



**Publications X-omics consortium  
2021**

## Publications of the X-omics consortium

April 2021

*Long-read trio sequencing of individuals with unsolved intellectual disability.*

Pauper M, Kucuk E, Wenger AM, Chakraborty S, Baybayan P, Kwint M, van der Sanden B, **Nelen MR**, Derks R, Brunner HG, **Hoischen A**, Vissers LELM, Gilissen C.

Eur J Hum Genet. 2021 Apr;29(4):637-648. doi: 10.1038/s41431-020-00770-0. Epub 2020 Nov 30. PMID: 33257779

<https://pubmed.ncbi.nlm.nih.gov/33257779/>

*Personalized Profiling Reveals Donor- and Lactation-Specific Trends in the Human Milk Proteome and Peptidome.*

Zhu J, Dingess KA, Mank M, Stahl B, **Heck AJR**.

J Nutr. 2021 Apr 8;151(4):826-839. doi: 10.1093/jn/nxaa445. PMID: 33693758

<https://pubmed.ncbi.nlm.nih.gov/33693758/>

*Multiomics integrative analysis identifies APOE allele-specific blood biomarkers associated to Alzheimer's disease etiopathogenesis.*

Madrid L, Moreno-Grau S, Ahmad S, González-Pérez A, de Rojas I, Xia R, Martino Adami PV, García-González P, Kleineidam L, Yang Q, Damotte V, Bis JC, Noguera-Perea F, Bellenguez C, Jian X, Marín-Muñoz J, Grenier-Boley B, Orellana A, **Ikram MA**, Amouyel P, Satizabal CL; Alzheimer's Disease Neuroimaging Initiative (ADNI)\*; EADI consortium, CHARGE consortium, GERAD consortium, GR@ACE/DEGESCO consortium, Real LM, Antúñez-Almagro C, DeStefano A, Cabrera-Socorro A, Sims R, Van Duijn CM, Boerwinkle E, Ramírez A, Fornage M, Lambert JC, Williams J, Seshadri S; ADAPTED consortium, Ried JS, Ruiz A, Saez ME.

Aging (Albany NY). 2021 Apr 12;13. doi: 10.18632/aging.202950. Online ahead of print. PMID: 33846280

<https://pubmed.ncbi.nlm.nih.gov/33846280/>

*Centrosome-mediated microtubule remodeling during axon formation in human iPSC-derived neurons.*

Lindhout FW, Portegies S, Kooistra R, Herstel LJ, Stucchi R, Hummel JJA, Scheefhals N, Katrukha EA, **Altelaar M**, MacGillavry HD, Wierenga CJ, Hoogenraad CC.

EMBO J. 2021 Apr 9:e106798. doi: 10.15252/embj.2020106798. Online ahead of print. PMID: 33835529

<https://pubmed.ncbi.nlm.nih.gov/33835529/>

*Microbiota-derived short chain fatty acids modulate microglia and promote A $\beta$  plaque deposition.*

Colombo AV, Sadler RK, Llovera G, Singh V, Roth S, Heindl S, Sebastian Monasor L, Verhoeven A, Peters F, Parhizkar S, Kamp F, Gomez de Agüero M, MacPherson AJ, Winkler E, Herms J, Benakis C, Dichgans M, Steiner H, **Giera M**, Haass C, Tahirovic S, Liesz A.

Elife. 2021 Apr 13;10:e59826. doi: 10.7554/eLife.59826.PMID: 33845942

<https://pubmed.ncbi.nlm.nih.gov/33845942/>

*Terminal  $\alpha$ 2,6-sialylation of epidermal growth factor receptor modulates antibody therapy response of colorectal cancer cells.*

Rodrigues JG, Duarte HO, Gomes C, Balmaña M, Martins ÁM, Hensbergen PJ, de Ru AH, Lima J, Albergaria A, van Veelen PA, **Wuhrer M**, Gomes J, Reis CA.

Cell Oncol (Dordr). 2021 Apr 13. doi: 10.1007/s13402-021-00606-z. Online ahead of print.PMID: 33847896

<https://pubmed.ncbi.nlm.nih.gov/33847896/>

## March 2021

*Resequencing of candidate genes for Keratoconus reveals a role for Ehlers-Danlos Syndrome genes.*

Fransen E, Valgaeren H, Janssens K, Sommen M, De Ridder R, Vandeweyer G, Bisceglia L, Soler V, **Hoischen A**, Mortier G, Malecaze F, Koppen C, Van Camp G.

