

B. Selected peer-reviewed publications (in chronological order).

10 best publications in last five years selected from overall **451** peer-reviewed publications, cumulative impact factor **4914.1**.

1. Thingholm LB, Rühlemann MC, Koch M, Fuqua B, Laucke G, Boehm R, Bang C, Franzosa EA, Hübenthal M, Rahnavard A, Frost F, Lloyd-Price J, Schirmer M, Lusi AJ, Vulpe CD, Lerch MM, Homuth G, Kacprowski T, Schmidt CO, Nöthlings U, Karlsen TH, Lieb W, Laudes M, **Franke A***, Huttenhower C (2019). *Obese Individuals with and without Type 2 Diabetes Show Different Gut Microbial Functional Capacity and Composition*. **Cell Host Microbe** Aug 14;26(2):252-264.e10. *shared senior authorship and corresponding author
2. Degenhardt F, Wendorff M, Wittig M, Ellinghaus E, Datta LW, Schembri J, Ng SC, Rosati E, Hübenthal M, Ellinghaus D, Jung ES, Lieb W, Abedian S, Malekzadeh R, Cheon JH, Ellul P, Sood A, Midha V, Bk T, Wong SH, Schreiber S, Yamazaki K, Kubo M, Boucher G, Rioux J, Lenz TL, Brant SR, **Franke A** (2018). *Construction and benchmarking of a multi-ethnic reference panel for the imputation of HLA class I and II alleles*. **Hum Mol Genet**. doi: 10.1093/hmg/ddy443.
3. Huang H, Fang M, Jostins L, Umićević Mirkov M, Boucher G, Anderson CA, Andersen V, Cleynen I, Cortes A, Crins F, D'Amato M, Deffontaine V, Dmitrieva J, Docampo E, Elansary M, Farh KK, **Franke A**, Gori AS, Goyette P, Halfvarson J, Haritunians T, Knight J, Lawrance IC, Lees CW, Louis E, Mariman R, Meuwissen T, Mni M, Momozawa Y, Parkes M, Spain SL, Théâtre E, Trynka G, Satsangi J, van Sommeren S, Vermeire S, Xavier RJ; International Inflammatory Bowel Disease Genetics Consortium, Weersma RK, Duerr RH, Mathew CG, Rioux JD, McGovern DPB, Cho JH, Georges M, Daly MJ, Barrett JC (2017). *Fine-mapping inflammatory bowel disease loci to single-variant resolution*. **Nature**. 547(7662):173-178.
4. Ji SG, Juran BD, Mucha S, Folseraas T, Jostins L, Melum E, Kumasaka N, Atkinson EJ, Schlicht EM, Liu JZ, Shah T, Gutierrez-Achury J, Boberg KM, Bergquist A, Vermeire S, Eksteen B, Durie PR, Farkkila M, Müller T, Schramm C, Sterneck M, Weismüller TJ, Gotthardt DN, Ellinghaus D, Braun F, Teufel A, Laudes M, Lieb W, Jacobs G, Beuers U, Weersma RK, Wijmenga C, Marschall HU, Milkiewicz P, Pares A, Kontula K, Chazouillères O, Invernizzi P, Goode E, Spiess K, Moore C, Sambrook J, Ouwehand WH, Roberts DJ, Danesh J, Floreani A, Gulamhusein AF, Eaton JE, Schreiber S, Coltescu C, Bowlus CL, Luketic VA, Odin JA, Chopra KB, Kowdley KV, Chalasani N, Manns MP, Srivastava B, Mells G, Sandford RN, Alexander G, Gaffney DJ, Chapman RW, Hirschfield GM, de Andrade M; UK-PSC Consortium; International IBD Genetics Consortium; International PSC Study Group, Rushbrook SM, **Franke A**, Karlsen TH, Lazaridis KN, Anderson CA (2017). *Genome-wide association study of primary sclerosing cholangitis identifies new risk loci and quantifies the genetic relationship with inflammatory bowel disease*. **Nat Genet**. 2017 Feb;49(2):269-273.
5. Ellinghaus D, Jostins L, Spain SL, Cortes A, Bethune J, Han B, Park YR, Raychaudhuri S, Pouget JG, Hübenthal M, Folseraas T, Wang Y, Esko T, Metspalu A, Westra HJ, Franke L, Pers TH, Weersma RK, Collij V, D'Amato M, Halfvarson J, Jensen AB, Lieb W, Degenhardt F, Forstner AJ, Hofmann A; International IBD Genetics Consortium (IIBDGC), International Genetics of Ankylosing Spondylitis Consortium (IGAS), International PSC Study Group (IPSCSG), Genetic Analysis of Psoriasis Consortium (GAPC), Psoriasis Association Genetics Extension (PAGE), Schreiber S, Mrowietz U, Juran BD, Lazaridis KN, Brunak S, Dale AM, Trembath RC, Weidinger S, Weichenthal M, Ellinghaus E, Elder JT, Barker JN, Andreassen OA, McGovern DP, Karlsen TH, Barrett JC, Parkes M, Brown MA, **Franke A** (2016). *Analysis of five chronic inflammatory diseases identifies 27 new associations and highlights disease-specific patterns at shared loci*. **Nature Genetics**. 48(5):510-8.
6. Wang J, Thingholm LB, Skiecevičienė J, Rausch P, Kummén M, Hov JR, Degenhardt F, Heinsen FA, Rühlemann MC, Szymczak S, Holm K, Esko T, Sun J, Pricop-Jeckstadt M, Al-Dury S, Bohov P, Bethune J, Sommer F, Ellinghaus D, Berge RK, Hübenthal M, Koch M, Schwarz K, Rimbach G, Hübbe P, Pan

