rao DC, van Rheenen W, Rich SS, Ridker PM, Rietveld CA, Robino A, van Rooij FJA, Ruggiero D, Saba Y, Sabanayagam C, Sabater-Lleal M, Sala CF, Salomaa V, Sandow K, Schmidt H, Scott LJ, Scott WR, Sedaghati-Khayat B, Sennblad B, van Setten J, Sever PJ, Sheu WH, Shi Y, Shrestha S, Shukla SR, Sigurdsson JK, Sikka TT, Singh JR, Smith BH, Stančáková A, Stanton A, Starr JM, Stefansdottir L, Straker L, Sulem P, Sveinbjornsson G, Swertz MA, Taylor AM, Taylor KD, Terzikhan N, Tham YC, Thorleifsson G, Thorsteinsdottir U, Tillander A, Tracy RP, Tusié-Luna T, Tzoulaki I, Vaccargiu S, Vangipurapu J, Veldink JH, Vitart V, Völker U, Vuoksimaa E, Wakil SM, Waldenberger M, Wander GS, Wang YX, Wareham NJ, Wild S, Yajnik CS, Yuan JM, Zeng L, Zhang L, Zhou J, Amin N, Asselbergs FW, Bakker SJL, Becker DM, Lehne B, Bennett DA, van den Berg LH, Berndt SI, Bharadwaj D, Bielak LF, Bochud M, Boehnke M, Bouchard C, Bradfield JP, Brody JA, Campbell A, Carmi S, Caulfield MJ, Cesarini D, Chambers JC, Chandak GR, Cheng CY, Ciullo M, Cornelis M, Cusi D, Smith GD, Deary IJ, Dorajoo R, van Duijn CM, Ellinghaus D, Erdmann J, Eriksson JG, Evangelou E, Evans MK, Faul JD, Feenstra B, Feitosa M, Foisy S, Franke A, Friedlander Y, Gasparini P, Gieger C, Gonzalez C, Goyette P, Grant SFA, Griffiths LR, Groop L, Gudnason V, Gyllensten U, Hakonarson H, Hamsten A, van der Harst P, Heng CK, Hicks AA, Hochner H, Huikuri H, Hunt SC, Jaddoe VWV, De Jager PL, Johannesson M, Johansson Å, Jonas JB, Jukema JW, Junttila J, Kaprio J, Kardia SLR, Karpe F, Kumari M, Laakso M, van der Laan SW, Lahti J, Laudes M, Lea RA, Lieb W, Lumley T, Martin NG, März W, Matullo G, McCarthy MI, Medland SE, Merriman TR, Metspalu A, Meyer BF, Mohlke KL, Montgomery GW, Mook-Kanamori D, Munroe PB, North KE, Nyholt DR, O'connell JR, Ober C, Oldehinkel AJ, Palmas W, Palmer C, Pasterkamp GG, Patin E, Pennell CE, Perusse L, Peyser PA, Pirastu M, Polderman TJC, Porteous DJ, Posthuma D, Psaty BM, Rioux JD, Rivadeneira F, Rotimi C, Rotter JI, Rudan I, Den Ruijter HM, Sanghera DK, Sattar N, Schmidt R, Schulze MB, Schunkert H, Scott RA, Shuldiner AR, Sim X, Small N, Smith JA, Sotoodehnia N, Tai ES, Teumer A, Timpson NJ, Toniolo D, Tregouet DA, Tuomi T, Vollenweider P, Wang CA, Weir DR, Whitfield JB, Wijmenga C, Wong TY, Wright J, Yang J, Yu L, Zemel BS, Zonderman AB, Perola M, Magnusson PKE, Uitterlinden AG, Kooner JS, Chasman DI, Loos RJF, Franceschini N, Franke L, Haley CS, Hayward C, Walters RG, Perry JRB, Esko T, Helgason A, Stefansson K, Joshi PK, Kubo M, Wilson JF. Associations of autozygosity with a broad range of human phenotypes. Nat Commun. 2019 Oct 31;10(1):4957.

38. Bowman P, Sulen A, Barbetti F, Beltrand J, Svalastoga P, Codner E, Tessmann EH, Juliusson PB, Skrivarhaug T, Pearson ER, Flanagan SE, Babiker T, Thomas NJ, Shepher MH, Ellard S, Klimes I, Szopa M, Polak M, Iafusco D, Hattersley AT, Njolstad PR; Neonatal Diabetes International Collaborative Group (including Tuomi T). Effectiveness and safety of long-term treatment with sulfonylureas in patients with neonatal diabetes due to KCNJ11 mutations: an international cohort study. Lancet Diabetes Endocrinol. 2018 Aug;6(8):637-646.

37. Flannick J, Fuchsberger C, Boehnke M, Gaulton K, Agarwala V, Kang HM, Burtt N, Ma C, Blackwell T, Locke A, Mccarthy D, Moutsianas L, Hartl C, Stitzel M, Parker S, Pearson R, Kumar A, Chines P, Jackson A, Stringham H, Teslovich T, Huyghe J, Sim X, Chen Y, Perry J, Rayner N, Robertson N, Rivas M, Morris A, Voight B, Lindgren C, van de Bunt M, Mahajan A, Green T, Ladenvall C, Fadista J, Kravic J, Lyssenko V, Bonnycastle L, Kinnunen L, Narisu N, Swift A, Small K, Owen K, Groves C, Roden M, Rathmann W, Herder C, Groop L, Nilsson P, Tuomi T, Tuomilehto J, Collins F, Watanabe R, Bergman R, Hattersley A, Frayling T, Spector T, Strauch K, Peters A, Gieger C, Loos R, Bottinger E, Lu Y, Gottesman O, Metspalu A, Ingelsson E, Lind L, Kwan P, Sladek R, Froguel P, Yengo L, Thuillier D, Cingolani P, Mägi R, Mihailov E, Meigs J, Dupuis J, Chen H, Rybin D, Meitinger T, Illig T, Grallert H, Mueller-Nurasyid M, Syvänen A, Giedraitis V, Seielstad M, Duggirala R, Blangero J, Hanis C, Cox N, Bell G, Gabriel S, Lander E, Poplin R, Banks E, Caulkins L, Maguire J, Shakir K, Fennell T, DePristo M, Buck D, Buck G, Trakalo J, Ried J, Huth C, Florez J, Mohlke K, McVean G, Scott L, Abecasis G,

Donnelly P, Prokopenko I, Strom T, McCarthy M, Altshuler D, Thorand B, Meisinger C, Hrabe de Angelis M, Langenberg C, Scott R, Wareham N, Balkau B, Boeing H, Franks P, Navarro C, Palli D, Koesterer R, Morris A, Koistinen H, Abboud H, DeFronzo RA, Manning A, Ayra R, Freedman B, Correa A, Doney A, Stančáková A, Hu C, Linneberg A, Rosengren A, Farmer A, Gjesing A, Gloyn A, Käräjämäki A, Kim YJ, Wood A, Butterworth A, Aung T, Glaser B, Lehne B, Neale B, Isomaa B, Han B-G, Carneiro M, Chandak G, Cheng C, Blancher C, Jenkinson C, Tam C, Palmer C, Christensen C, Curran J, Aguilar D, Bharadwaj D, Bowden D, Lee S, Pasko D, Prabhakaran D, Hodgkiss D, Chan E, Zeggini E, Gamazon E, E. Shyong T, Farjoun Y, Thameem F, Ferreira T, Fowler S, Hu FB, Karpe F, Surdulescu G, Grant G, Atzmon G, Jun G, Wilson G, Im HK, Hale D, Highland H, Taylor H, Huh I, Barroso I, Kwon M, Brandslund I, Bork-Jensen J, Carey J, Chan J, Danesh J, Smith J, Below J, Kriebel J, Fernandez-Tajes J, Wilson J, Lee J, Huang J, Kooner J, Howson J, Murphy J, Kuusisto J, Justesen J, Chambers J, Levy J, Yoon J, Scott J, Lee J, Ikram MK, Kim B, Kee Chia, Lin K, Khor CC, Jablonski K, Stirrups K, Park KS, Kumar S, Lannfelt L, Lee HM, Lee J, Lehman D, Hakaste L, Milani L, Liu J, Liang L, Wang X, Jørgensen M, Orho-Melander M, Laakso M, Walker M, Mangino M, Neville M, Hollensted M, Griswold M, Go M, Daly M, Loh M, Ng CY, Horikoshi M, Sandhu M, Allred N, Qi L, Beer N, Grarup N, Tandon N, Barzilai N, Melander O, Rolandsson O, Pedersen O, Onofrio R, Njølstad P, Hicks P, Chen P, Deloukas P, Elliott P, Qi Q, Rauramaa R, Ma R, Saleheen D, Ebrahim S, Purcell S, Kwak SH, Tan S, Musani S, Puppala S, Teo Y, Park T, Fingerlin T, Maxwell T, Kuulasmaa T, Esko T, Kim Y, Schwarzmayr T, Wieland T, Varga , Wong T, Lauritzen T, Hansen T, Jørgensen T, Pollin T, Afzal U, Salomaa V, Farook V, Lam V, Zhang W, Lim W, Welch R, So W, Jia W, Scott W, Cho YS, Nagai Y. Sequence data and association statistics from 12,940 type 2 diabetes cases and controls. Sci Data. 2017 Dec 19;4:170179. (Correction: Sci Data. 2018 Jan 23;5:180002)

