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The genetics of type 2 diabetes

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List of publications

1. Maassen JA, 't Hart LM, Janssen GM, Reiling E, Romijn JA, Lemkes HH: Mitochondrial diabetes and its lessons for common Type 2 diabetes. *Biochem Soc Trans* 34:819-823, 2006
2. van Hove EC, Hansen T, Dekker JM, Reiling E, Nijpels G, Jorgensen T, Borch-Johnsen K, Hamid YH, Heine RJ, Pedersen O, Maassen JA, 't Hart LM: The HADHSC gene encoding short-chain L-3-hydroxyacyl-CoA dehydrogenase (SCHAD) and type 2 diabetes susceptibility: the DAMAGE study. *Diabetes* 55:3193-3196, 2006
3. Groenewoud MJ, Dekker JM, Fritsche A, Reiling E, Nijpels G, Heine RJ, Maassen JA, Machicao F, Schafer SA, Haring HU, 't Hart LM, van Haefen TW: Variants of CDKAL1 and IGF2BP2 affect first-phase insulin secretion during hyperglycaemic clamps. *Diabetologia* 51:1659-1663, 2008
4. Reiling E, van Vliet-Ostapchouk JV, van 't Riet E, Van Haefen TW, Arp PA, Hansen T, Kremer D, Groenewoud MJ, van Hove EC, Romijn JA, Smit JW, Nijpels G, Heine RJ, Uitterlinden AG, Pedersen O, Slagboom PE, Maassen JA, Hofker MH, 't Hart LM, Dekker JM: Genetic association analysis of 13 nuclear-encoded mitochondrial candidate genes with type II diabetes mellitus: the DAMAGE study. *Eur J Hum Genet* 2009 Aug 17(8):1056-62
5. Reiling E, van 't Riet E, Groenewoud MJ, Welschen LMC, van Hove EC, Nijpels G, Maassen JA, Dekker JM, 't Hart LM: Combined effects of single-nucleotide polymorphisms in GCK, GCKR, G6PC2 and MTNR1B on fasting plasma glucose and type 2 diabetes risk. *Diabetologia* 2009 Sep 52(9): 1866-70
6. Reiling E, Jafar-Mohammadi B, van 't Riet E, Weedon MN, van Vliet-Ostapchouk JV, T. Hansen, Saxena R, van Haefen TW, Arp PA, Das S, Nijpels G, Groenewoud MJ, van Hove EC, Uitterlinden AG, Smit JWA, Morris AD, Doney ASF, Palmer CNA, Guiducci C, Hattersley AT, Frayling TM, Pedersen O, Slagboom PE, Altshuler DM, Groop L, Romijn JA, Maassen JA, Hofker MH, Dekker JM, McCarthy MI, 't Hart LM. Genetic association analysis of LARS2 with type 2 diabetes. *Diabetologia* 2010 Jan 53 (1): 103-111

7. Simonis-Bik AM, Nijpels G, van Haeften TW, Houwing-Duistermaat JJ, Boomsma DI, Reiling E, van Hove EC, Diamant M, Kramer MHH, Heine RJ, Maassen JA, Slagboom PE, Willemsen G, Dekker JM, Eekhoff EM, de Geus EJ, 't Hart LM. Gene variants in the novel type 2 diabetes loci CDC123/CAMK1D, THADA, ADAMTS9, BCL11A and MTNR1B affect different aspects of pancreatic beta cell function. *Diabetes 2009 Oct, Ahead of publication, doi: 10.2337/db09-1048*
8. 't Hart LM, Simonis-Bik AM, Nijpels G, van Haeften TW, Schäfer SA, Houwing-Duistermaat JJ, Boomsma DI, Groenewoud MJ, Reiling E, van Hove EC, Diamant M, Kramer MHH, Heine RJ, Maassen JA, Kirchhoff K, Machicao F, Häring HU, Slagboom PE, Willemsen G, Eekhoff EM, de Geus EJ, Dekker JM, Fritsche A. A Combined Risk Allele Score of Eight Type 2 Diabetes Genes Is Associated With Reduced First Phase Glucose Stimulated Insulin Secretion During Hyperglycemic Clamps. *Diabetes 2009 Oct, Ahead of publication, doi 10.2337/db09-0736*
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10. van Vliet-Ostaptchouk JV, Reiling E, Kleefstra N, Klungel OH, Bruin EJ, Landman GWD, van Diemen CC, Boezen HM, van Haeften TW, Dekker JM, van 't Riet E, Nijpels G, Welschen LMC, de Boer A, Grobbee DE, Wijmenga C, Bilo HJG, 't Hart LM, Hofker MH. KCNQ1 gene is associated with type 2 diabetes in a Dutch population. *Submitted for publication*
11. Lyssenko V, Olsson AH, Dekker Nitert M, Koeck T, Ladenvall C, Kotova O, Reiling E, Rönn T, Parikh H, Taneera J, Metodiev M, Larsson NG, Eriksson JG, Luthman H, Stancakova A, Laakso M, Poulsen P, Vaag A, Groop L, Mulder H and Ling C. A common variant in TFB1M is associated with reduced insulin secretion and increased future risk of type 2 diabetes. *Submitted for publication*

Curriculum Vitae

The author of this thesis was born on the third of May, 1983, in Dedemsvaart The Netherlands. He graduated for MAVO education in 1999 at the MAVO Weidebeek in Wezep, and for HAVO education in 2001, at the Agnieten College in Zwolle. After this he attended “Biologie en Medisch Laboratorium Onderzoek” at the Saxion Hogeschool IJsselland in Deventer. He performed his third year internship at the department of auto-immune biochemistry at the Nijmegen Centre for Medical Life Sciences under supervision of Dr. A.J.W. Zendman. His graduation internship was performed at the department of Molecular Cell Biology at the LUMC in Leiden, under supervision of Dr. L.M. 't Hart and graduated in 2005. After his graduation, he stayed at this department for the PhD-project described in this thesis under supervision of Dr. L.M. 't Hart and Prof. Dr. J.A. Maassen. Since August 2009 he is working as postdoctoral researcher at the RIVM in Bilthoven, The Netherlands.