Eur J Hum Genet. 2021 Mar 19. doi: 10.1038/s41431-021-00849-2. Online ahead of print. PMID: 33737726

<https://pubmed.ncbi.nlm.nih.gov/33737726/>

*Self-rated health in individuals with and without disease is associated with multiple biomarkers representing multiple biological domains.*

Kananen L, Enroth L, Raitanen J, Jylhävä J, Bürkle A, Moreno-Villanueva M, Bernhardt J, Toussaint O, Grubeck-Loebenstien B, Malavolta M, Basso A, Piacenza F, Collino S, Gonos ES, Sikora E, Gradinaru D, Jansen EHJM, Dollé MET, Salmon M, Stuetz W, Weber D, Grune T, Breusing N, Simm A, Capri M, Franceschi C, **Slagboom PE**, Talbot DCS, Libert C, Koskinen S, Bruunsgaard H, Hansen ÁM, Lund R, Hurme M, Jylhä M.

Sci Rep. 2021 Mar 17;11(1):6139. doi: 10.1038/s41598-021-85668-7.PMID: 33731775

<https://pubmed.ncbi.nlm.nih.gov/33731775/>

*Investigating the relationships between unfavourable habitual sleep and metabolomic traits: evidence from multi-cohort multivariable regression and Mendelian randomization analyses.*

Bos MM, Goulding NJ, Lee MA, Hofman A, Bot M, Pool R, Vijfhuizen LS, Zhang X, Li C, Mustafa R, Neville MJ, Li-Gao R, Trompet S, Beekman M, Biermasz NR, **Boomsma DI**, de Boer I, Christodoulides C, Dehghan A, van Dijk KW, Ford I, Ghanbari M, Heijmans BT, **Ikram MA**, Jukema JW, Mook-Kanamori DO, Karpe F, Luik AI, Lumey LH, van den Maagdenberg AMJM, Mooijaart SP, de Mutsert R, Penninx BWJH, Rensen PCN, Richmond RC, Rosendaal FR, Sattar N, Schoevers RA, **Slagboom PE**, Terwindt GM, Thesing CS, Wade KH, Wijdsman CA, Willemsen G, Zwinderman AH, van Heemst D, Noordam R, Lawlor DA.

BMC Med. 2021 Mar 18;19(1):69. doi: 10.1186/s12916-021-01939-0.PMID: 33731105

<https://pubmed.ncbi.nlm.nih.gov/33731105/>

*1q21.1 distal copy number variants are associated with cerebral and cognitive alterations in humans.*

Sønderby IE, van der Meer D, Moreau C, Kaufmann T, Walters GB, Ellegaard M, Abdellaoui A, Ames D, Amunts K, Andersson M, Armstrong NJ, Bernard M, Blackburn NB, Blangero J, **Boomsma DI**, Brodaty H, Brouwer RM, Bülow R, Bøen R, Cahn W, Calhoun VD, Caspers S, Ching CRK, Cichon S, Ciufolini S, Crespo-Facorro B, Curran JE, Dale AM, Dalvie S, Dazzan P, de Geus EJC, de Zubicaray GI, de Zwarte SMC, Desrivieres S, Doherty JL, Donohoe G, Draganski B, Ehrlich S, Eising E, Espeseth T, Fejgin K, Fisher SE, Fladby T, Frei O, Frouin V, Fukunaga M, Gareau T, Ge T, Glahn DC, Grabe HJ, Groenewold NA, Gústafsson Ó, Haavik J, Haberg AK, Hall J, Hashimoto R, Hehir-Kwa JY, Hibar DP, Hillegers MHJ, Hoffmann P, Holleran L, Holmes AJ, Homuth G, Hottenga JJ, Hulshoff Pol HE, Ikeda M, Jahanshad N, Jockwitz C, Johansson S, Jönsson EG, Jørgensen NR, Kikuchi M, Knowles EEM, Kumar K, Le Hellard S, Leu C, Linden DEJ, Liu J, Lundervold A, Lundervold AJ, Maillard AM, Martin NG, Martin-Brevet S, Mather KA, Mathias SR, McMahon KL, McRae AF, Medland SE, Meyer-Lindenberg A, Moberget T, Modenato C, Sánchez JM, Morris DW, Mühleisen TW, Murray RM, Nielsen J, Nordvik JE, Nyberg L, Loohuis LMO, Ophoff RA, Owen MJ, Paus T, Pausova Z, Peralta JM, Pike GB, Prieto C, Quinlan EB, Reinbold CS, Marques TR, Rucker JJH, Sachdev PS, Sando SB, Schofield PR, Schork AJ, Schumann G, Shin J, Shumskaya E, Silva AI, Sisodiya SM, Steen VM, Stein DJ, Strike LT, Suzuki IK, Tamnes CK, Teumer A, Thalamuthu A, Tordesillas-Gutiérrez D, Uhlmann A, Ulfarsson MO, van 't Ent D, van den Bree MBM, Vanderhaeghen P, Vassos E, Wen W, Wittfeld K, Wright MJ, Agartz I, Djurovic S, Westlye LT, Stefansson H, Stefansson K, Jacquemont S, Thompson PM, Andreassen OA; ENIGMA-CNV working group.

