

[ORP2, a cholesterol transporter, regulates angiogenic signaling in endothelial cells.](#) Koponen A, Pan G, Kivelä AM, Ralko A, Taskinen JH, Arora A, Kosonen R, Kari OK, Ndika J, Ikonen E, Cho W, Yan D, Olkkonen VM. FASEB J. 2020 Sep 10. doi: 10.1096/fj.202000202R. Online ahead of print.

[Human essential hypertension: no significant association of polygenic risk scores with antihypertensive drug responses.](#) Sáñez Tähtisalo H, Ruotsalainen S, Mars N, Porthan K, Oikarinen L, Virolainen J, Fyhrquist F, Ripatti S, Kontula KK, Hiltunen TP. Sci Rep. 2020 Jul 20;10(1):11940. doi: 10.1038/s41598-020-68878-3.

[Leukocyte telomere length is inversely associated with arterial wave reflection in 566 normotensive and never-treated hypertensive subjects.](#) Honkonen M, Vääräniemi K, Saijonmaa O, Nyman A, Tikkakoski AJ, Koskela J, Lehtimäki T, Kähönen M, Mustonen J, Fyhrquist F, Pörsti I. Aging (Albany NY). 2020 Jun 23;12(12):12376-12392. doi: 10.18632/aging.103459. Epub 2020 Jun 23.

[Angiopietin-like protein 3, an emerging cardiometabolic therapy target with systemic and cell-autonomous functions.](#) Ruhanen H, Haridas PAN, Jauhiainen M, Olkkonen VM. Biochim Biophys Acta Mol Cell Biol Lipids. 2020 Aug 7:158791. doi: 10.1016/j.bbalip.2020.158791. Online ahead of print.

[Phenol-Enriched Virgin Olive Oil Promotes Macrophage-Specific Reverse Cholesterol Transport In Vivo.](#) Cedó L, Fernández-Castillejo S, Rubió L, Metso J, Santos D, Muñoz-Aguayo D, Rivas-Urbina A, Tondo M, Méndez-Lara KA, Farràs M, Jauhiainen M, Motilva MJ, Fitó M, Blanco-Vaca F, Solà R, Escolà-Gil JC. Biomedicines. 2020 Aug 3;8(8):E266. doi: 10.3390/biomedicines8080266.

[Motivational Interview to improve vascular health in Adolescents with poorly controlled type 1 Diabetes \(MIAD\): a randomized controlled trial.](#) Pulkkinen MA, Tuomaala AK, Hero M, Gordin D, Sarkola T. BMJ Open Diabetes Res Care. 2020 Jul;8(1):e001216. doi: 10.1136/bmjdr-2020-001216.

[No effect of gestational diabetes or pre-gestational obesity on 6-year offspring left ventricular function-RADIEL study follow-up.](#) Litwin L, Sundholm JKM, Rönö K, Koivusalo SB, Eriksson JG, Sarkola T. Acta Diabetol. 2020 Jul 28. doi: 10.1007/s00592-020-01571-z. Online ahead of print.

[Protrudin in protrudinG invadopodia: Membrane contact sites and cell invasion.](#) Arora A, Olkkonen VM. J Cell Biol. 2020 Aug 3;219(8):e202006146. doi: 10.1083/jcb.202006146.

[ORP/Osh mediate cross-talk between ER-plasma membrane contact site components and plasma membrane SNAREs.](#) Weber-Boyvat M, Trimbuch T, Shah S, Jäntti J, Olkkonen VM, Rosenmund C. Cell Mol Life Sci. 2020 Jul 30. doi: 10.1007/s00018-020-03604-w. Online ahead of print.

[LDL Receptor Regulates the Reverse Transport of Macrophage-Derived Unesterified Cholesterol via Concerted Action of the HDL-LDL Axis: Insight from Mouse Models.](#) Cedó L, Metso J, Santos D, García-León A, Plana N, Sabate-Soler S, Rotllan N, Rivas-Urbina A, Mendez-Lara KA, Tondo M, Girona J, Julve J, Pallarès V, Benitez-Amado A, Llorente Cortes V, Pérez A, Gómez-Coronado D, Ruotsalainen AK, Levonen AL, Sanchez-Quesada JL, Masana L, Kovanen PT, Jauhiainen MS, Lee-Rueckert M, Blanco-Vaca F, Escola-Gil JC. Circ Res. 2020 Jun 4. doi: 10.1161/CIRCRESAHA.119.316424. Online ahead of print.