36. 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 JRB, Rayner NW, Robertson NR, Scott LJ, van de Bunt M, Eriksson JG, Jula A, Koskinen S, Lehtimäki T, Palotie A, Raitakari OT, Jacobs SBR, 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 ASF, 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 MCY, 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-NurasyidM, Liang L, KriebelJ, 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, MelanderO, Orho-Melander M, BelowJE, AguilarD, Wong TY, LiuJ, KhorCC, ChiaKS, 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 RCW, McVeanG, ParkT, PrabhakaranD, Sandhu M, ScottJ, Sladek R, TandonN, Teo YY, Zeggini E, Watanabe RM, Koistinen HA, Kesaniemi YA, Uusitupa M, Spector TD, SalomaaV, RauramaaR, Palmer CNA, Prokopenko I, MorrisAD, 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 Jul;66(7):2019-2032.
35. 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-Hyövälti 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; Oct;48(10):1151-61.
34. Ng MC, Shriner D, Chen BH, Li J, Chen WM, Guo X, Liu J, Bielinski SJ, Yanek LR, Nalls MA, Comeau ME, Rasmussen-Torvik LJ, Jensen RA, Evans DS, Sun YV, An P, Patel SR, Lu Y, Long J, Armstrong LL, Wagenknecht L, Yang L, Snively BM, Palmer ND, Mudgal P, Langefeld CD, Keene KL, Freedman BI, Mychaleckyj JC, Nayak U, Raffel LJ, Goodarzi MO, Chen YD, Taylor HA Jr, Correa A, Sims M, Couper D, Pankow JS, Boerwinkle E, Adeyemo A, Doumatey A, Chen G, Mathias RA, Vaidya D, Singleton AB, Zonderman AB, Igo RP Jr, Sedor JR; FIND Consortium, Kabagambe EK, Siscovick DS, McKnight B, Rice K, Liu Y, Hsueh WC, Zhao W, Bielak LF, Kraja A, Province MA, Bottinger EP, Gottesman O, Cai Q, Zheng W, Blot WJ, Lowe WL, Pacheco JA, Crawford DC; eMERGE Consortium; DIAGRAM Consortium (including Tuomi T), Grundberg E; MuTHER Consortium, Rich SS, Hayes MG, Shu XO, Loos RJ, Borecki IB, Peyser PA, Cummings SR, Psaty BM, Fornage M, Iyengar SK, Evans MK, Becker DM, Kao WH, Wilson JG, Rotter JI, Sale MM, Liu S, Rotimi CN, Bowden DW. Meta-analysis of type 2 DIabetes in African Americans Consortium. Plos Genet. 2014 Aug 7;10(8):e1004517.
33. 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; GIANT Consortium (including Tuomi T). Quality control and

conduct of genome-wide association meta-analyses. Nat Protoc. 2014 May;9(5):1192-212.
32. Liu CT, Buchkovich ML, Winkler TW, Heid IM; African Ancestry Anthropometry Genetics Consortium; GIANT Consortium (including Tuomi T), Borecki IB, Fox CS, Mohlke KL, North KE, Adrienne Cupples L. Multi-ethnic fine-mapping of 14 central adiposity loci.Hum Mol Genet. 2014 Sep 1;23(17):4738-44.
31. Claussnitzer M, Dankel SN, Klocke B, Grallert H, Glunk V, Berulava T, Lee H, Oskolkov N, Fadista J, Ehlers K, Wahl S, Hoffmann C, Qian K, Rönn T, Riess H, Müller-Nurasyid M, Bretschneider N, Schroeder T, Skurk T, Horsthemke B; DIAGRAM Consortium (including Tuomi T), Spieler D, Klingenspor M, Seifert M, Kern MJ, Mejhert N, Dahlman I, Hansson O, Hauck SM, Blüher M, Arner P, Groop L, Illig T, Suhre K, Hsu YH, Mellgren G, Hauner H, Laumen H. Leveraging cross-species transcription factor binding site patterns: from diabetes risk loci to disease mechanisms. Cell. 2014: 156(1-2);343-58.
30. Hara K, Fujita H, Johnson TA, Yamauchi T, Yasuda K, Horikoshi M, Peng C, Hu C, Ma RC, Imamura M, Iwata M, Tsunoda T, Morizono T, Shojima N, So WY, Leung TF, Kwan P, Zhang R, Wang J, Yu W, Maegawa H, Hirose H; DIAGRAM consortium (including Tuomi T), Kaku K, Ito C, Watada H, Tanaka Y, Tobe K, Kashiwagi A, Kawamori R, Jia W, Chan JC, Teo YY, Shyong TE, Kamatani N, Kubo M, Maeda S, Kadowaki T. Genome-wide association study identifies three novel loci for type 2 diabetes. Hum Mol Genet. 2014: 23(1):239-46.
29. Wang SR, Agarwala V, Flannick J, Chiang CW, Altshuler D, GoT2D Consortium (including Tuomi T), Hirschhorn JN. Simulation of Finnish Population History, Guided by Empirical Genetic Data, to Assess Power of Rare-Variant Tests in Finland. The American Journal of Human Genetics, 2014: 94; 710–720.
28. DIAbetes Genetics Replication And Meta-analysis (DIAGRAM) Consortium; 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 Nex-generation sequencing in muylti-Ethnic Samples (T2D-GENES) Consortium, Mahajan A, Go MJ, Zhang W, Below JE, Gaulton KJ, 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 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, Kravic 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, Mühleisen 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, Segrè AV, Sehmi J, Sennblad B, Shah N, Shah S, Shera AS, Shu XO, Shuldiner AR, Sigurđsson G, Sijbrands E, Silveira A, Sim X, Sivapalaratnam S, Small KS, So WY, Stančáková A, Stefansson K, Steinbach G, Steinthorsdottir 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(3):234-44.

27. Evans DM, Brion MJ, Paternoster L, Kemp JP, McMahon G, Munafò M, Whitfield JB, Medland SE, Montgomery GW; GIANT Consortium (including Tuomi T); CRP Consortium; TAG Consortium, Timpson NJ, St Pourcain B, Lawlor DA, Martin NG, Dehghan A, Hirschhorn J, Davey Smith G. Mining the human phenome using allelic scores that index biological intermediates. PLoS Genet. 2013: 9(10); e1003919.

26. Prudente S, Copetti M, Morini E, Mendonca C, Andreozzi F, Chandalia M, Baratta R; DIAGRAM consortium (including Tuomi T), Pellegrini F, Mercuri L, Bailetti D, Abate N, Frittitta L, Sesti G, Florez JC, Doria A, Trischitta V. The SH2B1 obesity locus and abnormal glucose homeostasis: lack of evidence for association from a meta-analysis in individuals of European ancestry. Nutr Metab Cardiovasc Dis. 2013: 23(11);1043-9.

25. Vimaleswaran KS, Berry DJ, Lu C, Tikkanen E, Pilz S, Hiraki LT, Cooper JD, Dastani Z, Li R, Houston DK, Wood AR, Michaëlsson K, Vandenput L, Zgaga L, Yerges-Armstrong LM, McCarthy MI, Dupuis J, Kaakinen M, Kleber ME, Jameson K, Arden N, Raitakari O, Viikari J, Lohman KK, Ferrucci L, Melhus H, Ingelsson E, Byberg L, Lind L, Lorentzon M, Salomaa V, Campbell H, Dunlop M, Mitchell BD, Herzig KH, Pouta A, Hartikainen AL; GIANT Consortium (including Tuomi T), Streeten EA, Theodoratou E, Jula A, Wareham NJ, Ohlsson C, Frayling TM, Kritchevsky SB, Spector TD, Richards JB, Lehtimäki T, Ouwehand WH, Kraft P, Cooper C, März W, Power C, Loos RJ, Wang TJ, Järvelin MR, Whittaker JC, Hingorani AD, Hyppönen E. Causal relationship between obesity and vitamin D status: bi-directional Mendelian randomization analysis of multiple cohorts. PLoS Med. 2013;10(2):e1001383.

24. Li H, Gan W, Lu L, Dong X, Han X, Hu C, Yang Z, Sun L, Bao W, Li P, He M, Sun L, Wang Y, Zhu J, Ning Q, Tang Y, Zhang R, Wen J, Wang D, Zhu X, Guo K, Zuo X, Guo X, Yang H, Zhou X; DIAGRAM Consortium (including Tuomi T); AGEN-T2D Consortium, Zhang X, Qi L, Loos RJ, Hu FB, Wu T, Liu Y, Liu L, Yang Z, Hu R, Jia W, Ji L, Li Y, Lin X. A genome-wide association study identifies GRK5 and RASGRP1 as type 2 diabetes loci in Chinese Hans. Diabetes. 2013 Jan;62(1):291-8.

23. Tabassum R, Chauhan G, Dwivedi OP, Mahajan A, Jaiswal A, Kaur I, Bandesh K, Singh T, Mathai BJ, Pandey Y, Chidambaram M, Sharma A, Chavali S, Sengupta S, Ramakrishnan L, Venkatesh P, Aggarwal SK, Ghosh S, Prabhakaran D, Srinath RK, Saxena M, Banerjee M, Mathur S, Bhansali A, Shah VN, Madhu SV, Marwaha RK, Basu A, Scaria V, McCarthy MI; DIAGRAM (including Tuomi T); INDICO, Venkatesan R, Mohan V, Tandon N, Bharadwaj D. Genome-wide association study for type 2 diabetes in Indians identifies a new susceptibility locus at 2q21. Diabetes. 2013;62(3):977-86.

