



Publications X-omics consortium

2023

Publications of the X-omics consortium

February

Aberrant phase separation and nucleolar dysfunction in rare genetic diseases.

Mensah MA, Niskanen H, Magalhaes AP, Basu S, Kircher M, Sczakiel HL, Reiter AMV, Elsner J, Meinecke P, Biskup S, Chung BHY, Dombrowsky G, Eckmann-Scholz C, Hitz MP, **Hoischen A**, Holterhus PM, Hülsemann W, Kahrizi K, Kalscheuer VM, Kan A, Krumbiegel M, Kurth I, Leubner J, Longardt AC, Moritz JD, Najmabadi H, Skipalova K, Snijders Blok L, Tzschach A, Wiedersberg E, Zenker M, Garcia-Cabau C, Buschow R, Salvatella X, Kraushar ML, Mundlos S, Caliebe A, Spielmann M, Horn D, Hnisz D.

Nature. 2023 Feb;614(7948):564-571. doi: 10.1038/s41586-022-05682-1. Epub 2023 Feb 8. PMID: 36755093

<https://pubmed.ncbi.nlm.nih.gov/36755093/>

Cost-effective sequence analysis of 113 genes in 1,192 probands with retinitis pigmentosa and Leber congenital amaurosis.

Panneman DM, Hitti-Malin RJ, Holtes LK, de Bruijn SE, Reurink J, Boonen EGM, Khan MI, Ali M, Andréasson S, De Baere E, Banfi S, Bauwens M, Ben-Yosef T, Bocquet B, De Bruyne M, de la Cerda B, Coppieters F, Farinelli P, Guignard T, Inglehearn CF, Karali M, Kjellström U, Koenekoop R, de Koning B, Leroy BP, McKibbin M, Meunier I, Nikopoulos K, Nishiguchi KM, Poulter JA, Rivolta C, Rodríguez de la Rúa E, Saunders P, Simonelli F, Tatour Y, Testa F, Thiadens AAHJ, Toomes C, Tracewska AM, Tran HV, Ushida H, Vaclavik V, Verhoeven VJM, van de Vorst M, **Gilissen C, Hoischen A**, Cremers FPM, Roosing S.

Front Cell Dev Biol. 2023 Feb 3;11:1112270. doi: 10.3389/fcell.2023.1112270. eCollection 2023. PMID: 36819107

<https://pubmed.ncbi.nlm.nih.gov/36819107/>

Reconstruction of Glutathione Metabolism in the Neuronal Model of Rotenone-Induced Neurodegeneration Using Mass Isotopologue Analysis with Hydrophilic Interaction Liquid Chromatography-Zeno High-Resolution Multiple Reaction Monitoring.

Huang L, Drouin N, Causon J, Wegrzyn A, Castro-Perez J, Fleming R, **Harms A, Hankemeier T**.

Anal Chem. 2023 Feb 14;95(6):3255-3266. doi: 10.1021/acs.analchem.2c04231. Epub 2023 Feb 3. PMID: 36735349

<https://pubmed.ncbi.nlm.nih.gov/36735349/>

Lipid-induced transcriptomic changes in blood link to lipid metabolism and allergic response.

Dekkers KF, Slieker RC, Ioan-Facsinay A, van Iterson M; BIOS consortium; **Ikram MA**, van Greevenbroek MMJ, Veldink JH, Franke L, **Boomsma DI**, **Slagboom PE**, Jukema JW, Heijmans BT.

Nat Commun. 2023 Feb 1;14(1):544. doi: 10.1038/s41467-022-35663-x. PMID: 36725846

<https://pubmed.ncbi.nlm.nih.gov/36725846/>

Genome-wide Association Study points to novel locus for Gilles de la Tourette Syndrome.