[Pregnancy-Related Complications in Patients With Fibromuscular Dysplasia: A Report From the European/International Fibromuscular Dysplasia Registry.](#) Pappaccogli M, Prejbisz A, Ciurică S, Bruno RM, Aniszczuk-Hybiak A, Bracalente I, De Backer T, Debiève F, Delmotte P, Di Monaco S, Jarraya F, Gordin D, Kosiński P, Kroon AA, Maas AHEM, Marcon D, Minuz P, Montagud-Marrahi E, Pasquet A, Poch E, Rabbia F, Stergiou GS, Tikkanen I, Toubiana L, Vinck W, Warchol-Celińska E, Van der Niepen P, de Leeuw P, Januszewicz A, Persu A; European/International Fibromuscular Dysplasia Registry and Initiative (FEIRI) and the Working Group "Hypertension and the Kidney" of the ESH. Hypertension. 2020 Aug;76(2):545-553. doi: 10.1161/HYPERTENSIONAHA.120.15349. Epub 2020 Jul 8.

[Early Arterial Intimal Thickening and Plaque Is Related with Treatment Regime and Cardiovascular Disease Risk Factors in Young Adults Following Childhood Hematopoietic Stem Cell Transplantation.](#) Sundholm JKM, Suominen A, Sarkola T, Jahnukainen K. J Clin Med. 2020 Jul 13;9(7):E2208. doi: 10.3390/jcm9072208.

[Prenatal substance exposure, adverse childhood experiences and diagnosed mental and behavioral disorders - A longitudinal register-based matched cohort study in Finland.](#) Koponen AM, Nissinen NM, Gissler M, Autti-Rämö I, Sarkola T, Kahila H. SSM Popul Health. 2020 Jun 27;11:100625. doi: 10.1016/j.ssmph.2020.100625. eCollection 2020 Aug.

[MARC1 variant rs2642438 increases hepatic phosphatidylcholines and decreases severity of non-alcoholic fatty liver disease in humans.](#) Luukkonen PK, Juuti A, Sammalkorpi H, Penttilä AK, Orešič M, Hyötyläinen T, Arola J, Orho-Melander M, Yki-Järvinen H. J Hepatol. 2020 May 26:S0168-8278(20)30234-8. doi: 10.1016/j.jhep.2020.04.021. Online ahead of print.

[Impact of short-term overfeeding of saturated or unsaturated fat or sugars on the gut microbiota in relation to liver fat in obese and overweight adults.](#) Jian C, Luukkonen P, Sädevirta S, Yki-Järvinen H, Salonen A. Clin Nutr. 2020 May 16:S0261-5614(20)30224-7. doi: 10.1016/j.clnu.2020.05.008. Online ahead of print.

[Amiodarone disrupts cholesterol biosynthesis pathway and causes accumulation of circulating desmosterol by inhibiting 24-dehydrocholesterol reductase.](#) Simonen P, Li S, Chua NK, Lampi AM, Piironen V, Lommi J, Sinisalo J, Brown AJ, Ikonen E, Gylling H. J Intern Med. 2020 May 16. doi: 10.1111/joim.13095. Online ahead of print.

[Membrane Curvature Catalyzes Lipid Droplet Assembly.](#) Santinho A, Salo VT, Chorlay A, Li S, Zhou X, Omrane M, Ikonen E, Thiam AR. Curr Biol. 2020 Jul 6;30(13):2481-2494.e6. doi: 10.1016/j.cub.2020.04.066. Epub 2020 May 21.

[Stromal CAVIN1 Controls Prostate Cancer Microenvironment and Metastasis by Modulating Lipid Distribution and Inflammatory Signaling.](#) Low JY, Brennen WN, Meeker AK, Ikonen E, Simons BW, Laiho M. Mol Cancer Res. 2020 Jun 3. doi: 10.1158/1541-7786.MCR-20-0364. Online ahead of print.

[The cell biology of lipid droplets: More than just a phase.](#) Klemm RW, Ikonen E. Semin Cell Dev Biol. 2020 Jul 8:S1084-9521(20)30117-8. doi: 10.1016/j.semcdb.2020.06.016. Online ahead of print.