22. Saxena R, Saleheen D, Been LF, Garavito ML, Braun T, Bjonnes A, Young R, Ho WK, Rasheed A, Frossard P, Sim X, Hassanali N, Radha V, Chidambaram M, Liju S, Rees SD, Ng DP, Wong TY, Yamauchi T, Hara K, Tanaka Y, Hirose H, McCarthy MI, Morris AP; DIAGRAM (including Tuomi T); MuTHER; AGEN, Basit A, Barnett AH, Katulanda P, Matthews D, Mohan V, Wander GS, Singh JR, Mehra NK, Ralhan S, Kamboh MI, Mulvihill JJ, Maegawa H, Tobe K, Maeda S, Cho YS, Tai ES, Kelly MA, Chambers JC,

Kooner JS, Kadowaki T, Deloukas P, Rader DJ, Danesh J, Sanghera DK. Genome-wide association study identifies a novel locus contributing to type 2 diabetes susceptibility in Sikhs of Punjabi origin from India. Diabetes. 2013;62(5):1746-55.
21. Kelly MA, Rees SD, Hydrie MZ, Shera AS, Bellary S, O'Hare JP, Kumar S, Taheri S, Basit A, Barnett AH; DIAGRAM Consortium (including Tuomi T); SAT2D Consortium. Circadian gene variants and susceptibility to type 2 diabetes: a pilot study. PLoS One. 2012;7(4):e32670.
20. Manning AK, Hivert MF, Scott RA, (...), DIAbetes Genetics Replication And Meta-analysis (DIAGRAM) Consortium, (including Tuomi T); 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. Nature Genetics 2012;44(6):659-69.
19. Fox CS, Liu Y, White CC, Feitosa M, Smith AV, Heard-Costa N, Lohman K; GIANT Consortium; MAGIC Consortium (including Tuomi T); GLGC Consortium, Johnson AD, Foster MC, Greenawalt DM, Griffin P, Ding J, Newman AB, Tylavsky F, Miljkovic I, Kritchevsky SB, Launer L, Garcia M, Eiriksdottir G, Carr JJ, Gudnason V, Harris TB, Cupples LA, Borecki IB. Genome-wide association for abdominal subcutaneous and visceral adipose reveals a novel locus for visceral fat in women. PLoS Genet. 2012;8(5):e1002695.
18. Imamura M, Maeda S, Yamauchi T, Hara K, Yasuda K, Morizono T, Takahashi A, Horikoshi M, Nakamura M, Fujita H, Tsunoda T, Kubo M, Watada H, Maegawa H, Okada-Iwabu M, Iwabu M, Shojima N, Ohshige T, Omori S, Iwata M, Hirose H, Kaku K, Ito C, Tanaka Y, Tobe K, Kashiwagi A, Kawamori R, Kasuga M, Kamatani N; Diabetes Genetics Replication and Meta-analysis (DIAGRAM) Consortium (including Tuomi T), Nakamura Y, Kadowaki T. A single-nucleotide polymorphism in ANK1 is associated with susceptibility to type 2 diabetes in Japanese populations. Hum Mol Genet. 2012 Jul 1;21(13):3042-9.
17. Stahl EA, Wegmann D, Trynka G, Gutierrez-Achury J, Do R, Voight BF, Kraft P, Chen R, Kallberg HJ, Kurreeman FA; DIAGRAM Consortium (including Tuomi T); Myocardial Infarction Genetics Consortium, Kathiresan S, Wijmenga C, Gregersen PK, Alfredsson L, Siminovitch KA, Worthington J, de Bakker PI, Raychaudhuri S, Plenge RM. Bayesian inference analyses of the polygenic architecture of rheumatoid arthritis. Nat Genet. 2012 Mar 25;44(5):483-9.
16. Demirkan A, van Duijn CM, Ugocsai P, Isaacs A, Pramstaller PP, Liebisch G, Wilson JF, Johansson Å, Rudan I, Aulchenko YS, Kirichenko AV, Janssens AC, Jansen RC, Gnewuch C, Domingues FS, Pattaro C, Wild SH, Jonasson I, Polasek O, Zorkoltseva IV, Hofman A, Karssen LC, Struchalin M, Floyd J, Igl W, Biloglav Z, Broer L, Pfeufer A, Pichler I, Campbell S, Zaboli G, Kolcic I, Rivadeneira F, Huffman J, Hastie ND, Uitterlinden A, Franke L, Franklin CS, Vitart V; DIAGRAM Consortium (including Tuomi T), Nelson CP, Preuss M; CARDIoGRAM Consortium, Bis JC, O'Donnell CJ, Franceschini N; CHARGE Consortium, Witteman JC, Axenovich T, Oostra BA, Meitinger T, Hicks AA, Hayward C, Wright AF, Gyllensten U, Campbell H, Schmitz G; EUROSPAN consortium. Genome-wide association study identifies novel loci associated with circulating phospho- and sphingolipid concentrations. PLoS Genet. 2012;8(2):e1002490.
15. Dastani Z, Hivert MF, Timpson N, Perry JR, Yuan X, Scott RA, Henneman P, Heid IM, Kizer JR, Lyytikäinen LP, Fuchsberger C, Tanaka T, Morris AP, Small K, Isaacs A, Beekman M, Coassin S, Lohman K, Qi L, Kanoni S, Pankow JS, Uh HW, Wu Y, Bidulescu A, Rasmussen-Torvik LJ, Greenwood CM, Ladouceur M, Grimsby J, Manning AK, Liu CT, Kooner J, Mooser VE, Vollenweider P, Kapur KA, Chambers J, Wareham NJ, Langenberg C, Frants R, Willems-Vandijk K, Oostra BA, Willems SM, Lamina C, Winkler TW, Psaty BM, Tracy RP, Brody J, Chen I, Viikari J, Kähönen M, Pramstaller PP, Evans DM, St Pourcain B, Sattar N, Wood AR, Bandinelli S, Carlson OD, Egan JM, Böhringer S, van Heemst D, Kedenko L, Kristiansson K, Nuotio ML, Loo BM, Harris T, Garcia M, Kanaya A, Haun M, Klopp N, Wichmann HE, Deloukas P, Katsareli E, Couper DJ, Duncan BB, Kloppenburg M, Adair LS, Borja JB; DIAGRAM+ Consortium; MAGIC Consortium; GLGC Investigators; MuTHER Consortium, Wilson JG, Musani S, Guo X, Johnson T, Semple R, Teslovich TM, Allison MA,

