

**ANDERS HAMSTEN PUBLICATIONS 2016****Peer-reviewed articles**

1. Backlund A, Johansson M, Ria M, Ketelhuth DF, Tsikrika P, Chernogubova E, Jin H, Backlund J, Eriksson P, Maegdefessel L, Holmdahl R, Hansson GK, Hamsten A. Accelerated atherosclerosis in the context of rheumatoid arthritis. *European Journal of Immunology* 2016; 46: 440-441.
2. Bruzelius M, Iglesias MJ, Hong MG, Sanchez-Rivera L, Gyorgy B, Souto JC, Franberg M, Fredolini C, Strawbridge RJ, Holmstrom M, Hamsten A, Uhlen M, Silveira A, Soria JM, Smadja DM, Butler LM, Schwenk JM, Morange PE, Tregouet DA, Odeberg J. PDGFB, a new candidate plasma biomarker for venous thromboembolism: results from the VEREMA affinity proteomics study. *Blood* 2016; 128: E59-E66.
3. Bruzelius M, Ljungqvist M, Bottai M, Bergendal A, Strawbridge RJ, Holmstrom M, Silveira A, Kieler H, Hamsten A, Larfars G, Odeberg J. F11 is associated with recurrent VTE in women A prospective cohort study. *Thrombosis and Haemostasis* 2016; 115: 406-414.
4. de Vries PS, Chasman DI, Sabater-Lleal M, Chen MH, Huffman JE, Steri M, Tang WH, Teumer A, Marioni RE, Grossmann V, Hottenga JJ, Trompet S, Muller-Nurasyid M, Zhao JH, Brody JA, Kleber ME, Guo XQ, Wang JJ, Auer PL, Attia JR, Yanek LR, Ahluwalia TS, Lahti J, Venturini C, Tanaka T, Bielak LF, Joshi PK, Rocanin-Arjo A, Kolcic I, Navarro P, Rose LM, Oldmeadow C, Riess H, Mazur J, Basu S, Goel A, Yang Q, Ghanbari M, Willemsen G, Rumley A, Fiorillo E, de Craen AJM, Grotevendt A, Scott R, Taylor KD, Delgado GE, Yao J, Kifley A, Kooperberg C, Qayyum R, Lopez LM, Berentzen TL, Raikkonen K, Mangino M, Bandinelli S, Peyser PA, Wild S, Tregouet DA, Wright AF, Marten J, Zemunik T, Morrison AC, Sennblad B, Tofler G, de Maat MPM, de Geus EJC, Lowe GD, Zoledziwska M, Sattar N, Binder H, Volker U, Waldenberger M, Khaw KT, McKnight B, Huang J, Jenny NS, Holliday EG, Qi LH, McEvoy MG, Becker DM, Starr JM, Sarin AP, Hysi PG, Hernandez DG, Jhun MA, Campbell H, Hamsten A, Rivadeneira F, McArdle WL, Slagboom PE, Zeller T, Koenig W, Psaty BM, Haritunians T, Liu JM, Palotie A, Uitterlinden AG, Stott DJ, Hofman A, Franco OH, Polasek O, Rudan I, Morange PE, Wilson JF, Kardia SLR, Ferrucci L, Spector TD, Eriksson JG, Hansen T, Deary IJ, Becker LC, Scott RJ, Mitchell P, Marz W, Wareham NJ, Peters A, Greinacher A, Wild PS, Jukema JW, Boomsma DI, Hayward C, Cucca F, Tracy R, Watkins H, Reiner AP, Folsom AR, Ridker PM, O'Donnell CJ, Smith NL, Strachan DP, Dehghan A. A meta-analysis of 120 246 individuals identifies 18 new loci for fibrinogen concentration. *Human Molecular Genetics* 2016; 25: 358-370.
5. Edsgard D, Iglesias MJ, Reilly SJ, Hamsten A, Tornvall P, Odeberg J, Emanuelsson O. GeneiASE: Detection of condition-dependent and static allele-specific expression from RNA-seq data without haplotype information. *Scientific Reports* 2016; 6.