Tsetsos F, Topaloudi A, Jain P, Yang Z, Yu D, Kolovos P, Tumer Z, Rizzo R, Hartmann A, Depienne C, Worbe Y, Müller-Vahl KR, Cath DC, **Boomsma DI**, Wolanczyk T, Zekanowski C, Barta C, Nemoda Z, Tarnok Z, Padmanabhuni SS, Buxbaum JD, Grice D, Glennon J, Stefansson H, Hengerer B, Yannaki E, Stamatoyannopoulos JA, Benaroya-Milshtein N, Cardona F, Hedderly T, Heyman I, Huyser C, Mir P, Morer A, Mueller N, Munchau A, Plessen KJ, Porcelli C, Roessner V, Walitza S, Schrag A, Martino D; PGC TS Working Group; TSAICG; TSGeneSEE initiative; EMTICS collaborative group; TS-EUROTRAIN network; TIC Genetics collaborative group; Tischfield JA, Heiman GA, Willsey AJ, Dietrich A, Davis LK, Crowley JJ, Mathews CA, Scharf JM, Georgitsi M, Hoekstra PJ, Paschou P.

Biol Psychiatry. 2023 Feb 2:S0006-3223(23)00051-3. doi: 10.1016/j.biopsych.2023.01.023. Online ahead of print. PMID: 36738982

<https://pubmed.ncbi.nlm.nih.gov/36738982/>

Language and reading impairments are associated with increased prevalence of non-right-handedness.

Abbondanza F, Dale PS, Wang CA, Hayiou-Thomas ME, Toseeb U, Koomar TS, Wigg KG, Feng Y, Price KM, Kerr EN, Guger SL, Lovett MW, Strug LJ, van Bergen E, Dolan CV, Tomblin JB, Moll K, Schulte-Körne G, Neuhoff N, Warnke A, Fisher SE, Barr CL, Michaelson JJ, **Boomsma DI**, Snowling MJ, Hulme C, Whitehouse AJO, Pennell CE, Newbury DF, Stein J, Talcott JB, Bishop DVM, Paracchini S.

Child Dev. 2023 Feb 13. doi: 10.1111/cdev.13914. Online ahead of print. PMID: 36780127

<https://pubmed.ncbi.nlm.nih.gov/36780127/>

Polygenic risk score-based phenome-wide association study identifies novel associations for Tourette syndrome.

Jain P, Miller-Fleming T, Topaloudi A, Yu D, Drineas P, Georgitsi M, Yang Z, Rizzo R, Müller-Vahl KR, Tumer Z, Mol Debes N, Hartmann A, Depienne C, Worbe Y, Mir P, Cath DC, **Boomsma DI**, Roessner V, Wolanczyk T, Janik P, Szejko N, Zekanowski C, Barta C, Nemoda Z, Tarnok Z, Buxbaum JD, Grice D, Glennon J, Stefansson H, Hengerer B, Benaroya-Milshtein N, Cardona F, Hedderly T, Heyman I, Huyser C, Morer A, Mueller N, Munchau A, Plessen KJ, Porcelli C, Walitza S, Schrag A, Martino D; Psychiatric Genomics Consortium Tourette Syndrome Working Group (PGC-TS); EMTICS collaborative group; Dietrich A; TS-EUROTRAIN Network; Mathews CA, Scharf JM, Hoekstra PJ, Davis LK, Paschou P.

Transl Psychiatry. 2023 Feb 23;13(1):69. doi: 10.1038/s41398-023-02341-5. PMID: 36823209

<https://pubmed.ncbi.nlm.nih.gov/36823209/>

Serum sodium, cognition and incident dementia in the general population.

van der Burgh AC, Pelouto A, Mooldijk SS, Zandbergen AAM, **Ikram MA**, Chaker L, Hoorn EJ.

Age Ageing. 2023 Feb 1;52(2):afad007. doi: 10.1093/ageing/afad007. PMID: 36735846

<https://pubmed.ncbi.nlm.nih.gov/36735846/>

Plasma proteomic signature of fatty liver disease: the Rotterdam Study.

Abozaid YJ, Ayada I, van Kleef LA, Vallerga CL, Pan Q, Brouwer WP, **Ikram MA**, Van Meurs J, de Knegt RJ, Ghanbari M.