[Lysosome Associated Protein Transmembrane 4B \(LAPTM4B\)-24 is the predominant protein isoform in human tissues and undergoes rapid, nutrient-regulated turnover.](#) Zhou K, Dichlberger A, Ikonen E, Blom T. Am J Pathol. 2020 Jul 14:S0002-9440(20)30336-9. doi: 10.1016/j.ajpath.2020.07.003. Online ahead of print.

[Tankyrase inhibition ameliorates lipid disorder via suppression of PGC-1 \$\alpha\$ PARylation in db/db mice.](#) Wang H, Kuusela S, Rinnankoski-Tuikka R, Dumont V, Bouslama R, Ramadan UA, Waaler J, Linden AM, Chi NW, Krauss S, Pirinen E, Lehtonen S. Int J Obes (Lond). 2020 Apr 21. doi: 10.1038/s41366-020-0573-z. [Epub ahead of print]

[Hydroxysteroid 17- \$\beta\$ dehydrogenase 13 variant increases phospholipids and protects against fibrosis in nonalcoholic fatty liver disease.](#) Luukkonen PK, Tukiainen T, Juuti A, Sammalkorpi H, Haridas PAN, Niemelä O, Arola J, Orho-Melander M, Hakkarainen A, Kovanen PT, Dwivedi O, Groop L, Hodson L, Gastaldelli A, Hyötyläinen T, Orešič M, Yki-Järvinen H. JCI Insight. 2020 Mar 12;5(5). pii: 132158. doi: 10.1172/jci.insight.132158.

[Effect of a ketogenic diet on hepatic steatosis and hepatic mitochondrial metabolism in nonalcoholic fatty liver disease.](#) Luukkonen PK, Dufour S, Lyu K, Zhang XM, Hakkarainen A, Lehtimäki TE, Cline GW, Petersen KF, Shulman GI, Yki-Järvinen H. Proc Natl Acad Sci U S A. 2020 Mar 31;117(13):7347-7354. doi: 10.1073/pnas.1922344117. Epub 2020 Mar 16.

[LPIAT1/MBOAT7 depletion increases triglyceride synthesis fueled by high phosphatidylinositol turnover.](#) Tanaka Y, Shimanaka Y, Caddeo A, Kubo T, Mao Y, Kubota T, Kubota N, Yamauchi T, Mancina RM, Baselli G, Luukkonen P, Pihlajamäki J, Yki-Järvinen H, Valenti L, Arai H, Romeo S, Kono N. Gut. 2020 Apr 6. pii: gutjnl-2020-320646. doi: 10.1136/gutjnl-2020-320646. [Epub ahead of print]

[A new definition for metabolic dysfunction-associated fatty liver disease: An international expert consensus statement.](#) Eslam M, Newsome PN, Sarin SK, Anstee QM, Targher G, Romero-Gomez M, Zelber-Sagi S, Wai-Sun Wong V, Dufour JF, Schattenberg JM, Kawaguchi T, Arrese M, Valenti L, Shiha G, Tiribelli C, Yki-Järvinen H, Fan JG, Grønbaek H, Yilmaz Y, Cortez-Pinto H, Oliveira CP, Bedossa P, Adams LA, Zheng MH, Fouad Y, Chan WK, Mendez-Sanchez N, Ahn SH, Castera L, Bugianesi E, Ratziu V, George J. J Hepatol. 2020 Apr 8. pii: S0168-8278(20)30201-4. doi: 10.1016/j.jhep.2020.03.039. [Epub ahead of print] Review.

[Tropomyosin Tpm3.1 Is Required to Maintain the Structure and Function of the Axon Initial Segment.](#) Abouelezz A, Stefen H, Segerstråle M, Micinski D, Minkeviciene R, Lahti L, Hardeman EC, Gunning PW, Hoogenraad CC, Taira T, Fath T, Hotulainen P. iScience. 2020 Apr 12;23(5):101053. doi: 10.1016/j.isci.2020.101053. [Epub ahead of print]

[Two subphenotypes of septic acute kidney injury are associated with different 90-day mortality and renal recovery.](#) Wiersema R, Jukarainen S, Vaara ST, Poukkanen M, Lakkisto P, Wong H, Linder A, van der Horst ICC, Pettilä V. Crit Care. 2020 Apr 15;24(1):150. doi: 10.1186/s13054-020-02866-x.