6. Ehret GB, Ferreira T, Chasman DI, Jackson AU, Schmidt EM, Johnson T, Thorleifsson G, Luan J, Donnelly LA, Kanoni S, Petersen AK, Pihurl V, Strawbridge RJ, Shungin D, Hughes MF, Meirelles O, Kaakinen M, Bouatia-Naji N, Kristiansson K, Shah S, Kleber ME, Guo XQ, Lyytikainen LP, Fava C, Eriksson N, Nolte IM, Magnusson PK, Salfati EL, Rallidis LS, Theusch E, Smith AJP, Folkersen L, Witkowska K, Pers TH,

Joehanes R, Kim SK, Lataniotis L, Jansen R, Johnson AD, Warren H, Kim YJ, Zhao W, Wu Y, Tayo BO, Bochud M, Absher D, Adair LS, Amin N, Arkingl DE, Axelsson T, Baldassarre D, Balkau B, Bandinelli S, Barnes MR, Barroso I, Bevan S, Bis JC, Bjornsdottir G, Boehnke M, Boerwinkle E, Bonnycastle LL, Boomsma DI, Bornstein SR, Brown MJ, Burnier M, Cabrera CP, Chambers JC, Chang IS, Cheng CY, Chines PS, Chung RH, Collins FS, Connell JM, Doring A, Dallongeville J, Danesh J, de Faire U, Delgado G, Dominiczak AF, Doney ASF, Drenos F, Edkins S, Eicher JD, Elosua R, Enroth S, Erdmann J, Eriksson P, Esko T, Evangelou E, Evans A, Fai T, Farra M, Felixl JF, Ferrieres J, Ferrucci L, Fornage M, Forrester T, Franceschini N, Franco OH, Franco-Cereceda A, Fraser RM, Ganesh SK, Gao H, Gertow K, Gianfagna F, Gigante B, Giulianini F, Goe A, Goodall AH, Goodarzi M, Gorski M, Grassler J, Groves CJ, Gudnason V, Gyllensten U, Hallmans G, Hartikainen AL, Hassinen M, Havulinna AS, Hayward C, Hercberg S, Herzig KH, Hicks AA, Hingorani AD, Hirschhorn JN, Hofman A, Holmen J, Holmen OL, Hottenga JJ, Howard P, Hsiung CA, Hunt SC, Ikram MA, Illig T, Iribarren C, Jensen RA, Kahonen M, Kang HM, Kathiresan S, Keating BJ, Khaw KT, Kim YK, Kim E, Kivimaki M, Klopp N, Kolovou G, Komulainen P, Kooner JS, Kosova G, Krauss RM, Kuh D, Kutalik Z, Kuusisto J, Kvaloy K, Lakka TA, Lee NR, Lee IT, Lee WJ, Levy D, Li X, Liang KW, Lin H, Lin L, Lindstrom J, Lobbens S, Mannisto S, Muller G, Muller-Nurasyid M, Mach F, Markus HS, Marouli E, McCarthy MI, McKenzie CA, Meneton P, Menni C, Metspalu A, Mijatovic V, Moilanen L, Montasser ME, Morris AD, Morrison AC, Mulas A, Nagaraja R, Narisu N, Nikus K, O'Donnell CJ, O'Reilly PF, Ong KK, Paccaud F, Palmer CD, Parsa A, Pedersen NL, Penninx BW, Perola M, Peters A, Poulter N, Pramstaller PP, Psaty BM, Quertermous T, Rao DC, Rasheed A, Rayner NW, Renstrom F, Rettig R, Rice KM, Roberts R, Rose LM, Rossouw J, Samani NJ, Sanna S, Saramies J, Schunkert H, Sebert S, Sheu WHH, Shin YA, Sim X, Smit JH, Smith AV, Sosa MX, Spector TD, Stancakova A, Stanton AV, Stirrups KE, Stringham HM, Sundstrom J, Swift AJ, Syvanen AC, Tai ES, Tanaka T, Tarasov KV, Teumer A, Thorsteinsdottir U, Tobin MD, Tremoli E, Uitterlinden AG, Uusitupa M, Vaez A, Vaidya D, van Duijn CM, van Iperen EPA, Vasan RS, Verwoert GC, Virtamo J, Vitart V, Voight BF, Vollenweider P, Wagner A, Wain LV, Wareham NJ, Watldns H, Weder AB, Westra HJ, Wilks R, Wilsgaard T, Wilson JF, Wong TY, Yang TP, Yao J, Yengo L, Zhang W, Zhao JH, Zhu X, Bovet P, Cooper RS, Mohlke KL, Saleheen D, Lee JY, Elliott P, Gierman HJ, Willer CJ, Franke L, Hovingh GK, Taylor KD, Dedoussis G, Sever P, Wong A, Lind L, Assimes TL, Njolstad I, Schwarz PEH, Langenberg C, Snieder H, Caulfield MJ, Melander E, Laakso M, Saltevo J, Rauramaa R, Tuomilehto J, Ingelsson E, Lehtimaki T, Hveem K, Palmas W, Marz W, Kumar M, Salomaa V, Chen YDI, Rotter JI, Froguel P, Jarvelin MR, Lakatta EG, Kuulasmaa K, Franks PW, Hamsten A, Wichmann HE, Palmer CNA, Stefansson K, Ridker PM, Loos RJJ, Chalcravarti A, Deloukas P, Morris AP, Newton-Cheh C, Munroe PB, Consortium CH-E, Consortium C-H, Wellcome Trust Case Control C. The genetics of blood pressure regulation and its target organs from association studies in 342,415 individuals. *Nature Genetics* 2016; 48: 1171-1184.