Transl Psychiatry. 2021 Mar 22;11(1):182. doi: 10.1038/s41398-021-01213-0.PMID: 33753722

<https://pubmed.ncbi.nlm.nih.gov/33753722/>

*First participant diagnosed with Creutzfeldt-Jakob disease in the population-based Rotterdam Study was classified with mild cognitive impairment.*

Karamujić-Čomić H, Rozemuller AJM, **Ikram MA**, van Duijn CM.

BMJ Case Rep. 2021 Mar 29;14(3):e235509. doi: 10.1136/bcr-2020-235509.PMID: 33782059

<https://pubmed.ncbi.nlm.nih.gov/33782059/>

*Lifelines COVID-19 cohort: investigating COVID-19 infection and its health and societal impacts in a Dutch population-based cohort.*

Mc Intyre K, Lanting P, Deelen P, Wiersma HH, Vonk JM, Ori APS, Jankipersadsing SA, Warmerdam R, van Blokland I, Boulogne F, Dijkema MXL, Herkert JC, Claringbould A, Bakker O, Lopera Maya EA, Bültmann U, Zhernakova A, Reijneveld SA, Zijlstra E, **Swertz MA**, Brouwer S, van Ooijen R, Angelini V, Dekker LH, Sijsma A, Scherjon SA, Wijmenga C, Dekens JAM, Mierau J, Boezen HM, **Franke L**.

BMJ Open. 2021 Mar 17;11(3):e044474. doi: 10.1136/bmjopen-2020-044474.PMID: 33737436

<https://pubmed.ncbi.nlm.nih.gov/33737436/>

*Integrative Transkingdom Analysis of the Gut Microbiome in Antibiotic Perturbation and Critical Illness.*

Haak BW, Argelaguet R, Kinsella CM, Kullberg RFJ, Lankelma JM, Deijs M, Klein M, Jebbink MF, Hugenholtz F, Kostidis S, **Giera M**, Hakvoort TBM, de Jonge WJ, Schultz MJ, van Gool T, van der Poll T, de Vos WM, van der Hoek LM, Wiersinga WJ.

mSystems. 2021 Mar 16;6(2):e01148-20. doi: 10.1128/mSystems.01148-20.PMID: 33727397

<https://pubmed.ncbi.nlm.nih.gov/33727397/>

*Cannabinoid type 1 receptor inverse agonism attenuates dyslipidemia and atherosclerosis in APOE\*3-Leiden.CETP mice.*

van Eenige R, Ying Z, Tambyrajah L, Pronk ACM, Blomberg N, **Giera M**, Wang Y, Coskun T, van der Stelt M, Rensen PCN, Kooijman S.

J Lipid Res. 2021 Mar 22:100070. doi: 10.1016/j.jlr.2021.100070. Online ahead of print.PMID: 33766515

<https://pubmed.ncbi.nlm.nih.gov/33766515/>

*Analysis of Synthetic Monodisperse Polysaccharides by Wide Mass Range Ultrahigh-Resolution MALDI Mass Spectrometry.*

Nicolardi S, Joseph AA, Zhu Q, Shen Z, Pardo-Vargas A, Chiodo F, Molinaro A, Silipo A, van der Burgt YEM, Yu B, Seeberger PH, Wuhrer M.