Redline S, Buxbaum SG, Mohlke KL, Meulenbelt I, Ballantyne CM, Dedoussis GV, Hu FB, Liu Y, Paulweber B, Spector TD, Slagboom PE, Ferrucci L, Jula A, Perola M, Raitakari O, Florez JC, Salomaa V, Eriksson JG, Frayling TM, Hicks AA, Lehtimäki T, Smith GD, Siscovick DS, Kronenberg F, van Duijn C, Loos RJ, Waterworth DM, Meigs JB, Dupuis J, Richards JB, Voight BF, Scott LJ, Steinthorsdottir V, Dina C, Welch RP, Zeggini E, Huth C, Aulchenko YS, Thorleifsson G, McCulloch LJ, Ferreira T, Grallert H, Amin N, Wu G, Willer CJ, Raychaudhuri S, McCarroll SA, Hofmann OM, Segrè AV, van Hoek M, Navarro P, Ardlie K, Balkau B, Benediktsson R, Bennett AJ, Blagieva R, Boerwinkle E, Bonnycastle LL, Boström KB, Bravenboer B, Bumpstead S, Burtt NP, Charpentier G, Chines PS, Cornelis M, Crawford G, Doney AS, Elliott KS, Elliott AL, Erdos MR, Fox CS, Franklin CS, Ganser M, Gieger C, Grarup N, Green T, Griffin S, Groves CJ, Guiducci C, Hadjadj S, Hassanali N, Herder C, Isomaa B, Jackson AU, Johnson PR, Jørgensen T, Kao WH, Kong A, Kraft P, Kuusisto J, Lauritzen T, Li M, Lieverse A, Lindgren CM, Lyssenko V, Marre M, Meitinger T, Midthjell K, Morken MA, Narisu N, Nilsson P, Owen KR, Payne F, Petersen AK, Platou C, Proença C, Prokopenko I, Rathmann W, Rayner NW, Robertson NR, Rocheleau G, Roden M, Sampson MJ, Saxena R, Shields BM, Shrader P, Sigurdsson G, Sparsø T, Strassburger K, Stringham HM, Sun Q, Swift AJ, Thorand B, Tichet J, Tuomi T, van Dam RM, van Haeften TW, van Herpt T, van Vliet-Ostaptchouk JV, Walters GB, Weedon MN, Wijmenga C, Witteman J, Bergman RN, Cauchi S, Collins FS, Gloyn AL, Gyllensten U, Hansen T, Hide WA, Hitman GA, Hofman A, Hunter DJ, Hveem K, Laakso M, Morris AD, Palmer CN, Rudan I, Sijbrands E, Stein LD, Tuomilehto J, Uitterlinden A, Walker M, Watanabe RM, Abecasis GR, Boehm BO, Campbell H, Daly MJ, Hattersley AT, Pedersen O, Barroso I, Groop L, Sladek R, Thorsteinsdottir U, Wilson JF, Illig T, Froguel P, van Duijn CM, Stefansson K, Altshuler D, Boehnke M, McCarthy MI, Soranzo N, Wheeler E, Glazer NL, Bouatia-Naji N, Mägi R, Randall J, Elliott P, Rybin D, Dehghan A, Hottenga JJ, Song K, Goel A, Lajunen T, Doney A, Cavalcanti-Proença C, Kumari M, Timpson NJ, Zabena C, Ingelsson E, An P, O'Connell J, Luan J, Elliott A, McCarroll SA, Roccasecca RM, Pattou F, Sethupathy P, Ariyurek Y, Barter P, Beilby JP, Ben-Shlomo Y, Bergmann S, Bochud M, Bonnefond A, Borch-Johnsen K, Böttcher Y, Brunner E, Bumpstead SJ, Chen YD, Chines P, Clarke R, Coin LJ, Cooper MN, Crisponi L, Day IN, de Geus EJ, Delplanque J, Fedson AC, Fischer-Rosinsky A, Forouhi NG, Franzosi MG, Galan P, Goodarzi MO, Graessler J, Grundy S, Gwilliam R, Hallmans G, Hammond N, Han X, Hartikainen AL, Hayward C, Heath SC, Hercberg S, Hillman DR, Hingorani AD, Hui J, Hung J, Kaakinen M, Kaprio J, Kesaniemi YA, Kivimaki M, Knight B, Koskinen S, Kovacs P, Kyvik KO, Lathrop GM, Lawlor DA, Le Bacquer O, Lecoeur C, Li Y, Mahley R, Mangino M, Martínez-Larrad MT, McAteer JB, McPherson R, Meisinger C, Melzer D, Meyre D, Mitchell BD, Mukherjee S, Naitza S, Neville MJ, Orrù M, Pakyz R, Paolisso G, Pattaro C, Pearson D, Peden JF, Pedersen NL, Pfeiffer AF, Pichler I, Polasek O, Posthuma D, Potter SC, Pouta A, Province MA, Rayner NW, Rice K, Ripatti S, Rivadeneira F, Rolandsson O, Sandbaek A, Sandhu M, Sanna S, Sayer AA, Scheet P, Seedorf U, Sharp SJ, Shields B, Sigurðsson G, Sijbrands EJ, Silveira A, Simpson L, Singleton A, Smith NL, Sovio U, Swift A, Syddall H, Syvänen AC, Tönjes A, Uitterlinden AG, van Dijk KW, Varma D, Visvikis-Siest S, Vitart V, Vogelzangs N, Waeber G, Wagner PJ, Walley A, Ward KL, Watkins H, Wild SH, Willemsen G, Witteman JC, Yarnell JW, Zelenika D, Zethelius B, Zhai G, Zhao JH, Zillikens MC; DIAGRAM Consortium; GIANT Consortium; Global B Pgen Consortium, Borecki IB, Meneton P, Magnusson PK, Nathan DM, Williams GH, Silander K, Bornstein SR, Schwarz P, Spranger J, Karpe F, Shuldiner AR, Cooper C, Serrano-Ríos M, Lind L, Palmer LJ, Hu FB 1st, Franks PW, Ebrahim S, Marmot M, Kao WH, Pramstaller PP, Wright AF, Stumvoll M, Hamsten A; Procardis Consortium, Buchanan TA, Valle TT, Rotter JI, Penninx BW, Boomsma DI, Cao A, Scuteri A, Schlessinger D, Uda M, Ruokonen A, Jarvelin MR, Peltonen L, Mooser V, Sladek R; MAGIC investigators; GLGC Consortium, Musunuru K, Smith AV, Edmondson AC, Stylianou IM, Koseki M, Pirruccello JP, Chasman DI, Johansen CT, Fouchier SW, Peloso GM, Barbalic M, Ricketts SL, Bis JC, Feitosa MF, Orho-Melander M, Melander O, Li X, Li M, Cho YS, Go MJ, Kim YJ, Lee JY, Park T, Kim K, Sim X, Ong RT, Croteau-Chonka DC, Lange LA, Smith JD, Ziegler A, Zhang W, Zee RY, Whitfield JB, Thompson JR, Surakka I, Spector TD, Smit JH, Sinisalo J, Scott J, Saharinen J, Sabatti C, Rose LM, Roberts R, Rieder M, Parker AN, Pare G, O'Donnell CJ, Nieminen

MS, Nickerson DA, Montgomery GW, McArdle W, Masson D, Martin NG, Marroni F, Lucas G, Luben R, Lokki ML, Lettre G, Launer LJ, Lakatta EG, Laaksonen R, Kyvik KO, König IR, Khaw KT, Kaplan LM, Johansson Å, Janssens AC, Igl W, Hovingh GK, Hengstenberg C, Havulinna AS, Hastie ND, Harris TB, Haritunians T, Hall AS, Groop LC, Gonzalez E, Freimer NB, Erdmann J, Ejebe KG, Döring A, Dominiczak AF, Demissie S, Deloukas P, de Faire U, Crawford G, Chen YD, Caulfield MJ, Boekholdt SM, Assimes TL, Quertermous T, Seielstad M, Wong TY, Tai ES, Feranil AB, Kuzawa CW, Taylor HA Jr, Gabriel SB, Holm H, Gudnason V, Krauss RM, Ordovas JM, Munroe PB, Kooner JS, Tall AR, Hegele RA, Kastelein JJ, Schadt EE, Strachan DP, Reilly MP, Samani NJ, Schunkert H, Cupples LA, Sandhu MS, Ridker PM, Rader DJ, Kathiresan S. Novel loci for adiponectin levels and their influence on type 2 diabetes and metabolic traits: a multi-ethnic meta-analysis of 45,891 individuals. PLoS Genet. 2012;8(3):e1002607.

14. Marquez M, Huyvaert M, Perry JR, Pearson RD, Falchi M, Morris AP, Vivequin S, Lobbens S, Yengo L, Gaget S, Pattou F, Poulain-Godefroy O, Charpentier G, Carlsson LM, Jacobson P, Sjöström L, Lantieri O, Heude B, Walley A, Balkau B, Marre M, Froguel P, Cauchi S; DIAGRAM Consortium (including Tuomi T). Low-frequency variants in HMGA1 are not associated with type 2 diabetes risk. Diabetes. 2012 Feb;61(2):524-30.

13. Cho YS, Chen CH, Hu C, Long J, Ong RT, Sim X, Takeuchi F, Wu Y, Go MJ, Yamauchi T, Chang YC, Kwak SH, Ma RC, Yamamoto K, Adair LS, Aung T, Cai Q, Chang LC, Chen YT, Gao Y, Hu FB, Kim HL, Kim S, Kim YJ, Lee JJ, Lee NR, Li Y, Liu JJ, Lu W, Nakamura J, Nakashima E, Ng DP, Tay WT, Tsai FJ, Wong TY, Yokota M, Zheng W, Zhang R, Wang C, So WY, Ohnaka K, Ikegami H, Hara K, Cho YM, Cho NH, Chang TJ, Bao Y, Hedman ÅK, Morris AP, McCarthy MI; DIAGRAM Consortium (including Tuomi T); MuTHER Consortium, Takayanagi R, Park KS, Jia W, Chuang LM, Chan JC, Maeda S, Kadowaki T, Lee JY, Wu JY, Teo YY, Tai ES, Shu XO, Mohlke KL, Kato N, Han BG, Seielstad M. Meta-analysis of genome-wide association studies identifies eight new loci for type 2 diabetes in east Asians. Nat Genet. 2011 Dec 11;44(1):67-72.

12. Speliotes EK, Yerges-Armstrong LM, Wu J, Hernaez R, Kim LJ, Palmer CD, Gudnason V, Eiriksdottir G, Garcia ME, Launer LJ, Nalls MA, Clark JM, Mitchell BD, Shuldiner AR, Butler JL, Tomas M, Hoffmann U, Hwang SJ, Massaro JM, O'Donnell CJ, Sahani DV, Salomaa V, Schadt EE, Schwartz SM, Siscovick DS; NASH CRN; GIANT Consortium; MAGIC Investigators (including Tuomi T), Voight BF, Carr JJ, Feitosa MF, Harris TB, Fox CS, Smith AV, Kao WH, Hirschhorn JN, Borecki IB; GOLD Consortium. Genome-wide association analysis identifies variants associated with nonalcoholic fatty liver disease that have distinct effects on metabolic traits. PLoS Genet. 2011; 7(3):e1001324.

11. Zhu H, Shyh-Chang N, Segrè AV, Shinoda G, Shah SP, Einhorn WS, Takeuchi A, Engreitz JM, Hagan JP, Kharas MG, Urbach A, Thornton JE, Triboulet R, Gregory RI; DIAGRAM Consortium; MAGIC Investigators (including Tuomi T), Altshuler D, Daley GQ. The Lin28/let-7 axis regulates glucose metabolism. Cell. 2011; 147(1):81-94.

10. Small KS, Hedman AK, Grundberg E, Nica AC, Thorleifsson G, Kong A, Thorsteindottir U, Shin SY, Richards HB; GIANT Consortium; MAGIC Investigators; DIAGRAM Consortium (including Tuomi T), Soranzo N, Ahmadi KR, Lindgren CM, Stefansson K, Dermitzakis ET, Deloukas P, Spector TD, McCarthy MI; MuTHER Consortium. Identification of an imprinted master trans regulator at the KLF14 locus related to multiple metabolic phenotypes. Nat Genet. 2011 Jun;43(6):561-4.