7. Hinds DA, Buil A, Ziemek D, Martinez-Perez A, Malik R, Folkersen L, Germain M, Malarstig A, Brown A, Soria JM, Dichgans M, Bing N, Franco-Cereceda A, Souto JC, Dermitzakis ET, Hamsten A, Worrall BB, Tung JY, Sabater-Lleal M, Consortium M, Consortium I. Genome-wide association analysis of self-reported events in 6135 individuals and 252 827 controls identifies 8 loci associated with thrombosis. *Human Molecular Genetics* 2016; 25: 1867-1874.

8. Iotchkova V, Huang J, Morris JA, Jain D, Barbieri C, Walter K, Min JL, Chen L, Astle W, Cocca M, Deelen P, Elding H, Farmaki AE, Franklin CS, Franberg M, Gaunt TR, Hofman A, Jiang T, Kleber ME, Lachance G, Luan J, Malerba G, Matchan A, Mead D, Memari Y, Ntalla I, Panoutsopoulou K, Pazoki R, Perry JRB, Rivadeneira F, Sabater-Lleal M, Sennblad B, Shin SY, Southam L, Traglia M, van Dijk F, van Leeuwen EM, Zaza G, Zhang WH, Amin N, Butterworth A, Chambers JC, Dedoussis G, Dehghan A, Franco OH, Franke L, Frontini M, Gambaro G, Gasparini P, Hamsten A, Issacs A, Kooner JS, Kooperberg C, Langenberg C, Marz W, Scott RA, Swertz MA, Toniolo D, Uitterlinden AG, van Duijn CM, Watkins H, Zeggini E, Maurano MT, Timpson NJ, Reiner AP, Auer PL, Soranzo N, Consortium UK. Discovery and refinement of genetic loci associated with cardiometabolic risk using dense imputation maps. *Nature Genetics* 2016; 48: 1303-1312.
9. Leander K, Malarstig A, van't Hooft FM, Hyde C, Hellenius ML, Troutt JS, Konrad RJ, Ohrvik J, Hamsten A, de Faire U. Circulating Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9) Predicts Future Risk of Cardiovascular Events Independently of Established Risk Factors. *Circulation* 2016; 133: 1230-1239.
10. Loley C, Alver M, Assimes TL, Bjornes A, Goel A, Gustafsson S, Hernesniemi J, Hopewell JC, Kanoni S, Kleber ME, Lau KW, Lu YC, Lyytikainen LP, Nelson CP, Nikpay M, Qu LM, Salfati E, Scholz M, Tukiainen T, Willenborg C, Won HH, Zeng LY, Zhang WH, Anand SS, Beutner F, Bottinger EP, Clarke R, Dedoussis G, Do R, Esko T, Eskola M, Farrall M, Gauguier D, Giedraitis V, Granger CB, Hall AS, Hamsten A, Hazen SL, Huang J, Kahonen M, Kyriakou T, Laaksonen R, Lind L, Lindgren C, Magnusson PKE, Marouli E, Mihailov E, Morris AP, Nikus K, Pedersen N, Rallidis L, Salomaa V, Shah SH, Stewart AFR, Thompson JR, Zalloua PA, Chambers JC, Collins R, Ingelsson E, Iribarren C, Karhunen PJ, Kooner JS, Lehtimäki T, Loos RJF, Marz W, McPherson R, Metspalu A, Reilly MP, Ripatti S, Sanghera DK, Thiery J, Watkins H, Deloukas P, Kathiresan S, Samani NJ, Schunkert H, Erdmann J, König IR. No Association of Coronary Artery Disease with X-Chromosomal Variants in Comprehensive International Meta-Analysis. *Scientific Reports* 2016; 6.