Anal Chem. 2021 Mar 16;93(10):4666-4675. doi: 10.1021/acs.analchem.1c00239. Epub 2021 Mar 5.PMID: 33667082

<https://pubmed.ncbi.nlm.nih.gov/33667082/>

*Functional monovalency amplifies the pathogenicity of anti-MuSK IgG4 in myasthenia gravis.*

Vergoossen DLE, Plomp JJ, Gstöttner C, Fillié-Grijpma YE, Augustinus R, Verpalen R, **Wuhrer M**, Parren PWHI, Dominguez-Vega E, van der Maarel SM, Verschuuren JJ, Huijbers MG.

Proc Natl Acad Sci U S A. 2021 Mar 30;118(13):e2020635118. doi: 10.1073/pnas.2020635118.PMID: 33753489

<https://pubmed.ncbi.nlm.nih.gov/33753489/>

*Next-Generation Sequencing in the Field of Primary Immunodeficiencies: Current Yield, Challenges, and Future Perspectives.*

Vorsteveld EE, **Hoischen A**, van der Made CI.

Clin Rev Allergy Immunol. 2021 Mar 5:1-14. doi: 10.1007/s12016-021-08838-5. Online ahead of print.PMID: 33666867

<https://pubmed.ncbi.nlm.nih.gov/33666867/>

*Personalized Profiling Reveals Donor- and Lactation-Specific Trends in the Human Milk Proteome and Peptidome.*

Zhu J, Dingess KA, Mank M, Stahl B, **Heck AJR**.

J Nutr. 2021 Mar 9:nxaa445. doi: 10.1093/jn/nxaa445. Online ahead of print.PMID: 33693758

<https://pubmed.ncbi.nlm.nih.gov/33693758/>

*Quantifying Positional Isomers (QPI) by top-down mass spectrometry.*

Brunner AM, Lössl P, Geurink PP, Ovaa H, Albanese P, Altelaar AFM, **Heck AJR**, Scheltema RA.

Mol Cell Proteomics. 2021 Mar 9:100070. doi: 10.1016/j.mcpro.2021.100070. Online ahead of print.PMID: 33711480

<https://pubmed.ncbi.nlm.nih.gov/33711480/>

*Adeno-associated virus capsid assembly is divergent and stochastic.*

Wörner TP, Bennett A, Habka S, Snijder J, Friese O, Powers T, Agbandje-McKenna M, **Heck AJR**.

Nat Commun. 2021 Mar 12;12(1):1642. doi: 10.1038/s41467-021-21935-5.PMID: 33712599

<https://pubmed.ncbi.nlm.nih.gov/33712599/>

*The lysosomal endopeptidases Cathepsin D and L are selective and effective proteases for the middle-down characterization of antibodies.*

Čaval T, Hecht ES, Tang W, Uy-Gomez M, Nichols A, Kil YJ, Sandoval W, Bern M, Heck AJR.

FEBS J. 2021 Mar 13. doi: 10.1111/febs.15813. Online ahead of print. PMID: 33713388

<https://pubmed.ncbi.nlm.nih.gov/33713388/>

*Clonotypic Features of Rearranged Immunoglobulin Genes Yield Personalized Biomarkers for Minimal Residual Disease Monitoring in Multiple Myeloma.*

Langerhorst P, Brinkman AB, VanDuijn MM, Wessels HJCT, Groenen PJTA, Joosten I, **van Gool AJ**, Gloerich J, Scheijen B, Jacobs JFM.

Clin Chem. 2021 Mar 12:hvab017. doi: 10.1093/clinchem/hvab017. Online ahead of print. PMID: 33709101

<https://pubmed.ncbi.nlm.nih.gov/33709101/>

*Ketone body 3-hydroxybutyrate as a biomarker of aggression.*

Whipp AM, Vuoksima E, Korhonen T, Pool R, But A, Ligthart L, Hagenbeek FA, Bartels M, Bogl LH, Pulkkinen L, Rose RJ, **Boomsma DI**, Kaprio J.

Sci Rep. 2021 Mar 12;11(1):5813. doi: 10.1038/s41598-021-84635-6. PMID: 33712630

<https://pubmed.ncbi.nlm.nih.gov/33712630/>

*Heterogeneous contributions of change in population distribution of body mass index to change in obesity and underweight.*

NCD Risk Factor Collaboration (NCD-RisC).