Hepatology. 2023 Feb 6. doi: 10.1097/HEP.000000000000300. Online ahead of print. PMID: 36738080

<https://pubmed.ncbi.nlm.nih.gov/36738080/>

Liver stiffness is associated with excess mortality in the general population driven by heart failure: the rotterdam study.

van Kleef LA, Sonneveld MJ, Zhu F, **Ikram MA**, Kavousi M, de Knegt RJ.

Liver Int. 2023 Feb 6. doi: 10.1111/liv.15538. Online ahead of print. PMID: 36744819

<https://pubmed.ncbi.nlm.nih.gov/36744819/>

Epigenetic and integrative cross-omics analyses of cerebral white matter hyperintensities on MRI.

Yang Y, Knol MJ, Wang R, Mishra A, Liu D, Luciano M, Teumer A, Armstrong N, Bis JC, Jhun MA, Li S, Adams HHH, Aziz NA, Bastin ME, Bourgey M, Brody JA, Frenzel S, Gottesman RF, Hosten N, Hou L, Kardia SLR, Lohner V, Marquis P, Maniega SM, Satizabal CL, Sorond FA, Valdés Hernández MC, van Duijn CM, Vernooij MW, Wittfeld K, Yang Q, Zhao W, Boerwinkle E, Levy D, Deary IJ, Jiang J, Mather KA, Mosley TH, Psaty BM, Sachdev PS, Smith JA, Sotoodehnia N, DeCarli CS, Breteler MMB, **Ikram MA**, Grabe HJ, Wardlaw J, Longstreth WT, Launer LJ, Seshadri S, Debette S, Fornage M.

Brain. 2023 Feb 13;146(2):492-506. doi: 10.1093/brain/awac290.PMID: 35943854

<https://pubmed.ncbi.nlm.nih.gov/35943854/>

Subclinical liver traits are associated with structural and hemodynamic brain imaging markers.

Yilmaz P, Alferink LJM, Cremers LGM, Darwish Murad S, Niessen WJ, **Ikram MA**, Vernooij MW.

Liver Int. 2023 Feb 21. doi: 10.1111/liv.15549. Online ahead of print. PMID: 36801835

<https://pubmed.ncbi.nlm.nih.gov/36801835/>

Uncovering psychiatric phenotypes using unsupervised machine learning: A data-driven symptoms approach.

Hofman A, Lier I, **Ikram MA**, van Wingerden M, Luik AI.

Eur Psychiatry. 2023 Feb 21;1-28. doi: 10.1192/j.eurpsy.2023.13. Online ahead of print. PMID: 36804948

<https://pubmed.ncbi.nlm.nih.gov/36804948/>

Younger facial looks are associate with a lower likelihood of several age-related morbidities in the middle-aged to elderly.

Mekić S, Pardo LM, Gunn DA, Jacobs LC, Hamer MA, **Ikram MA**, Vinke EJ, Vernooij MW, Haarman AEG, Thee EF, Vergroesen JE, Klaver CCW, Croll PH, Goedegebure A, Trajanoska K, Rivadeneira F, van Meurs JBJ, Arshi B, Kavousi M, de Roos EW, Brusselle GGO, Kayser M, Nijsten T.

Br J Dermatol. 2023 Feb 22;188(3):390-395. doi: 10.1093/bjd/ljac100.

<https://pubmed.ncbi.nlm.nih.gov/36763776/>

Dynamic monitoring of myeloma minimal residual disease with targeted mass spectrometry.

Noori S, Wijnands C, Langerhorst P, Bonifay V, Stingl C, Touzeau C, Corre J, Perrot A, Moreau P, Caillon H, **Luider TM**, Dejoie T, Jacobs JFM, van Duijn MM.

Blood Cancer J. 2023 Feb 24;13(1):30. doi: 10.1038/s41408-023-00803-z. PMID: 36828828

<https://pubmed.ncbi.nlm.nih.gov/36828828/>

A proteomics approach to identify COPD-related changes in lung fibroblasts.

Bekker NJ, van Pijkeren A, Wolters JC, Sánchez Brotons A, Guryev V, Woldhuis RR, Bischoff R, Alkema W, **Horvatovich P**, Van Nijnatten JLL, van den Berge M, Timens W, Brandsma CA.