[ANGPTL3 deficiency alters the lipid profile and metabolism of cultured hepatocytes and human lipoproteins.](#) Ruhanen H, Haridas PAN, Minicocci I, Taskinen JH, Palmas F, di Costanzo A, D'Erasmo L, Metso J, Partanen J, Dalli J, Zhou Y, Arca M, Jauhiainen M, Käkälä R, Olkkonen VM. Biochim Biophys Acta Mol Cell Biol Lipids. 2020 Jul;1865(7):158679. doi: 10.1016/j.bbalip.2020.158679. Epub 2020 Mar 6.

[The PNPLA3-I148M variant increases polyunsaturated triglycerides in human adipose tissue.](#) Qadri S, Lallukka-Brück S, Luukkonen PK, Zhou Y, Gastaldelli A, Orho-Melanders M, Sammalkorpi H, Juuti A, Penttilä AK, Perttilä J, Hakkarainen A, Lehtimäki TE, Orešič M, Hyötyläinen T, Hodson L, Olkkonen VM, Yki-Järvinen H. Liver Int. 2020 May 9. doi: 10.1111/liv.14507. [Epub ahead of print]

[Effect of four classes of antihypertensive drugs on cardiac repolarization heterogeneity: A double-blind rotational study.](#) Sáñez Tähtisalo H, Hiltunen TP, Kenttä T, Junttila J, Oikarinen L, Virolainen J, Kontula KK, Porthan K. PLoS One. 2020 Mar 24;15(3):e0230655. doi: 10.1371/journal.pone.0230655. eCollection 2020.

[High-content imaging and structure-based predictions reveal functional differences between Niemann-Pick C1 variants.](#) Vanharanta L, Peränen J, Pfisterer SG, Enkavi G, Vattulainen I, Ikonen E. Traffic. 2020 Mar 6. doi: 10.1111/tra.12727. [Epub ahead of print]

[Transient Receptor Potential Canonical \(TRPC\) Channels as Modulators of Migration and Invasion.](#) Asghar MY, Törnquist K. Int J Mol Sci. 2020 Mar 3;21(5). pii: E1739. doi: 10.3390/ijms21051739. Review.

[Compounds that modulate AMPK activity and hepatic steatosis impact the biosynthesis of microRNAs required to maintain lipid homeostasis in hepatocytes.](#) Latorre J, Ortega FJ, Liñares-Pose L, Moreno-Navarrete JM, Lluch A, Comas F, Oliveras-Cañellas N, Ricart W, Höring M, Zhou Y, Liebisch G, Nidhina Haridas PA, Olkkonen VM, López M, Fernández-Real JM. EBioMedicine. 2020 Mar 3;53:102697. doi: 10.1016/j.ebiom.2020.102697. [Epub ahead of print]

[Unfavorable Reduction in the Ratio of Endothelin B to A Receptors in Experimental 5/6 Nephrectomy and Adenine Models of Chronic Renal Insufficiency.](#) Törmänen S, Lakkisto P, Eräranta A, Kööbi P, Tikkanen I, Niemelä O, Mustonen J, Pörsti I. Int J Mol Sci. 2020 Jan 31;21(3). pii: E936. doi: 10.3390/ijms21030936.

[NuMA1 facilitates the assembly of the axon initial segment by promoting the retention of neurofascin-186.](#)

Abouelezz A, Hotulainen P. J Cell Biol. 2020 Feb 3;219(2). pii: e201911139. doi: 10.1083/jcb.201911139.

[IgE Contributes to Atherosclerosis and Obesity by Affecting Macrophage Polarization, Macrophage Protein Network, and Foam Cell Formation.](#)

Zhang X, Li J, Luo S, Wang M, Huang Q, Deng Z, de Febbo C, Daoui A, Liew PX, Sukhova GK, Metso J, Jauhiainen M, Guo J, Shi GP. Arterioscler Thromb Vasc Biol. 2020 Jan 30:ATVBAHA119313744. doi: 10.1161/ATVBAHA.119.313744. [Epub ahead of print]

[No detection of TSH or TSHR in oral lichen planus lesions in patients with or without hypothyroidism.](#)

Vehviläinen M, Salem A, Asghar MY, Salo T, Siponen M. Acta Odontol Scand. 2020 Feb 7:1-8. doi: 10.1080/00016357.2020.1720798. [Epub ahead of print]