9. Chambers JC, Zhang W, Sehmi J, Li X, Wass MN, Van der Harst P, Holm H, Sanna S, Kavousi M, Baumeister SE, Coin LJ, Deng G, Gieger C, Heard-Costa NL, Hottenga JJ, Kühnel B, Kumar V, Lagou V, Liang L, Luan J, Vidal PM, Mateo Leach I, O'Reilly PF, Peden JF, Rahmioglu N, Soininen P, Speliotes EK, Yuan X, Thorleifsson G, Alizadeh BZ, Atwood LD, Borecki IB, Brown MJ, Charoen P, Cucca F, Das D, de Geus EJ, Dixon AL, Döring A, Ehret G, Eyjolfsson GI, Farrall M, Forouhi NG, Friedrich N, Goessling W, Gudbjartsson DF, Harris TB, Hartikainen AL, Heath S, Hirschfield GM, Hofman A, Homuth G, Hyppönen E, Janssen HL, Johnson T, Kangas AJ, Kema IP, Kühn JP, Lai S, Lathrop M, Lerch MM, Li Y, Liang TJ, Lin JP, Loos RJ, Martin NG, Moffatt MF, Montgomery GW, Munroe PB, Musunuru K, Nakamura Y, O'Donnell CJ, Olafsson I, Penninx BW, Pouta A, Prins BP, Prokopenko I, Puls R, Ruokonen

A, Savolainen MJ, Schlessinger D, Schouten JN, Seedorf U, Sen-Chowdhry S, Siminovitch KA, Smit JH, Spector TD, Tan W, Teslovich TM, Tukiainen T, Uitterlinden AG, Van der Klauw MM, Vasan RS, Wallace C, Wallaschofski H, Wichmann HE, Willemsen G, Würtz P, Xu C, Yerges-Armstrong LM; Alcohol Genome-wide Association (AlcGen) Consortium; Diabetes Genetics Replication and Meta-analyses (DIAGRAM+) Study; Genetic Investigation of Anthropometric Traits (GIANT) Consortium; Global Lipids Genetics Consortium; Genetics of Liver Disease (GOLD) Consortium; International Consortium for Blood Pressure (ICBP-GWAS); Meta-analyses of Glucose and Insulin-Related Traits Consortium (MAGIC) (including Tuomi T), Abecasis GR, Ahmadi KR, Boomsma DI, Caulfield M, Cookson WO, van Duijn CM, Froguel P, Matsuda K, McCarthy MI, Meisinger C, Mooser V, Pietiläinen KH, Schumann G, Snieder H, Sternberg MJ, Stolk RP, Thomas HC, Thorsteinsdottir U, Uda M, Waeber G, Wareham NJ, Waterworth DM, Watkins H, Whitfield JB, Witteman JC, Wolffenbuttel BH, Fox CS, Ala-Korpela M, Stefansson K, Vollenweider P, Völzke H, Schadt EE, Scott J, Järvelin MR, Elliott P, Kooner JS. Genome-wide association study identifies loci influencing concentrations of liver enzymes in plasma. Nat Genet. 2011; 43(11):1131-8.

8. Perry JR, Weedon MN, Langenberg C, Jackson AU, Lyssenko V, Sparsø T, Thorleifsson G, Grallert H, Ferrucci L, Maggio M, Paolisso G, Walker M, Palmer CN, Payne F, Young E, Herder C, Narisu N, Morken MA, Bonnycastle LL, Owen KR, Shields B, Knight B, Bennett A, Groves CJ, Ruokonen A, Jarvelin MR, Pearson E, Pascoe L, Ferrannini E, Bornstein SR, Stringham HM, Scott LJ, Kuusisto J, Nilsson P, Neptin M, Gjesing AP, Pisinger C, Lauritzen T, Sandbaek A, Sampson M; MAGIC (including Tuomi T), Zeggini E, Lindgren CM, Steinthorsdottir V, Thorsteinsdottir U, Hansen T, Schwarz P, Illig T, Laakso M, Stefansson K, Morris AD, Groop L, Pedersen O, Boehnke M, Barroso I, Wareham NJ, Hattersley AT, McCarthy MI, Frayling TM. Genetic evidence that raised sex hormone binding globulin (SHBG) levels reduce the risk of type 2 diabetes. Hum Mol Genet 2010; 19;535-44.

7. Nettleton JA, McKeown NM, Kanoni S, Lemaitre RN, Hivert MF, Ngwa J, van Rooij FJ, Sonestedt E, Wojczynski MK, Ye Z, Tanaka T, Garcia M, Anderson JS, Follis JL, Djousse L, Mukamal K, Papoutsakis C, Mozaffarian D, Zillikens MC, Bandinelli S, Bennett AJ, Borecki IB, Feitosa MF, Ferrucci L, Forouhi NG, Groves CJ, Hallmans G, Harris T, Hofman A, Houston DK, Hu FB, Johansson I, Kritchevsky SB, Langenberg C, Launer L, Liu Y, Loos RJ, Nalls M, Orho-Melander M, Renstrom F, Rice K, Riserus U, Rolandsson O, Rotter JI, Saylor G, Sijbrands EJ, Sjogren P, Smith A, Steingrímsdóttir L, Uitterlinden AG, Wareham NJ, Prokopenko I, Pankow JS, van Duijn CM, Florez JC, Witteman JC; MAGIC Investigators (including Tuomi T), Dupuis J, Dedoussis GV, Ordovas JM, Ingelsson E, Cupples L, Siscovick DS, Franks PW, Meigs JB. Interactions of dietary whole-grain intake with fasting glucose- and insulin-related genetic loci in individuals of European descent: a meta-analysis of 14 cohort studies. Diabetes Care. 2010 Dec;33(12):2684-91.

6. Speliotes EK, Willer CJ, Berndt SI, Monda KL, Thorleifsson G, Jackson AU, Allen HL, Lindgren CM, Luan J, Magi R, Randall JC, Vedantam S, Winkler TW, Qi L, Workalemahu T, Heid IM, Steinthorsdottir V, Stringham HM, Weedon MN, Wheeler E, Wood AR, Ferreira T, Weyant RJ, Segre AV, Estrada K, Liang L, Nemesh J, Park JH, Gustafsson S, Kilpelainen TO, Yang J, Bouatia-Naji N, Esko T, Feitosa MF, Kutalik Z, Mangino M, Raychaudhuri S, Scherag A, Smith AV, Welch R, Zhao JH, Aben KK, Absher DM, Amin N, Dixon AL, Fisher E, Glazer NL, Goddard ME, Heard-Costa NL, Hoesel V, Hottenga JJ, Johansson A, Johnson T, Ketkar S, Lamina C, Li S, Moffatt MF, Myers RH, Narisu N, Perry JR, Peters MJ, Preuss M, Ripatti S, Rivadeneira F, Sandholt C, Scott LJ, Timpson NJ, Tyrer JP, van Wingerden S, Watanabe RM, White CC, Wiklund F, Barlassina C, Chasman DI, Cooper MN, Jansson JO, Lawrence RW, Pellikka N, Prokopenko I, Shi J, Thiering E, Alavere H, Alibrandi MT, Almgren P, Arnold AM, Aspelund T, Atwood LD, Balkau B, Balmforth AJ, Bennett AJ, Ben-Shlomo Y, Bergman RN, Bergmann S, Biebermann H, Blakemore AI, Boes T, Bonnycastle LL, Bornstein SR, Brown MJ, Buchanan TA, Busonero F, Campbell H, Cappuccio FP, Cavalcanti-Proenca C, Chen YD, Chen CM, Chines PS, Clarke R, Coin L, Connell J, Day IN, Heijer M, Duan J, Ebrahim S, Elliott P, Elosua R, Eiriksdottir G, Erdos MR, Eriksson JG, Facheris MF, Felix SB, Fischer-Posovszky P, Folsom AR, Friedrich N, Freimer NB, Fu M, Gaget S, Gejman PV, Geus EJ, Gieger C, Gjesing AP, Goel A, Goyette P, Grallert H, Grassler J, Greenawalt DM, Groves CJ, Gudnason V, Guiducci C, Hartikainen AL,