Am J Physiol Lung Cell Mol Physiol. 2023 Feb 21. doi: 10.1152/ajplung.00105.2022. Online ahead of print. PMID: 36808722

<https://pubmed.ncbi.nlm.nih.gov/36808722/>

A transcriptome atlas of leg muscles from healthy human volunteers reveals molecular and cellular signatures associated with muscle location.

Abbassi-Daloui T, El Abdellaoui S, Voortman LM, Veeger TTJ, Cats D, Mei H, Meuffels DE, van Arkel E, **t Hoen PAC**, Kan HE, Raz V.

Elife. 2023 Feb 6;12:e80500. doi: 10.7554/eLife.80500. Online ahead of print. PMID: 36744868

<https://pubmed.ncbi.nlm.nih.gov/36744868/>

Quantitative multiple fragment monitoring with enhanced in-source fragmentation/annotation mass spectrometry.

Bernardo-Bermejo S, Xue J, Hoang L, Billings E, Webb B, Honders MW, Venneker S, Heijs B, Castro-Puyana M, Marina ML, van den Akker EB, Griffioen M, Siuzdak G, **Giera M**, Sánchez-López E.

Nat Protoc. 2023 Feb 8. doi: 10.1038/s41596-023-00803-0. Online ahead of print.
PMID: 36755131

<https://pubmed.ncbi.nlm.nih.gov/36755131/>

Membrane lipid remodeling modulates γ -secretase processivity.

Dawkins E, Derks RJE, Schifferer M, Trambauer J, Winkler E, Simons M, Paquet D, **Giera M**, Kamp F, Steiner H.

J Biol Chem. 2023 Feb 15:103027. doi: 10.1016/j.jbc.2023.103027. Online ahead of print.
PMID: 36805335

<https://pubmed.ncbi.nlm.nih.gov/36805335/>

Dietary butyrate ameliorates metabolic health associated with selective proliferation of gut Lachnospiraceae bacterium 28-4.

Li Z, Zhou E, Liu C, Wicks H, Yildiz S, Razack F, Ying Z, Kooijman S, Koonen DPY, Heijink M, Kostidis S, **Giera M**, Sanders IMJG, Kuijper EJ, Smits WK, van Dijk KW, Rensen PCN, Wang Y.

JCI Insight. 2023 Feb 22;8(4):e166655. doi: 10.1172/jci.insight.166655. PMID: 36810253

<https://pubmed.ncbi.nlm.nih.gov/36810253/>

Transcriptionally imprinted glycomic signatures of acute myeloid leukemia.

Blöchl C, Wang D, Mayboroda OA, Lageveen-Kammeijer GSM, **Wuhrer M**.

Cell Biosci. 2023 Feb 14;13(1):31. doi: 10.1186/s13578-023-00981-0. PMID: 36788594

<https://pubmed.ncbi.nlm.nih.gov/36788594/>

Analysis of Immunogenic Galactose- α -1,3-galactose-Containing N-Glycans in Beef, Mutton, and Pork Tenderloin by Combining Matrix-Assisted Laser Desorption/Ionization-Mass Spectroscopy and Capillary Electrophoresis Hyphenated with Mass Spectrometry via Electropray Ionization.

Guo RR, Lageveen-Kammeijer GSM, Wang W, Dalebout H, Zhang W, **Wuhrer M**, Liu L, Heijs B, Voglmeir J.

J Agric Food Chem. 2023 Feb 21. doi: 10.1021/acs.jafc.2c08067. Online ahead of print.
PMID: 36809004

<https://pubmed.ncbi.nlm.nih.gov/36809004/>

Online Collision-Induced Unfolding of Therapeutic Monoclonal Antibody Glyco-Variants through Direct Hyphenation of Cation Exchange Chromatography with Native Ion Mobility-Mass Spectrometry.

van Schaick G, Domínguez-Vega E, Castel J, **Wuhrer M**, Hernandez-Alba O, Cianfèrani S.