[Differences in cardiac geometry in relation to body size among fetuses with abnormal fetal growth and body size at birth.](#)

Olander RFW, Sundholm JKM, Ojala TH, Andersson S, Sarkola T. Ultrasound Obstet Gynecol. 2020 Jan 7. doi: 10.1002/uog.21972. [Epub ahead of print]

[Vezf1 regulates cardiac structure and contractile function.](#)

Paavola J, Alakoski T, Ulvila J, Kilpiö T, Sirén J, Perttunen S, Narumanchi S, Wang H, Lin R, Porvari K, Junttila J, Huikuri H, Immonen K, Lakkisto P, Magga J, Tikkanen I, Kerkelä R. EBioMedicine. 2020 Jan 3;51:102608. doi: 10.1016/j.ebiom.2019.102608. [Epub ahead of print]

[Ceramides - a cause of insulin resistance in NAFLD in both murine models and humans.](#)

Yki-Järvinen H. Hepatology. 2020 Jan 3. doi: 10.1002/hep.31095. [Epub ahead of print]

[Quantitative PCR provides a simple and accessible method for quantitative microbiota profiling.](#)

Jian C, Luukkonen P, Yki-Järvinen H, Salonen A, Korpela K. PLoS One. 2020 Jan 15;15(1):e0227285. doi: 10.1371/journal.pone.0227285. eCollection 2020.

[OBEDIS Core Variables Project: European Expert Guidelines on a Minimal Core Set of Variables to Include in Randomized, Controlled Clinical Trials of Obesity Interventions.](#)

Alligier M, Barrès R, Blaak EE, Boirie Y, Bouwman J, Brunault P, Campbell K, Clément K, Farooqi IS, Farpour-Lambert NJ, Frühbeck G, Goossens GH, Hager J, Halford JCG, Hauner H, Jacobi D, Julia C, Langin D, Natali A, Neovius M, Oppert JM, Pagotto U, Palmeira AL, Roche H, Rydén M, Scheen AJ, Simon C, Sorensen TIA, Tappy L, Yki-Järvinen H, Ziegler O, Laville M. Obes Facts. 2020 Jan 16:1-28. doi: 10.1159/000505342. [Epub ahead of print]

[Nanoparticles carrying fingolimod and methotrexate enables targeted induction of apoptosis and immobilization of invasive thyroid cancer.](#)

Niemelä E, Desai D, Niemi R, Doroszko M, Özliseli E, Kemppainen K, Rahman NA, Sahlgren C, Törnquist K, Eriksson JE, Rosenholm JM. Eur J Pharm Biopharm. 2020 Jan 6. pii: S0939-6411(20)30002-3. doi: 10.1016/j.ejpb.2019.12.015. [Epub ahead of print]

[Disruption of PLTP \(Phospholipid Transfer Protein\)-Mediated HDL \(High-Density Lipoprotein\) Maturation Reduces SR-BI \(Scavenger Receptor BI\) Deficiency-Driven Atherosclerosis Susceptibility Despite Unexpected Metabolic Complications.](#)

Hoekstra M, van der Sluis RJ, Hildebrand RB, Lammers B, Zhao Y, Praticò D, van Berkel TJC, Rensen PCN, Kooijman S, Jauhiainen M, van Eck M. Arterioscler Thromb Vasc Biol. 2020 Jan 16:ATVBAHA119313862. doi: 10.1161/ATVBAHA.119.313862. [Epub ahead of print]

[OSBP-Related Protein 5L Maintains Intracellular IP₃/Ca²⁺ Signaling and Proliferation in T Cells by Facilitating PIP₂ Hydrolysis.](#)

Xu M, Zhu B, Cao X, Li S, Li D, Zhou H, Olkkonen VM, Zhong W, Xu J, Yan D. J Immunol. 2020 Jan 17. pii: ji1900671. doi: 10.4049/jimmunol.1900671. [Epub ahead of print]

[Dynamic Interaction of USP14 with the Chaperone HSC70 Mediates Crosstalk between the Proteasome, ER Signaling, and Autophagy.](#)

Srinivasan V, Bruelle C, Scifo E, Pham DD, Soliymani R, Lalowski M, Lindholm D. iScience. 2019 Dec 19;23(1):100790. doi: 10.1016/j.isci.2019.100790. [Epub ahead of print]