Hassanali N, Hall AS, Havulinna AS, Hayward C, Heath AC, Hengstenberg C, Hicks AA, Hinney A, Hofman A, Homuth G, Hui J, Igl W, Iribarren C, Isomaa B, Jacobs KB, Jarick I, Jewell E, John U, Jorgensen T, Jousilahti P, Jula A, Kaakinen M, Kajantie E, Kaplan LM, Kathiresan S, Kettunen J, Kinnunen L, Knowles JW, Kolcic I, Konig IR, Koskinen S, Kovacs P, Kuusisto J, Kraft P, Kvaloy K, Laitinen J, Lantieri O, Lanzani C, Launer LJ, Lecoeur C, Lehtimaki T, Lettre G, Liu J, Lokki ML, Lorentzon M, Luben RN, Ludwig B, MAGIC, Manunta P, Marek D, Marre M, Martin NG, McArdle WL, McCarthy A, McKnight B, Meitinger T, Melander O, Meyre D, Midthjell K, Montgomery GW, Morken MA, Morris AP, Mulic R, Ngwa JS, Nelis M, Neville MJ, Nyholt DR, O'Donnell CJ, O'Rahilly S, Ong KK, Oostra B, Pare G, Parker AN, Perola M, Pichler I, Pietilainen KH, Platou CG, Polasek O, Pouta A, Rafelt S, Raitakari O, Rayner NW, Ridderstrale M, Rief W, Ruokonen A, Robertson NR, Rzehak P, Salomaa V, Sanders AR, Sandhu MS, Sanna S, Saramies J, Savolainen MJ, Scherag S, Schipf S, Schreiber S, Schunkert H, Silander K, Sinisalo J, Siscovick DS, Smit JH, Soranzo N, Sovio U, Stephens J, Surakka I, Swift AJ, Tammesoo ML, Tardif JC, Teder-Laving M, Teslovich TM, Thompson JR, Thomson B, Tonjes A, Tuomi T, van Meurs JB, van Ommen GJ, Vatin V, Viikari J, Visvikis-Siest S, Vitart V, Vogel CI, Voight BF, Waite LL, Wallaschofski H, Walters GB, Widen E, Wiegand S, Wild SH, Willemsen G, Witte DR, Witteman JC, Xu J, Zhang Q, Zgaga L, Ziegler A, Zitting P, Beilby JP, Farooqi IS, Hebebrand J, Huikuri HV, James AL, Kahonen M, Levinson DF, Macciardi F, Nieminen MS, Ohlsson C, Palmer LJ, Ridker PM, Stumvoll M, Beckmann JS, Boeing H, Boerwinkle E, Boomsma DI, Caulfield MJ, Chanock SJ, Collins FS, Cupples LA, Smith GD, Erdmann J, Froguel P, Gronberg H, Gyllensten U, Hall P, Hansen T, Harris TB, Hattersley AT, Hayes RB, Heinrich J, Hu FB, Hveem K, Illig T, Jarvelin MR, Kaprio J, Karpe F, Khaw KT, Kiemeney LA, Krude H, Laakso M, Lawlor DA, Metspalu A, Munroe PB, Ouwehand WH, Pedersen O, Penninx BW, Peters A, Pramstaller PP, Quertermous T, Reinehr T, Rissanen A, Rudan I, Samani NJ, Schwarz PE, Shuldiner AR, Spector TD, Tuomilehto J, Uda M, Uitterlinden A, Valle TT, Wabitsch M, Waeber G, Wareham NJ, Watkins H, Procardis Consortium, Wilson JF, Wright AF, Zillikens MC, Chatterjee N, McCarroll SA, Purcell S, Schadt EE, Visscher PM, Assimes TL, Borecki IB, Deloukas P, Fox CS, Groop LC, Haritunians T, Hunter DJ, Kaplan RC, Mohlke KL, O'Connell JR, Peltonen L, Schlessinger D, Strachan DP, van Duijn CM, Wichmann HE, Frayling TM, Thorsteinsdottir U, Abecasis GR, Barroso I, Boehnke M, Stefansson K, North KE, McCarthy MI, Hirschhorn JN, Ingelsson E, Loos RJ. Association analyses of 249,796 individuals reveal 18 new loci associated with body mass index. Nature Genetics 2010; 42(11):937-48.

5. Heid IM, Jackson AU, Randall JC, Winkler TW, Qi L, Steinthorsdottir V, Thorleifsson G, Zillikens MC, Speliotes EK, Magi R, Workalemahu T, White CC, Bouatia-Naji N, Harris TB, Berndt SI, Ingelsson E, Willer CJ, Weedon MN, Luan J, Vedantam S, Esko T, Kilpelainen TO, Kutalik Z, Li S, Monda KL, Dixon AL, Holmes CC, Kaplan LM, Liang L, Min JL, Moffatt MF, Molony C, Nicholson G, Schadt EE, Zondervan KT, Feitosa MF, Ferreira T, Allen HL, Weyant RJ, Wheeler E, Wood AR, MAGIC, Estrada K, Goddard ME, Lettre G, Mangino M, Nyholt DR, Purcell S, Smith AV, Visscher PM, Yang J, McCarroll SA, Nemesh J, Voight BF, Absher D, Amin N, Aspelund T, Coin L, Glazer NL, Hayward C, Heard-Costa NL, Hottenga JJ, Johansson A, Johnson T, Kaakinen M, Kapur K, Ketkar S, Knowles JW, Kraft P, Kraja AT, Lamina C, Leitzmann MF, McKnight B, Morris AP, Ong KK, Perry JR, Peters MJ, Polasek O, Prokopenko I, Rayner NW, Ripatti S, Rivadeneira F, Robertson NR, Sanna S, Sovio U, Surakka I, Teumer A, van Wingerden S, Vitart V, Zhao JH, Cavalcanti-Proenca C, Chines PS, Fisher E, Kulzer JR, Lecoeur C, Narisu N, Sandholt C, Scott LJ, Silander K, Stark K, Tammesoo ML, Teslovich TM, Timpson NJ, Watanabe RM, Welch R, Chasman DI, Cooper MN, Jansson JO, Kettunen J, Lawrence RW, Pellikka N, Perola M, Vandenput L, Alavere H, Almgren P, Atwood LD, Bennett AJ, Biffar R, Bonnycastle LL, Bornstein SR, Buchanan TA, Campbell H, Day IN, Dei M, Dorr M, Elliott P, Erdos MR, Eriksson JG, Freimer NB, Fu M, Gaget S, Geus EJ, Gjesing AP, Grallert H, Grassler J, Groves CJ, Guiducci C, Hartikainen AL, Hassanali N, Havulinna AS, Herzig KH, Hicks AA, Hui J, Igl W, Jousilahti P, Jula A, Kajantie E, Kinnunen L, Kolcic I, Koskinen S, Kovacs P, Kroemer HK, Krzelj V, Kuusisto J, Kvaloy K, Laitinen J, Lantieri O, Lathrop GM, Lokki ML, Luben RN, Ludwig B, McArdle WL, McCarthy A, Morken MA, Nelis M, Neville MJ, Pare G, Parker AN, Peden JF, Pichler I, Pietilainen KH, Platou CG, Pouta A, Ridderstrale M, Samani NJ, Saramies J, Sinisalo J, Smit JH, Strawbridge RJ,

Stringham HM, Swift AJ, Teder-Laving M, Thomson B, Usala G, van Meurs JB, van Ommen GJ, Vatin V, Volpato CB, Wallaschofski H, Walters GB, Widen E, Wild SH, Willemsen G, Witte DR, Zgaga L, Zitting P, Beilby JP, James AL, Kahonen M, Lehtimaki T, Nieminen MS, Ohlsson C, Palmer LJ, Raitakari O, Ridker PM, Stumvoll M, Tonjes A, Viikari J, Balkau B, Ben-Shlomo Y, Bergman RN, Boeing H, Smith GD, Ebrahim S, Froguel P, Hansen T, Hengstenberg C, Hveem K, Isomaa B, Jorgensen T, Karpe F, Khaw KT, Laakso M, Lawlor DA, Marre M, Meitinger T, Metspalu A, Midthjell K, Pedersen O, Salomaa V, Schwarz PE, Tuomi T, Tuomilehto J, Valle TT, Wareham NJ, Arnold AM, Beckmann JS, Bergmann S, Boerwinkle E, Boomsma DI, Caulfield MJ, Collins FS, Eiriksdottir G, Gudnason V, Gyllensten U, Hamsten A, Hattersley AT, Hofman A, Hu FB, Illig T, Iribarren C, Jarvelin MR, Kao WH, Kaprio J, Launer LJ, Munroe PB, Oostra B, Penninx BW, Pramstaller PP, Psaty BM, Quertermous T, Rissanen A, Rudan I, Shuldiner AR, Soranzo N, Spector TD, Syvanen AC, Uda M, Uitterlinden A, Volzke H, Vollenweider P, Wilson JF, Witteman JC, Wright AF, Abecasis GR, Boehnke M, Borecki IB, Deloukas P, Frayling TM, Groop LC, Haritunians T, Hunter DJ, Kaplan RC, North KE, O'Connell JR, Peltonen L, Schlessinger D, Strachan DP, Hirschhorn JN, Assimes TL, Wichmann HE, Thorsteinsdottir U, van Duijn CM, Stefansson K, Cupples LA, Loos RJ, Barroso I, McCarthy MI, Fox CS, Mohlke KL, Lindgren CM. Meta-analysis identifies 13 novel loci associated with waist-hip ratio and reveals sexual dimorphism in the genetic basis of fat distribution. Nature Genetics 2010; 42(11):949-60. (Correction 2011; 43;11:1164)

4. Richards JB, Waterworth D, O'Rahilly S, Hivert MF, Loos RJ, Perry JR, Tanaka T, Timpson NJ, Semple RK, Soranzo N, Song K, Rocha N, Grundberg E, Dupuis J, Florez JC, Langenberg C, Prokopenko I, Saxena R, Sladek R, Aulchenko Y, Evans D, Waeber G, Erdmann J, Burnett MS, Sattar N, Devaney J, Willenborg C, Hingorani A, Witteman JC, Vollenweider P, Glaser B, Hengstenberg C, Ferrucci L, Melzer D, Stark K, Deanfield J, Winogradow J, Grassl M, Hall AS, Egan JM, Thompson JR, Ricketts SL, Konig IR, Reinhard W, Grundy S, Wichmann HE, Barter P, Mahley R, Kesaniemi YA, Rader DJ, Reilly MP, Epstein SE, Stewart AF, Van Duijn CM, Schunkert H, Burling K, Deloukas P, Pastinen T, Samani NJ, McPherson R, Davey Smith G, Frayling TM, Wareham NJ, Meigs JB, Mooser V, Spector TD, GIANT Consortium (including Tuomi T). A genome-wide association study reveals variants in ARL15 that influence adiponectin levels. PLoS Genetics, 2009; 5(12):e1000768.