Anal Chem. 2023 Feb 28;95(8):3932-3939. doi: 10.1021/acs.analchem.2c03163. Epub 2023 Feb 15. PMID: 36791123

<https://pubmed.ncbi.nlm.nih.gov/36791123/>

Multi-country metabolic signature discovery for chicken health classification.

Wolthuis JC, Magnúsdóttir S, Stigter E, Tang YF, Jans J, Gilbert M, van der Hee B, Langhout P, Gerrits W, Kies A, **de Ridder J**, van Mil S.

Metabolomics. 2023 Feb 2;19(2):9. doi: 10.1007/s11306-023-01973-4. PMID: 36732451

<https://pubmed.ncbi.nlm.nih.gov/36732451/>

In Defense of the Netherlands Code of Conduct for Research Integrity: Response to Radder.

de Ridder J, Bouter L, Haven T, Peels R, Tijdink J, Zeegers MP.

Account Res. 2023 Feb 9:1-8. doi: 10.1080/08989621.2023.2167599. Online ahead of print. PMID: 36708135

<https://pubmed.ncbi.nlm.nih.gov/36708135/>

January

Genetic Predisposition to Neurological Complications in Patients with COVID-19.

Sahajpal NS, Hastie AR, Schieck M, Mondal AK, Felde M, van der Made CI, Chou JS, Randolph AG, Illig T, Zody MC, Brownstein CA, Beggs AH, **Hoischen A**, Chaubey A, Kolhe R; COVID19hostgenomesv Consortium.

Biomolecules. 2023 Jan 9;13(1):133. doi: 10.3390/biom13010133. PMID: 36671517

<https://pubmed.ncbi.nlm.nih.gov/36671517/>

Comprehensive SMN1 and SMN2 profiling for spinal muscular atrophy analysis using long-read PacBio HiFi sequencing.

Chen X, Harting J, Farrow E, Thiffault I, Kasperaviciute D; Genomics England Research Consortium; **Hoischen A**, **Gilissen C**, Pastinen T, Eberle MA.

Am J Hum Genet. 2023 Jan 12:S0002-9297(23)00001-0. doi: 10.1016/j.ajhg.2023.01.001. Online ahead of print. PMID: 36669496

<https://pubmed.ncbi.nlm.nih.gov/36669496/>

A Solve-RD ClinVar-based reanalysis of 1,522 index cases from ERN-ITHACA reveals common pitfalls and misinterpretations in exome sequencing.

Denommé-Pichon AS, Matalonga L, de Boer E, Jackson A, Benetti E, Banka S, Bruel AL, Ciolfi A, Clayton-Smith J, Dallapiccola B, Duffourd Y, Ellwanger K, Fallerini C, **Gilissen C**, Graessner H, Haack TB, Havlovicova M, **Hoischen A**, Jean-Marçais N, Kleefstra T, López-Martín E, Macek M Jr, Mencarelli MA, Moutton S, Pfundt R, Pizzi S, Posada M, Radio FC, Renieri A, Rooryck C, Ryba L, Safrrou H, Schwarz M, Tartaglia M, Thauvin-Robinet C, Thevenon J, Mau-Them FT, Trimouille A, Votycka P, de Vries BBA, Willemsen MH, Zurek B, Verloes A, Philippe C; Solve-RD DITF-ITHACA; Solve-RD SNV-indel working group; Solve-RD Consortia; Orphanomix Group; Vitobello A, **Vissers LELM**, Faivre L.

Genet Med. 2023 Jan 19:100018. doi: 10.1016/j.gim.2023.100018. Online ahead of print. PMID: 36681873

<https://pubmed.ncbi.nlm.nih.gov/36681873/>

Precision oncology using organoids of a secretory carcinoma of the salivary gland treated with TRK-inhibitors.

Lassche G, van Engen-van Grunsven ACH, van Hooij O, Aalders TW, Am Weijers J, Cocco E, Drilon A, **Hoischen A**, Neveling K, Schalken JA, Verhaegh GW, van Herpen CML.