Elife. 2021 Mar 9;10:e60060. doi: 10.7554/eLife.60060. PMID: 33685583

<https://pubmed.ncbi.nlm.nih.gov/33685583/>

*Genome-wide association study in almost 195,000 individuals identifies 50 previously unidentified genetic loci for eye color.*

Simcoe M, Valdes A, Liu F, Furlotte NA, Evans DM, Hemani G, Ring SM, Smith GD, Duffy DL, Zhu G, Gordon SD, Medland SE, Vuckovic D, Girotto G, Sala C, Catamo E, Concas MP, Brumat M, Gasparini P, Toniolo D, Cocca M, Robino A, Yazar S, Hewitt A, Wu W, Kraft P, Hammond CJ, Shi Y, Chen Y, Zeng C, Klaver CCW, Uitterlinden AG, Ikram MA, Hamer MA, van Duijn CM, Nijsten T, Han J, Mackey DA, Martin NG, Cheng CY; 23andMe Research Team; International Visible Trait Genetics Consortium, Hinds DA, Spector TD, Kayser M, Hysi PG.

Sci Adv. 2021 Mar 10;7(11):eabd1239. doi: 10.1126/sciadv.abd1239. Print 2021 Mar. PMID: 33692100

<https://pubmed.ncbi.nlm.nih.gov/33692100/>

*Analysis of Synthetic Monodisperse Polysaccharides by Wide Mass Range Ultrahigh-Resolution MALDI Mass Spectrometry.*

Nicolardi S, Joseph AA, Zhu Q, Shen Z, Pardo-Vargas A, Chiodo F, Molinaro A, Silipo A, van der Burgt YEM, Yu B, Seeberger PH, Wührer M.

Anal Chem. 2021 Mar 5. doi: 10.1021/acs.analchem.1c00239. Online ahead of print. PMID: 33667082

<https://pubmed.ncbi.nlm.nih.gov/33667082/>



## February 2021

*Cortical thickness across the lifespan: Data from 17,075 healthy individuals aged 3-90 years.*

Frangou S, Modabbernia A, Williams SCR, Papachristou E, Doucet GE, Agartz I, Aghajani M, Akudjedu TN, Albajes-Eizagirre A, Alnaes D, Alpert KI, Andersson M, Andreassen NC, Andreassen OA, Asherson P, Banaschewski T, Bargallo N, Baumeister S, Baur-Streubel R, Bertolino A, Bonvino A, **Boomsma DI**, Borgwardt S, Bourque J, Brandeis D, Breier A, Brodaty H, Brouwer RM, Buitelaar JK, Busatto GF, Buckner RL, Calhoun V, Canales-Rodríguez EJ, Cannon DM, Caseras X, Castellanos FX, Cervenka S, Chaim-Avincini TM, Ching CRK, Chubar V, Clark VP, Conrod P, Conzelmann A, Crespo-Facorro B, Crivello F, Crone EA, Dale AM, Davey C, de Geus EJC, de Haan L, de Zubicaray GI, den Braber A, Dickie EW, Di Giorgio A, Doan NT, Dørum ES, Ehrlich S, Erk S, Espeseth T, Fatouros-Bergman H, Fisher SE, Fouche JP, Franke B, Frodl T, Fuentes-Claramonte P, Glahn DC, Gotlib IH, Grabe HJ, Grimm O, Groenewold NA, Grotegerd D, Gruber O, Gruner P, Gur RE, Gur RC, Harrison BJ, Hartman CA, Hatton SN, Heinz A, Heslenfeld DJ, Hibar DP, Hickie IB, Ho BC, Hoekstra PJ, Hohmann S, Holmes AJ, Hoogman M, Hosten N, Howells FM, Hulshoff Pol HE, Huysen C, Jahanshad N, James A, Jernigan TL, Jiang J, Jönsson EG, Joska JA, Kahn R, Kalnin A, Kanai R, Klein M, Klyushnik TP, Koenders L, Koops S, Krämer B, Kuntsi J, Lagopoulos J, Lázaro L, Lebedeva I, Lee WH, Lesch KP, Lochner C, Machielsen MWJ, Maingault S, Martin NG, Martínez-Zalacáin I, Mataix-Cols D, Mazoyer B, McDonald C, McDonald BC, McIntosh AM, McMahon KL, McPhilemy G, Menchón JM, Medland SE, Meyer-Lindenberg A, Naaijen J, Najt P, Nakao T, Nordvik JE, Nyberg L, Oosterlaan J, de la Foz VO, Paloyelis Y, Pauli P, Pergola G, Pomarol-Clotet E, Portella MJ, Potkin SG, Radua J, Reif A, Rinker DA, Roffman JL, Rosa PGP, Sacchet MD, Sachdev PS, Salvador R, Sánchez-Juan P, Sarró S, Satterthwaite TD, Saykin AJ, Serpa MH, Schmaal L, Schnell K, Schumann G, Sim K, Smoller JW, Sommer I, Soriano-Mas C, Stein DJ, Strike LT, Swagerman SC, Tamnes CK, Temmingh HS, Thomopoulos SI, Tomyshev AS, Tordesillas-Gutiérrez D, Trollor JN, Turner JA, Uhlmann A, van den Heuvel OA, van den Meer D, van der Wee NJA, van Haren NEM, van 't Ent D, van Erp TGM, Veer IM, Veltman DJ, Voineskos A, Völzke H, Walter H, Walton E, Wang L, Wang Y, Wassink TH, Weber B, Wen W, West JD, Westlye LT, Whalley H, Wierenga LM, Wittfeld K, Wolf DH, Worker A, Wright MJ, Yang K, Yoncheva Y, Zanetti MV, Ziegler GC; Karolinska Schizophrenia Project (KaSP), Thompson PM, Dima D.