[Genetic and functional implications of an exonic TRIM55 variant in heart failure.](#) Heliste J, Chheda H, Paatero I, Salminen TA, Akimov Y, **Paavola J**, Elenius K, Aittokallio T. J Mol Cell Cardiol. 2019 Dec 19;138:222-233. doi: 10.1016/j.yjmcc.2019.12.008. [Epub ahead of print]

[MIM-Deficient Mice Exhibit Anatomical Changes in Dendritic Spines, Cortex Volume and Brain Ventricles, and Functional Changes in Motor Coordination and Learning.](#) Minkeviciene R, Hlushchenko I, Virenque A, Lahti L, Khanal P, Rauramaa T, Koistinen A, Leinonen V, Noe FM, Hotulainen P. Front Mol Neurosci. 2019 Nov 15;12:276. doi: 10.3389/fnmol.2019.00276. eCollection 2019.

[Annexin A6 modulates TBC1D15/Rab7/StARD3 axis to control endosomal cholesterol export in NPC1 cells.](#) Meneses-Salas E, García-Melero A, Kanerva K, Blanco-Muñoz P, Morales-Paytuvi F, Bonjoch J, Casas J, Egert A, Beevi SS, Jose J, Llorente-Cortés V, Rye KA, Heeren J, Lu A, Pol A, Tebar F, **Ikonen E**, Grewal T, Enrich C, Rentero C. Cell Mol Life Sci. 2019 Oct 29. doi: 10.1007/s00018-019-03330-y. [Epub ahead of print]

[ORP4L couples IP₃ to ITPR1 in control of endoplasmic reticulum calcium release.](#) Cao X, Chen J, Li D, Xie P, Xu M, Lin W, Li S, Pan G, Tang Y, Xu J, Olkkonen VM, Yan D, Zhong W. FASEB J. 2019 Oct 23:fj201900933RRR. doi: 10.1096/fj.201900933RRR. [Epub ahead of print]

[Fasting reveals largely intact systemic lipid mobilization mechanisms in respiratory chain complex III deficient mice.](#) Tomašić N, Kotarsky H, de Oliveira Figueiredo R, Hansson E, Mörgelin M, Tomašić I, Kallijärvi J, Elmer E, Jauhainen M, Eklund EA, Fellman V. Biochim Biophys Acta Mol Basis Dis. 2019 Oct 28:165573. doi: 10.1016/j.bbadis.2019.165573. [Epub ahead of print]

[Prolyl oligopeptidase inhibition reduces PolyQ aggregation and improves cell viability in cellular model of Huntington's disease.](#) Norrbacka S, Lindholm D, Myöhänen TT. J Cell Mol Med. 2019 Sep 29. doi: 10.1111/jcmm.14675. [Epub ahead of print] No abstract available.

[Association of endothelial and glycocalyx injury biomarkers with fluid administration, development of acute kidney injury, and 90-day mortality: data from the FINNAKI observational study.](#) Inkinen N, Pettilä V, Lakkisto P, Kuitunen A, Jukarainen S, Bendel S, Inkinen O, Ala-Kokko T, Vaara ST; FINNAKI Study Group. Ann Intensive Care. 2019 Sep 11;9(1):103. doi: 10.1186/s13613-019-0575-y.

[The association of endothelial injury and systemic inflammation with perioperative myocardial infarction.](#) Ollila A, Vikatmaa L, Virolainen J, Nisula S, Lakkisto P, Vikatmaa P, Tikkanen I, Venermo M, Pettilä V. Ann Clin Biochem. 2019 Sep 4:4563219873357. doi: 10.1177/0004563219873357. [Epub ahead of print] No abstract available.

[Genetic architecture of human plasma lipidome and its link to cardiovascular disease.](#) Tabassum R, Rämö JT, Ripatti P, Koskela JT, Kurki M, Karjalainen J, Palta P, Hassan S, Nunez-Fontarnau J, Kiiskinen TTJ, Söderlund S, Matikainen N, Gerl MJ, Surma MA, Klose C, Stitzel NO, Laivuori H, Havulinna AS, Service SK, Salomaa V, Pirinen M; FinnGen Project, Jauhainen M, Daly MJ, Freimer NB, Palotie A, Taskinen MR, Simons K, Ripatti S. Nat Commun. 2019 Sep 24;10(1):4329. doi: 10.1038/s41467-019-11954-8.