Oral Oncol. 2023 Feb;137:106297. doi: 10.1016/j.oraloncology.2022.106297. Epub 2023 Jan 5. PMID: 36610231

<https://pubmed.ncbi.nlm.nih.gov/36610231/>

Key changes in bovine milk immunoglobulin G during lactation: NeuAc sialylation is a hallmark of colostrum immunoglobulin G N-glycosylation.

Gazi I, Reiding KR, Groeneveld A, Bastiaans J, Huppertz T, **Heck AJR**.

Glycobiology. 2023 Jan 5;cwad001. doi: 10.1093/glycob/cwad001. Online ahead of print. PMID: 36611013

<https://pubmed.ncbi.nlm.nih.gov/36611013/>

Bacterial DNAemia in Older Participants and Nonagenarian Offspring and Association With Redox Biomarkers: Results From MARK-AGE Study.

Giacconi R, D'Aquila P, Malavolta M, Piacenza F, Bürkle A, Villanueva MM, Dollé MET, Jansen E, Grune T, Gonos ES, Franceschi C, Capri M, Gradinaru D, Grubeck-Loebenstein B, Sikora E, Stuetz W, Weber D, Toussaint O, Debacq-Chainiaux F, Hervonen A, Hurme M, **Slagboom PE**, Schön C, Bernhardt J, Breusing N, Duncan T, Passarino G, Bellizzi D, Provinciali M.

J Gerontol A Biol Sci Med Sci. 2023 Jan 26;78(1):42-50. doi: 10.1093/gerona/glac154. PMID: 35914804

<https://pubmed.ncbi.nlm.nih.gov/35914804/>

Genome-wide analyses of ADHD identify 27 risk loci, refine the genetic architecture and implicate several cognitive domains.

Demontis D, Walters GB, Athanasiadis G, Walters R, Therrien K, Nielsen TT, Farajzadeh L, Voloudakis G, Bendl J, Zeng B, Zhang W, Grove J, Als TD, Duan J, Satterstrom FK, Bybjerg-Grauholm J, Bækved-Hansen M, Gudmundsson OO, Magnusson SH, Baldursson G, Davidsdottir K, Haraldsdottir GS, Agerbo E, Hoffman GE, Dalsgaard S, Martin J, Ribasés M, **Boomsma DI**, Soler Artigas M, Roth Mota N, Howrigan D, Medland SE, Zayats T, Rajagopal VM; ADHD Working Group of the Psychiatric Genomics Consortium; iPSYCH-Broad Consortium; Nordentoft M, Mors O, Hougaard DM, Mortensen PB, Daly MJ, Faraone SV, Stefansson H, Roussos P, Franke B, Werge T, Neale BM, Stefansson K, Børjglum AD.

Nat Genet. 2023 Jan 26. doi: 10.1038/s41588-022-01285-8. Online ahead of print. PMID: 36702997

<https://pubmed.ncbi.nlm.nih.gov/36702997/>

Diabetes and hypertension are related to amyloid-beta burden in the population-based Rotterdam Study.

van Arendonk J, Neitzel J, Steketee RME, van Assema DME, Vrooman HA, Segbers M, **Ikram MA**, Vernooij MW.

Brain. 2023 Jan 5;146(1):337-348. doi: 10.1093/brain/awac354. PMID: 36374264

<https://pubmed.ncbi.nlm.nih.gov/36374264/>

DNA methylation analysis identifies novel genetic loci associated with circulating fibrinogen levels in blood.

Hahn J, Bressler J, Domingo-Relloso A, Chen MH, McCartney DL, Teumer A, van Dongen J, Kleber ME, Aïssi D, Swenson BR, Yao J, Zhao W, Huang J, Xia Y, Brown MR, Costeira R, de Geus EJC, Delgado GE, Dobson DA, Elliott P, Grabe HJ, Guo X, Harris SE, Huffman JE, Kardia SLR, Liu Y, Lorkowski S, Marioni RE, Nauck M, Ratliff SM, Sabater-Lleal M, Spector TD, Suchon P, Taylor KD, Thibord F, Trégouët DA, Wiggins KL, Willemssen G, Bell JT, **Boomsma DI**, Cole SA, Cox SR, Dehghan A, Greinacher A, Haack K, März W, Morange PE, Rotter JI, Sotoodehnia N, Tellez-Plaza M, Navas-Acien A, Smith JA, Johnson AD, Fornage M, Smith NL, Wolberg AS, Morrison AC, de Vries PS.