WH, Sheibani-Tezerji R, Häsler R, Rosenstiel P, D'Amato M, Cloppenburg-Schmidt K, Künzel S, Laudes M, Marschall HU, Lieb W, Nöthlings U, Karlsen TH, Baines JF, **Franke A** (2016). *Genome-wide association analysis identifies variation in vitamin D receptor and other host factors influencing the gut microbiota*. **Nature Genetics**. 48(11):1396-1406.

7. Huang YH, Zhu C, Kondo Y, Anderson AC, Gandhi A, Russell A, Dougan SK, Petersen BS, Melum E, Pertel T, Clayton KL, Raab M, Chen Q, Beauchemin N, Yazaki PJ, Pyzik M, Ostrowski MA, Glickman JN, Rudd CE, Ploegh HL, **Franke A**, Petsko GA, Kuchroo VK, Blumberg RS. *CEACAM1 regulates TIM-3-mediated tolerance and exhaustion*. **Nature**. 2015 Jan 15;517(7534):386-90.
8. Fischer U, Forster M, Rinaldi A, Risch T, ..., Lehrach H, Borkhardt A*, Bourquin JP*, **Franke A***, Korbelt JO*, Stanulla M*, Yaspo ML* (2015). *Genomics and drug profiling of fatal TCF3-HLF-positive acute lymphoblastic leukemia identifies recurrent mutation patterns and therapeutic options*. **Nat Genet**. 47(9):1020-9. *shared senior authorship, alphabetical order; grant coordinated by Franke A/Stanulla M.
9. Goyette P, Boucher G, Mallon D, Ellinghaus E, Jostins L, Huang H, Ripke S, Gusareva ES, Annesse V, Hauser SL, Oksenberg JR, Thomsen I, Leslie S; International Inflammatory Bowel Disease Genetics Consortium.; Australia and New Zealand IBDGC.; Belgium IBD Genetics Consortium.; Italian Group for IBD Genetic Consortium.; NIDDK Inflammatory Bowel Disease Genetics Consortium.; United Kingdom IBDGC.; Wellcome Trust Case Control Consortium.; Quebec IBD Genetics Consortium., Daly MJ, Van Steen K, Duerr RH, Barrett JC, McGovern DP, Schumm LP, Traherne JA, Carrington MN, Kosmoliaptsis V, Karlsen TH, **Franke A***, Rioux JD* (2015). *High-density mapping of the MHC identifies a shared role for HLA-DRB1*01:03 in inflammatory bowel diseases and heterozygous advantage in ulcerative colitis*. **Nature Genetics**. 47(2):172-9. *shared senior authorship
10. Wittig M, Anmarkrud JA, Kässens JC, Koch S, Forster M, Ellinghaus E, Hov JR, Sauer S, Schimmler M, Ziemann M, Görg S, Jacob F, Karlsen TH, **Franke A** (2015). *Development of a high-resolution NGS-based HLA-typing and analysis pipeline*. **Nucleic Acids Res**. 43(11):e70.

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