11. Martin-Fernandez L, Ziyatdinov A, Carrasco M, Millon JA, Martinez-Perez A, Vilalta N, Brunel H, Font M, Hamsten A, Souto JC, Soria JM. Genetic Determinants of Thrombin Generation and Their Relation to Venous Thrombosis: Results from the GAIT-2 Project. *Plos One* 2016; 11.
12. Matic LP, Rykaczewska U, Razuvaev A, Sabater-Lleal M, Lengquist M, Miller CL, Ericsson I, Rohl S, Kronqvist M, Aldi S, Magne J, Paloschi V, Vesterlund M, Li YH, Jin H, Diez MG, Roy J, Baldassarre D, Veglia F, Humphries SE, de Faire U, Tremoli E, Odeberg J, Vukojevic V, Lehtio J, Maegdefessel L, Ehrenborg E, Paulsson-Berne G, Hansson GK, Lindeman JHN, Eriksson P, Quertermous T, Hamsten A, Hedin U, Grp IS. Phenotypic Modulation of Smooth Muscle Cells in Atherosclerosis Is Associated With Downregulation of LMOD1, SYNPO2, PDLIM7, PLN, and SYNM. *Arteriosclerosis Thrombosis and Vascular Biology* 2016; 36: 1947-1961.
13. McLeod O, Silveira A, Valdes-Marquez E, Bjorkbacka H, Almgren P, Gertow K, Gadin JR, Backlund A, Sennblad B, Baldassarre D, Veglia F, Humphries SE, Tremoli E, de Faire U, Nilsson J, Melander O, Hopewell JC, Clarke R, Bjorck HM, Hamsten A, Ohrvik J, Strawbridge RJ, Grp IS. Genetic loci on chromosome 5 are associated with

circulating levels of interleukin-5 and eosinophil count in a European population with high risk for cardiovascular disease. *Cytokine* 2016; 81: 1-9.

14. Ried JS, Jeff JM, Chu AY, Bragg-Gresham JL, van Dongen J, Huffman JE, Ahluwalia TS, Cadby G, Eklund N, Eriksson J, Esko T, Feitosa MF, Goel A, Gorski M, Hayward C, Heard-Costa NL, Jackson AU, Jokinen E, Kanoni S, Kristiansson K, Kutalik Z, Lahti J, Luan JA, Magi R, Mahajan A, Mangino M, Medina-Gomez C, Monda KL, Nolte IM, Perusse L, Prokopenko I, Qi L, Rose LM, Salvi E, Smith MT, Snieder H, Stancakova A, Sung YJ, Tachmazidou I, Teumer A, Thorleifsson G, van der Harst P, Walker RW, Wang SR, Wild SH, Willems SM, Wong A, Zhang WH, Albrecht E, Alves AC, Bakker SJL, Barlassina C, Bartz TM, Beilby J, Bellis C, Bergman RN, Bergmann S, Blangero J, Bluher M, Boerwinkle E, Bonnycastle LL, Bornstein SR, Bruinenberg M, Campbell H, Chen YDI, Chiang CWK, Chines PS, Collins FS, Cupca F, Cupples LA, D'Avila F, de Geus EJC, Dedoussis G, Dimitriou M, Doring A, Eriksson JG, Farmaki AE, Farrall M, Ferreira T, Fischer K, Forouhi NG, Friedrich N, Gjesing AP, Glorioso N, Graff M, Grallert H, Grarup N, Grassler J, Grewal J, Hamsten A, Harder MN, Hartman CA, Hassinen M, Hastie N, Hattersley AT, Havulinna AS, Heliövaara M, Hillege H, Hofman A, Holmen O, Homuth G, Hottenga JJ, Hui JN, Husemoen LL, Hysi PG, Isaacs A, Ittermann T, Jalilzadeh S, James AL, Jorgensen T, Jousilahti P, Jula A, Justesen JM, Justice AE, Kahonen M, Karaleftheri M, Khaw KT, Keinänen-Kiukkaanniemi SM, Kinnunen L, Knekt PB, Koistinen HA, Kolcic I, Kooner IK, Koskinen S, Kovacs P, Kyriakou T, Laitinen T, Langenberg C, Lewin AM, Lichtner P, Lindgren