J Thromb Haemost. 2023 Jan 27:S1538-7836(23)00050-8. doi: 10.1016/j.jtha.2023.01.015. Online ahead of print. PMID: 36716967

<https://pubmed.ncbi.nlm.nih.gov/36716967/>

Plasma MicroRNA Signature of Alcohol Consumption: The Rotterdam Study.

Karabegović I, Abozaid Y, Maas SCE, Labrecque J, Bos D, De Knecht RJ, **Ikram MA**, Voortman T, Ghanbari M.

J Nutr. 2023 Jan 14;152(12):2677-2688. doi: 10.1093/jn/nxac216. PMID: 36130258

<https://pubmed.ncbi.nlm.nih.gov/36130258/>

Expression of virulence and antimicrobial related proteins in Burkholderia mallei and Burkholderia pseudomallei.

Paauw A, Scholz HC, Mars-Groenendijk RH, Dekker LJM, **Luidier TM**, van Leeuwen HC.

PLoS Negl Trop Dis. 2023 Jan 6;17(1):e0011006. doi: 10.1371/journal.pntd.0011006. eCollection 2023 Jan. PMID: 36607891

<https://pubmed.ncbi.nlm.nih.gov/36607891/>

Phenotypic and Genetic Factors Associated with Absence of Cardiomyopathy Symptoms in PLN:c.40_42delAGA Carriers.

Lopera-Maya EA, Li S, de Brouwer R, Nolte IM, van Breen J; Netherlands A. C. M./P. L. N. Registry; Lifelines Cohort Study; Jongbloed JDH, **Swertz MA**, Snieder H, Franke L, Wijmenga C, de Boer RA, Deelen P, van der Zwaag PA, Sanna S.

J Cardiovasc Transl Res. 2023 Jan 9. doi: 10.1007/s12265-022-10347-5. Online ahead of print. PMID: 36622581

<https://pubmed.ncbi.nlm.nih.gov/36622581/>

Omic-Scale High-Throughput Quantitative LC-MS/MS Approach for Circulatory Lipid Phenotyping in Clinical Research.

Medina J, Borreggine R, Teav T, Gao L, Ji S, Carrard J, Jones C, Blomberg N, Jech M, Atkins A, Martins C, Schmidt-Trucksass A, **Giera M**, Cazenave-Gassiot A, Gallart-Ayala H, Ivanisevic J.

Anal Chem. 2023 Jan 30. doi: 10.1021/acs.analchem.2c02598. Online ahead of print. PMID: 36716250

<https://pubmed.ncbi.nlm.nih.gov/36716250/>

mRNA vaccines against SARS-CoV-2 induce comparably low long-term IgG Fc galactosylation and sialylation levels but increasing long-term IgG4 responses compared to an adenovirus-based vaccine.

Buhre JS, Pongracz T, Künsting I, Lixenfeld AS, Wang W, Nouta J, Lehrian S, Schmelter F, Lunding HB, Dühning L, Kern C, Petry J, Martin EL, Föh B, Steinhaus M, von Kopylow V, Sina C, Graf T, Rahmüller J, **Wuhrer M**, Ehlers M.

Front Immunol. 2023 Jan 12;13:1020844. doi: 10.3389/fimmu.2022.1020844. eCollection 2022. PMID: 36713457

<https://pubmed.ncbi.nlm.nih.gov/36713457/>

IgG Fab Glycans Hinder FcRn-Mediated Placental Transport.

Volkov M, Brinkhaus M, van Schie KA, Bondt A, Kissel T, van der Kooi EJ, Bentlage AEH, Koeleman CAM, de Taeye SW, Derksen NI, Dolhain RJEM, Braig-Scherer U, Huizinga TWJ, **Wuhrer M**, Toes REM, Vidarsson G, van der Woude D.