3. Kong A, Steinthorsdottir V, Masson G, Thorleifsson G, Sulem P, Besenbacher S, Jonasdottir A, Sigurdsson A, Kristinsson K Th. Jonasdottir A, Frigge ML, Gylfason A, Olason PI, Gudjonsson SA, Sverrisson S, Stacey SN, Sigurgeirsson B, Benediktsdottir KR, Sigurdsson H, Jonsson T, Benediktsson R, Olafsson JH, Johannsson O Th, Hreidarsson AB, Sigurdsson G, the DIAGRAM Consortium Kong A, Steinthorsdottir V, Masson G, Thorleifsson G, Sulem P, Besenbacher S, Jonasdottir A, Sigurdsson A, Kristinsson K Th. Jonasdottir A, Frigge ML, Gylfason A, Olason PI, Gudjonsson SA, Sverrisson S, Stacey SN, Sigurgeirsson B, Benediktsdottir KR, Sigurdsson H, Jonsson T, Benediktsson R, Olafsson JH, Johannsson O Th, Hreidarsson AB, Sigurdsson G, the DIAGRAM Consortium (including Tuomi T), Ferguson-Smith AC, Gudbjartsson DF, Thorsteinsdottir U, Stefansson K. Parental origin of sequence variants associated with complex diseases. Nature, 2009; 462(7275):868-74.

2. Guan W, Pluzhnikov A, Cox NJ, Boehnke M, for the International Type 2 Diabetes Linkage Analysis Consortium (including Tuomi T). Meta-Analysis of 23 Type 2 Diabetes Linkage Studies from the International Type 2 Diabetes Linkage Analysis Consortium. Human Heredity 2008; 66: 35-49.

1. McAteer JB, Prudente S, Bacci S, Lyon HN, Hirschhorn JN, Trischitta V, Florez JC; ENPP1 Consortium (including Tuomi T). The ENPP1 K121Q polymorphism is associated with type 2 diabetes in European populations: evidence from an updated meta-analysis in 42,042 subjects. Diabetes. 2008 Apr;57(4):1125-30.

Review articles, editorials, case reports, letters in international journals:

19. Prasad RB, Hakaste L, Tuomi T. Clinical use of polygenic scores in type 2 diabetes: challenges and possibilities. Diabetologia. 2025 Jul;68(7):1361-1374.

18. Bergman M, Manco M, Satman I, Chan J, Inês Schmidt M, Sesti G, Vanessa Fiorentino T, Abdul-Ghani M, Jagannathan R, Kumar Thyparambil Aravindakshan P, Gabriel R, Mohan V, Buysschaert M, Bennakhi A, Pascal Kengne A, Dorcely B, Nilsson PM, Tuomi T, Battelino T, Hussain A, Ceriello A, Tuomilehto J. International Diabetes Federation Position Statement on the 1-hour post-load plasma glucose for the diagnosis of intermediate hyperglycaemia and type 2 diabetes. Diabetes Res Clin Pract. 2024 Mar 6:111589. doi: 10.1016/j.diabres.2024.111589. Epub ahead of print.
17. Naylor RN, Patel KA, Kettunen J, Männistö JME*, Støy J*, Beltrand J, Polak M; ADA/EASD PMDI; Vilsbøll T, Greeley SAW, Hattersley AT#, Tuomi T#. Precision treatment of beta-cell monogenic diabetes: a systematic review. Commun Med (Lond). 2024 Jul 18;4(1):145. doi: 10.1038/s43856-024-00556-1.*# shared contribution
16. Buzzetti R, Tuomi T, Mauricio D, Pietropaolo M, Zhou Z, Pozzilli P, Leslie RD. Management of Latent Autoimmune Diabetes in Adults: A Consensus Statement from an International Expert Panel. Diabetes 2020 Oct;69(10):2037-2047.
15. Kettunen J. and Tuomi T. Human physiology of genetic defects causing beta-cell dysfunction. J Mol Biol. 2020 Mar 6;432(5):1579-1598. (Review)
14. Ahlqvist E, Tuomi T, Groop L. Clusters provide a better holistic view of type 2 diabetes than simple clinical features. Lancet Diabetes Endocrinol. 2019 Sep;7(9):668-669. (Letter)
13. Ahlqvist E, Prasad RB, Tuomi T, Rosengen A, Groop L. Novel diabetes subgroups – Authors' reply. Lancet Diabetes Endocrinol. 2018 Jun;6(6):440-441. (Response letter)
12. Tuomi T, Santoro N, Caprio S, Cai M, Weng J, Groop L. The many faces of diabetes: a disease with increasing heterogeneity. Lancet 2014; 383: 1084–94.
13. Lindsberg P, Tuomi T, Kaste M. Oral glucose tolerance test should be performed after stroke and transient ischemic attack. International Journal of Stroke, 2011; 6:317-320.
10. Tuomi T, Andersen M, Lundgren V. LADA – is it distinct from type 1 diabetes? International Diabetes Monitor, 2010; 22(3): 128-131.
9. Groop L, Tuomi T, Isomaa B, Lyssenko V, Orho-Melander M, Taskinen M-R for the Botnia Study Group. The Botnia study – on the trail of type 2 diabetes. International Diabetes Monitor 2008: 20 (2): 73- 81.
8. Groop L, Tuomi T, Rowley M, Zimmet P, Mackay I. Latent autoimmune diabetes in adults (LADA) - more than a name. Diabetologia 2006; 49(9):1996-1998.
7. Tuomi T. Type 1 and Type 2 diabetes. What do they have in common? Diabetes 2005; 54 (Suppl 2): S40-S45.
6. Tuomi T. LADA in adults – How does it differ from Type 1 diabetes? International Diabetes Monitor 2005: 17 (2): 1-6.
5. Tuomi T, Groop L. Intrauterine hyperglycemia modifying the development of (monogenic) diabetes? Diabetes Care 2003; 26 (4), 1295-6.
4. Groop LC, Tuomi T. Non-insulin-dependent diabetes mellitus - a collision between thrifty genes and affluent society. Ann Med, 1997; 29: 37-53.
3. Tuomi T, Zimmet PZ, Rowley MJ, Serjeantson SW, Mackay IR. Persisting antibodies to GAD in IDDM are not associated with neuropathy. Diabetologia 1993; 36: 685. (Letter).
2. Ailus K, Melamies L, Tuomi T, Palosuo T, Aho K. IgM-rheumatoid factors measured by ELISA in non-rheumatoid sera: comparison of human and rabbit Fc fragments as antigens. Br J Rheumatol 1992; 31: 141. (Letter).
1. Aho K, Palosuo T, Raunio V, Tuomi T. The timing of rheumatoid factor seroconversions. Arthritis Rheum 1987; 30: 719-20. (Letter)

Review articles, editorials, case reports, letters (in Finnish/Swedish):

30. Kettunen J., Tuomi T. Monogeeninen diabetes. Duodecim 2024; 140; 16: 1345-1351. (Katsaus)
29. Paajanen H, Tuomi T. Munuaispotilaiden diabeteksen glukoositasapainon hoito. Duodecim 2019;135(4):385-91. (Katsaus)
28. Kettunen J, Miettinen PJ, Laitinen K, Tikkanen M, Tuomi T. MODY-diabetes ja raskaus. Duodecim 2018;134(20):2015-23. (Katsaus)
27. Matikainen N, Parviainen H, Lindsberg PJ ja Tuomi T. Parkkis vai kalkkis? Duodecim 2018;134(7):741. (Case report)