CM, Lindstrom J, Linneberg A, Lorbeer R, Lorentzon M, Luben R, Lyssenko V, Mannisto S, Manunta P, Leach IM, McArdle WL, McKnight B, Mohlke KL, Mihailov E, Milani L, Mills R, Montasser ME, Morris AP, Muller G, Musk AW, Narisu N, Ong KK, Oostra BA, Osmond C, Palotie A, Pankow JS, Paternoster L, Penninx BW, Pichler I, Pilia MG, Polasek O, Pramstaller PP, Raitakari OT, Rankinen T, Rao DC, Rayner NW, Ribel-Madsen R, Rice TK, Richards M, Ridker PM, Rivadeneira F, Ryan KA, Sanna S, Sarzynski MA, Scholtens S, Scott RA, Sebert S, Southam L, Sparso TH, Steinthorsdottir V, Stirrups K, Stolk RP, Strauch K, Stringham HM, Swertz MA, Swift AJ, Tonjes A, Tsfantakis E, van der Most PJ, Van Vliet-Ostaptchouk JV, Vandenput L, Vartiainen E, Venturini C, Verweij N, Viikari JS, Vitart V, Vohl MC, Vonk JM, Waeber G, Widen E, Willemsen G, Wilsgaard T, Winkler TW, Wright AF, Yerges-Armstrong LM, Zhao JH, Zillikens MC, Boomsma DI, Bouchard C, Chambers JC, Chasman DI, Cusi D, Gansevoort RT, Gieger C, Hansen T, Hicks AA, Hu F, Hveem K, Jarvelin MR, Kajantie E, Kooner JS, Kuh D, Kuusisto J, Laakso M, Lakka TA, Lehtimäki T, Metspalu A, Njolstad I, Ohlsson C, Oldehinkel AJ, Palmer LJ, Pedersen O, Perola M, Peters A, Psaty BM, Puolijoki H, Rauramaa R, Rudan I, Salomaa V, Schwarz PEH, Shudiner AR, Smit JH, Sorensen TIA, Spector TD, Stefansson K, Stumvoll M, Tremblay A, Tuomilehto J, Uitterlinden AG, Uusitupa M, Volker U, Vollenweider P, Wareham NJ, Watkins H, Wilson JF, Zeggini E, Abecasis GR, Boehnke M, Borecki IB, Deloukas P, van Duijn CM, Fox C, Groop LC, Heid IM, Hunter DJ, Kaplan RC, McCarthy MI, North KE, O'Connell JR, Schlessinger D, Thorsteinsdottir U, Strachan DP, Frayling T, Hirschhorn JN, Muller-Nurasyid M, Loos RJF. A principal component meta-analysis on multiple anthropometric traits identifies novel loci for body shape. *Nature Communications* 2016; 7.

15. Sennblad B, Basu S, Mazur J, Suchon P, Martinez-Perez A, Vlieg AV, Truong V, Li Y, Gadin JR, Tang W, Grossman V, Handin N, Franco-Cereceda A, Morange PE, Maegdefessel L, Gagnon F, Soria JM, Eriksson P, Hamsten A, Rosendaal FR, Wild P, Tregouet D, Folsom A, Sabater-Lleal M. Novel mechanisms regulating Factor XI plasma levels. *Journal of Thrombosis and Haemostasis* 2016; 14: 64-64.
16. Strawbridge RJ, Hilding A, Silveira A, Ouml;sterholm C, Sennblad B, McLeod O, Tsikrika P, Forough F, Tremoli E, Baldassarre D, Veglia F, Rauramaa R, Smit AJ, Giral P, Kurl S, Mannarino E, Grossi E, Syvanen AC, Humphries SE, de Faire U, Ouml;stenson CG, Maegdefessel L, Hamsten A, Backlund A, Grp IS. Soluble CD93 Is Involved in Metabolic Dysregulation but Does Not Influence Carotid Intima-Media Thickness. *Diabetes* 2016; 65: 2888-2899.
17. Strawbridge RJ, Laumen H, Hamsten A, Breier M, Grallert H, Hauner H, Arner P, Dahlman I. Effects of Genetic Loci Associated with Central Obesity on Adipocyte Lipolysis. *Plos One* 2016; 11.