J Immunol. 2023 Jan 15;210(2):158-167. doi: 10.4049/jimmunol.2200438. PMID: 36480251

<https://pubmed.ncbi.nlm.nih.gov/36480251/>

CRISPR-screen identifies ZIP9 and dysregulated Zn²⁺ homeostasis as a cause of cancer-associated changes in glycosylation.

Rømer TB, Khoder-Agha F, Aasted MKM, de Haan N, Horn S, Dylander A, Zhang T, Pallesen EMH, Dabelsteen S, **Wuhrer M**, Høgsbro CF, Thomsen EA, Mikkelsen JG, Wandall HH.

Glycobiology. 2023 Jan 16:cwad003. doi: 10.1093/glycob/cwad003. Online ahead of print. PMID: 36648436

<https://pubmed.ncbi.nlm.nih.gov/36648436/>

O-glycomic and proteomic signatures of spontaneous and butyrate-stimulated colorectal cancer cell line differentiation.

Madunić K, Luijckx YMCA, Mayboroda OA, Janssen GMC, van Veelen PA, Strijbis K, Wennekes T, Lageveen-Kammeijer GSM, **Wuhrer M**.

Mol Cell Proteomics. 2023 Jan 17:100501. doi: 10.1016/j.mcpro.2023.100501. Online ahead of print. PMID: 36669592

<https://pubmed.ncbi.nlm.nih.gov/36669592/>

Serum N-Glycomic Biomarkers Predict Treatment Escalation in Inflammatory Bowel Disease.

Shubhakar A, Jansen BC, Adams AT, Reiding KR, Ventham NT, Kalla R, Bergemalm D, Urbanowicz PA, Gardner RA; IBD-BIOM Consortium; **Wuhrer M**, Halfvarson J, Satsangi J, Fernandes DL, Spencer DIR.

J Crohns Colitis. 2023 Jan 24:jjad012. doi: 10.1093/ecco-jcc/jjad012. Online ahead of print. PMID: 36694402

<https://pubmed.ncbi.nlm.nih.gov/36694402/>

Revealing charge heterogeneity of stressed trastuzumab at the subunit level.

Spanov B, Baartmans B, Olaleye O, Nicolardi S, Govorukhina N, **Wuhrer M**, van de Merbel NC, Bischoff R.

Anal Bioanal Chem. 2023 Jan 25. doi: 10.1007/s00216-023-04547-4. Online ahead of print. PMID: 36693954

<https://pubmed.ncbi.nlm.nih.gov/36693954/>

MOGS-CDG: quantitative analysis of the diagnostic Glc3 Man tetrasaccharide and clinical spectrum of six new cases.

Post MA, de Wit I, Zijlstra FSM, Engelke UFH, van Rooij A, Christodoulou J, Tan TY, Le Fevre A, Jin D, Yapliito-Lee J, Lee BH, Low KJ, Mallick AA, Öunap K, Pitt J, Reardon W, Vals MA, Wortmann SB, Wessels HJCT, Bärenfänger M, van Karnebeek CDM, **Lefeber DJ**.

J Inherit Metab Dis. 2023 Jan 18. doi: 10.1002/jimd.12588. Online ahead of print. PMID: 36651519

<https://pubmed.ncbi.nlm.nih.gov/36651519/>

Echtvar: compressed variant representation for rapid annotation and filtering of SNPs and indels.

Pedersen BS, **de Ridder J**.

Nucleic Acids Res. 2023 Jan 11;51(1):e3. doi: 10.1093/nar/gkac931. PMID: 36300617

<https://pubmed.ncbi.nlm.nih.gov/36300617/>

In Defense of the Netherlands Research Integrity Code: Response to Radder.

de Ridder J, Bouter L, Haven T, Peels R, Tjldink J, Zeegers MP.

Account Res. 2023 Jan 27. doi: 10.1080/08989621.2023.2167599. Online ahead of print. PMID: 36708135

<https://pubmed.ncbi.nlm.nih.gov/36708135/>