26. Laakso M, Groop L, Isomaa B, Honkasalo M, Juselius P, Lindström J, Meinander T, Nuutinen H, Saltevo J, Syvänne M, Tuomi T. Käypä hoito –suositus: Diabetes. Päivitystiivistelmä. Duodecim 2018;134(9):979-80.
25. Tuomi T (pj.), Antikainen A, Honkasalo M, Härmä-Rodriguez S, Ilanne-Parikka P, Meinander T, (Käypä hoito -toimittaja), Nuutinen H, Rautavirta M, Rautiainen P, Suokas J, Tuomaala A-K. Tyypin 2 diabetes. Käypä hoito -suositus. Suomalaisen Lääkäriseuran Duodecimin, Suomen Sisätautilääkärien yhdistyksen ja Diabetesliiton Lääkärineuvoston asettama työryhmä. Helsinki: Suomalainen Lääkäriseura Duodecim, 2018. Saatavilla internetissä: www.kaypahoito.fi
24. Laakso M, Groop L, Isomaa B, Honkasalo M, Juselius P, Lindström J, Meinander T, Nuutinen H, Saltevo J, Syvänne M, Tuomi T. Käypähoito -suositus: Diabetes. Duodecim. 2016;132(9):881-2.
23. Tuomi T. Viikon kollega artikkeli: Timo Sane: "Endokriinisten sairauksien diagnostiikka lähtee useimmiten potilaan anamneesista ja statuksesta". Duodecim 2015;131(12):1204-5.
22. Tuomi T. ja Keskinen P. Hypoglykemiat hoito-ongelmana tyypin 1 diabeteksessa? Duodecim 2014;130(12):1245-52.
21. Tuomi T. ja Saraheimo M. Tyypin 1 diabeteksen hoito pitää keskittää. Duodecim 2014;130(12):1203-5.
20. Tuomi T. ja Westerbacka J. Myeloomapotilaan sitkeä hypoglykemia. Duodecim 2013;129(7):773-4.
19. Merenmies J, Ala-Houhala M. ja Tuomi T. Kystinen munuaissairaus ja diabetes – alidiagnosoitu yksigeeninen kehityshäiriö. Duodecim 2012;218(19):1999-2006.
18. Miettinen PJ. ja Tuomi T. MODY-diabetes - yksigeeninen haiman beetasolujen kehitys- ja toimintahäiriö. Duodecim, 2012; 128;(19):1989-98.
17. Lindsberg PJ. ja Tuomi T. Diabeteksen seulontaa tehostettava aivoverenkierron häiriöiden jälkeen. Duodecim. 2012;128(7):671-3.
16. Forsén T, Lahti K, Tuomi T, Sundman L, Isomaa B, Eriksson J, Groop L. Diabetesrekisteri Vaasan sairaanhoitopiirissä. Yleislääkäri –lehti, 2011; 6;26:17-21.
15. Tuomi T. WHO hyväksyy HbA1c-arvon diabeteksen diagnostiikassa – ei hylätä vielä glukoosirasituskoetta Suomessa. Duodecim 2011;127(12):1185-6.
14. Paronen J, Tuomi T. Kummalliset sokeriarvot. Duodecim 2010;126(7):829-31. (Case report)
13. Groop l, Lyssenko V, Tuomi T. Tyypin 2 diabeteksen genetiikka selviämässä - Taustalla monen heikkotehoisen alttiusgeenin yhteispeli. Duodecim 2007;123(12):1449-55.
12. Tuomi T. "Sokerit koholla" – diagnoosi? Duodecim 2007;123(12):1457-63.
11. Tuomi T, Saloranta C. Diabeetikko joka näki hämähäkkejä. Duodecim 2005;121(21):2319-20. (Case report)
10. Tuomi T, Sane T. Hankalahoitoinen astma ja hypokalemia. Duodecim 2005; 121:65,67. (Case report)
9. Tuomi T. Miksi Tyypin 1 diabeteksen hoitotasapaino ei parane? Duodecim 2005; 121: 817-819.
8. Tuomi T. Pitkävaikutteinen insuliinianalogi glargiini erityiskorvattava tyypin 1 diabeteksen hoidossa. Duodecim 2004;120(1):88-92.
7. Tuomi T. APECED ja diabetes. Diabetes ja Lääkäri, Suomen Diabetesliiton julkaisu, lokakuu 2001.
6. Välimäki M, Voutilainen T, Kaitila I, Tuomi T. Lasten riisitaudista aikuisten osteomalasiaan. Duodecim 2001; 117: 2171-80.
5. Tuomi T. Aikuistyypin diabetes on monimuotoinen sairaus. Duodecim (Editorial) 2001; 117: 1129-1131.
4. Nikkanen P, Salmi P, Tuomi T, Sane S. Voidaanko aikuisena sairastuneen tyypin 1 diabeetikon insuliinihoito aloittaa polikliinisesti? Suomen Lääkärilehti 2001; 23: 2507-2511.
3. Tuomi T. Täsmennyksiä diabeteksen luokitukseen. Uudet diagnoosirajat korjaavat vanhoja virhelaskelmia. Diabetes ja Lääkäri, Suomen Diabetesliiton julkaisu, huhtikuu 1999.
2. Tuomi T. Aikuistyypin diabeteksen uudet alamuodot. Diabetes ja Lääkäri, Suomen Diabetesliiton julkaisu, helmikuu 1998.
1. Tuomi T. Heterogeniteten vid diabetes i Finland. Finska Läkaresällskapets Handlingar 1997; 157;2:9-14.

Book chapters:
12. Tuomi T. Tuore diabetes, Akuuttihoito-opas (p. 390-391). Kustannus Oy Duodecim 2018.
11. Tuomi T. Hypoglykemia, Akuuttihoito-opas (p. 396-397). Kustannus Oy Duodecim 2018.
10. Tuomi T. Diabeetikon hoito päivystyksessä, Akuuttihoito-opas (p. 397-399). Kustannus Oy Duodecim 2018.
9. Tuomi T. Valvontapotilaiden glukoositasapainon hoito, Akuuttihoito-opas (p. 399-402). Kustannus Oy Duodecim 2018.
8. Yki-Järvinen H ja Tuomi T. Diabeteksen määritelmä, erotusdiagnoosi ja luokitus. Lääkärin käsikirja (932-934), Kustannusosakeyhtiö Duodecim 2017.
7. Tuomi T, Miettinen PJ, Hakaste L, Groop L. Atypical Forms of Diabetes. Endotext [Internet], 2015. South Dartmouth (MA): MDText.com, Inc.; 2000-.
6. Tuomi T. Diabeteksen hoito vuodeosastolla, Akuuttihoito-opas, Kustannusosakeyhtiö Duodecim 2012 (including an electronic version)
5. Tuomi T. Tuore diabetes päivystyksessä, Akuuttihoito-opas, Kustannusosakeyhtiö Duodecim 2012 (including an electronic version)
4. Tuomi T. Diabeteksen hoito valvontaosastolla, Akuuttihoito-opas, Kustannusosakeyhtiö Duodecim 2012 (including an electronic version)
3. Palotie A, Tuomi T, Wessman M. Monitekijäisten sairauksien genetiikka. In: Perinnöllisyyslääketiede, Kääriäinen H, Palotie A, editors. Kustannusosakeyhtiö Duodecim 2006.
2. Yki-Järvinen H ja Tuomi T. Diabeteksen määritelmä, erotusdiagnoosi ja luokitus. Lääkärin käsikirja, Kustannusosakeyhtiö Duodecim, 2001, 2002, 2004, 2009; Lääkärin CD (CD-ROM). Versio 2002, 2004, 2009. Helsinki: Kustannus Oy Duodecim, 2002, 2004; Lääkärin tietokannat [online], tietokanta YKT. Helsinki: Kustannus Oy Duodecim, 2004. (http://www.terveysportti.fi). Yki-Järvinen H ja Tuomi T. Diabetes: definition, differential diagnosis and classification. In: Evidence-Based Medicine Guidelines (EBMG). Chichester, UK: John Wiley & Sons, Ltd, 2005. Has also been published as a CD-ROM: EBM Guidelines. Version 2/2002. Helsinki: Duodecim Medical Publications Ltd, 2002.
1. Tuomi T ja Perheentupa J. Type 1 diabetes mellitus in autoimmune syndromes. In: Contemporary Endocrinology: Type 1 diabetes: Etiology and Treatment; M.A. Sperling, editor. Humana Press Inc, Totowa, NY. 2003.

Projects

My research focuses on unravelling the heterogeneity of diabetes, both regarding pathogenetic mechanisms and development of classification approaches based on phenotypic and genetic data (instead of the currently used rather sinmple algorithms).

I am the PI of a large Botnia Family Study on diabetes, a population-based tudy on Prevalence, Prediction and Prevention of Diabetes (the PPP-Botnia Study), the FINNMODY Study on monogenic diabetes in FInland, and the regional Vaasa Diabetes Registry DIREVA Study in Finland.

We perform mostly clinical, genetic and epidemiological research.

Leading the unit for care of diabetes at the Helsinki Universital Hospital, I follow the preventive and treatment trials but I have not actively participated in conducting them.

Memberships

Expert positions:
- The IDF Task Force on Novel Criteria for the Diagnosis of Prediabetes and Type 2 Diabetes 2023-2024
- Novo Nordisk Fonden, Committee on Steno Research Collaboration 2021 - 2023
- Swedish Research Council, Evaluation panels 2016 - 2022
- FinnGen project, Task force for Fatty Liver Disease (chair) since 2020
- The ADA/EASD Precision Medicine in Diabetes Initiative, Treatment of Monogenic Diabetes (chair) 2020-2023
- The ClinGen Monogenic Diabetes Expert Panel since 2018
- FinnGen project, Cardiometabolic Expert Group 2017-2023
- Scientific Steering Group for THL Biobank 2017-2018
- Current Care Guideline Editorial Board (Diabetes) since 2018

- Current Care Guidelines for insulin-deficient diabetes (Finland), Chairman 2016 ☐
- EASD Study Group for Genetics of Diabetes, advisory board 2011 - 2019
- Duodecim Medical Journal, member of Editorial Board 2003 – 2017
- Espoo Diabetes Centre, Head and project leader 2013 – 2016
- Helsinki Biomedical Research School, Board Member 2001 – 2013
- The Finnish Diabetes Association, Medical Advisory Board: 2002 – 2012
  Vice Chairman 2002-2005, Chairman 2005 -2012
- Steering Committee, The Master's Degree Program in Translational Medicine, University of Helsinki 2010 – 2011
- Finnish Diabetes Association (patient organization), chair of the Medical Advisory Board 2005-2012
- The Finnish Diabetes Research Society, Board member 1999 – 2005

Reviewer for scientific and scholarly journals:
- Frequently: Diabetes, Diabetologia, Diabetes Care, Journal of Clinical Endocrinology and Metabolism
- Occasionally: Nature Communications, Nature, Scientific Reports, American Journal of Human Genetics

Other Relevant Information