Hum Brain Mapp. 2021 Feb 17. doi: 10.1002/hbm.25364. Online ahead of print.PMID: 33595143

<https://pubmed.ncbi.nlm.nih.gov/33595143/>

*Associations between the CADM2 gene, substance use, risky sexual behavior, and self-control: A phenome-wide association study.*

Arends RM, Pasma JA, Verweij KJH, Derks EM, Gordon SD, Hickie I, Thomas NS, Aliev F, Zietsch BP, van der Zee MD, Mitchell BL, Martin NG, Dick DM, Gillespie NA, de Geus EJC, **Boomsma DI**, Schellekens AFA, Vink JM.

Addict Biol. 2021 Feb 18:e13015. doi: 10.1111/adb.13015. Online ahead of print.PMID: 33604983

<https://pubmed.ncbi.nlm.nih.gov/33604983/>

*Effects of copy number variations on brain structure and risk for psychiatric illness: Large-scale studies from the ENIGMA working groups on CNVs.*

Sønderby IE, Ching CRK, Thomopoulos SI, van der Meer D, Sun D, Villalon-Reina JE, Agartz I, Amunts K, Arango C, Armstrong NJ, Ayasa-Arriola R, Bakker G, Bassett AS, **Boomsma DI**, Bülow R, Butcher NJ, Calhoun VD, Caspers S, Chow EWC, Cichon S, Ciufolini S, Craig MC, Crespo-Facorro B, Cunningham AC, Dale AM, Dazzan P, de Zubicaray GI, Djurovic S, Doherty JL, Donohoe G, Draganski B, Durdle CA, Ehrlich S, Emanuel BS, Espeseth T, Fisher SE, Ge T, Glahn DC, Grabe HJ, Gur RE, Gutman BA, Haavik J, Håberg AK, Hansen LA, Hashimoto R, Hibar DP, Holmes AJ, Hottenga JJ, Hulshoff Pol HE, Jalbrzikowski M, Knowles EEM, Kushan L, Linden DEJ, Liu J, Lundervold AJ, Martin-Brevet S, Martínez K, Mather KA, Mathias SR, McDonald-McGinn DM, McRae AF, Medland SE, Moberget T, Moderato C, Monereo Sánchez J, Moreau CA, Mühleisen TW, Paus T, Pausova Z, Prieto C, Ragothaman A, Reinbold CS, Reis Marques T, Repetto GM, Reymond A, Roalf DR, Rodriguez-Herreros B, Rucker JJ, Sachdev PS, Schmitt JE, Schofield PR, Silva AI, Stefansson H, Stein DJ, Tamnes CK, Tordesillas-Gutiérrez D, Ulfarsson MO, Vajdi A, van 't Ent D, van den Bree MBM, Vassos E, Vázquez-Bourgon J, Vila-Rodriguez F, Walters GB, Wen W, Westlye LT, Wittfeld K, Zackai EH, Stefánsson K, Jacquemont S, Thompson PM, Bearden CE, Andreassen OA; ENIGMA-CNV Working Group; ENIGMA 22q11.2 Deletion Syndrome Working Group.

Hum Brain Mapp. 2021 Feb 21. doi: 10.1002/hbm.25354. Online ahead of print.PMID: 33615640

<https://pubmed.ncbi.nlm.nih.gov/33615640/>

*Multilevel Twin Models: Geographical Region as a Third Level Variable.*

Tamimy Z, Kevenaar ST, Hottenga JJ, Hunter MD, de Zeeuw EL, Neale MC, van Beijsterveldt CEM, Dolan CV, van Bergen E, **Boomsma DI**.

Behav Genet. 2021 Feb 27. doi: 10.1007/s10519-021-10047-x. Online ahead of print.PMID: 33638732

<https://pubmed.ncbi.nlm.nih.gov/33638732/>

*Epicardial fat volume and the risk of cardiometabolic diseases among women and men from the general population.*

Brahimaj A, Ahmadizar F, Vernooij MW, Ikram MK, **Ikram MA**, van Walsum T, Dehghan A, Franco OH, Bos D, Kavousi M.

Eur J Prev Cardiol. 2021 Feb 18:zwaa026. doi: 10.1093/eurjpc/zwaa026. Online ahead of print.PMID: 33598682

<https://pubmed.ncbi.nlm.nih.gov/33598682/>

*QTc-interval prolongation and increased risk of sudden cardiac death associated with hydroxychloroquine.*

Ahmadizar F, Soroush N, **Ikram MA**, Kors JA, Kavousi M, Stricker BH.

Eur J Prev Cardiol. 2020 Nov 22:zwaa118. doi: 10.1093/eurjpc/zwaa118. Online ahead of print. PMID: 33623975

<https://pubmed.ncbi.nlm.nih.gov/33623975/>

*External validity of phase III trials on vaccines against SARS-CoV-2 to a middle-aged and elderly Western European population.*

Terzikhan N, Hofman A, Goudsmit J, **Ikram MA**.

Eur J Epidemiol. 2021 Feb 26;1-6. doi: 10.1007/s10654-021-00729-5. Online ahead of print. PMID: 33634346

<https://pubmed.ncbi.nlm.nih.gov/33634346/>

*GENETIC SUSCEPTIBILITY TO DRY SKIN IN A GENERAL MIDDLE-AGED TO ELDERLY POPULATION: A GENOME-WIDE ASSOCIATION STUDY.*

Mekić S, Gunn DA, Jacobs LC, Hijnen D, **Ikram MA**, Mayes AE, Nijsten T, Pardo LM.J

Invest Dermatol. 2021 Feb 25:S0022-202X(21)00227-X. doi: 10.1016/j.jid.2020.12.033. Online ahead of print. PMID: 33640410

<https://pubmed.ncbi.nlm.nih.gov/33640410/>

*Profiling the proteoforms of urinary prostate-specific antigen by capillary electrophoresis - mass spectrometry.*

Moran AB, Domínguez-Vega E, Nouta J, Pongracz T, de Reijke TM, **Wuhrer M**, Lageveen-Kammeijer GSM.J

Proteomics. 2021 Feb 19;238:104148. doi: 10.1016/j.jprot.2021.104148. Online ahead of print. PMID: 33618028

<https://pubmed.ncbi.nlm.nih.gov/33618028/>

*Complete and cooperative in vitro assembly of computationally designed self-assembling protein nanomaterials.*

Wargacki AJ, Wörner TP, van de Waterbeemd M, Ellis D, **Heck AJR**, King NP.

Nat Commun. 2021 Feb 9;12(1):883. doi: 10.1038/s41467-021-21251-y. PMID: 33563988

<https://pubmed.ncbi.nlm.nih.gov/33563988/>

*Generating Informative Sequence Tags from Antigen-Binding Regions of Heavily Glycosylated IgA1 Antibodies by Native Top-Down Electron Capture Dissociation.*

Greisch JF, den Boer MA, Beurskens F, Schuurman J, Tamara S, Bondt A, **Heck AJR**.

J Am Soc Mass Spectrom. 2021 Feb 11. doi: 10.1021/jasms.0c00461. Online ahead of print. PMID: 33570406

<https://pubmed.ncbi.nlm.nih.gov/33570406/>

*Staphylococcal protein A inhibits complement activation by interfering with IgG hexamer formation.*

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