



## Compliant, Selected Member Publications

### Annual Report 2021-2022

1. Adedokun B, Du Z, Gao G, Ahearn TU, Lunetta KL, Zirpoli G, Figueroa J, John EM, Bernstein L, Zheng W, Hu JJ, Ziegler RG, Nyante S, Bandera EV, Ingles SA, Press MF, Deming-Halverson SL, Rodriguez-Gil JL, Yao S, Ogundiran TO, Ojengbede O, Blot W, Troester MA, Nathanson KL, Hennis A, Nemesure B, Ambs S, Fiorica PN, Sucheston-Campbell LE, Bensen JT, Kushi LH, Torres-Mejia G, Hu D, Fejerman L, Bolla MK, Dennis J, Dunning AM, Easton DF, Michailidou K, Pharoah PDP, Wang Q, Sandler DP, Taylor JA, O'Brien KM, Kitahara CM, Falusi AG, Babalola C, Yarney J, Awuah B, Addai-Wiafe B, Chanock SJ, Olshan AF, Ambrosone CB, Conti DV, Ziv E, Olopade OI, Garcia-Closas M, Palmer JR, Haiman CA, Huo D. Cross-ancestry GWAS meta-analysis identifies six breast cancer loci in African and European ancestry women. *Nat Commun.* 2021;12(1):4198. Epub 2021/07/09. doi: 10.1038/s41467-021-24327-x. PubMed PMID: 34234117; PMCID: PMC8263739.
2. Alam R, Peden DB, Lach JC. Wearable Respiration Monitoring: Interpretable Inference With Context and Sensor Biomarkers. *IEEE J Biomed Health Inform.* 2021;25(6):1938-48. Epub 2020/11/05. doi: 10.1109/jbhi.2020.3035776. PubMed PMID: 33147151; PMCID: PMC8238391.
3. Al-Shaer AE, Buddenbaum N, Shaikh SR. Polyunsaturated fatty acids, specialized pro-resolving mediators, and targeting inflammation resolution in the age of precision nutrition. *Biochim Biophys Acta Mol Cell Biol Lipids.* 2021;1866(7):158936. Epub 2021/04/02. doi: 10.1016/j.bbalip.2021.158936. PubMed PMID: 33794384; PMCID: PMC8496879.
4. Arogbokun O, Rosen E, Keil AP, Milne GL, Barrett E, Nguyen R, Bush NR, Swan SH, Sathyanarayana S, Ferguson KK. Maternal Oxidative Stress Biomarkers in Pregnancy and Child Growth from Birth to Age 6. *J Clin Endocrinol Metab.* 2021;106(5):1427-36. Epub 2021/02/02. doi: 10.1210/clinem/dgab018. PubMed PMID: 33524128; PMCID: PMC8171170.
5. Aygün N, Elwell AL, Liang D, Lafferty MJ, Cheek KE, Courtney KP, Mory J, Hadden-Ford E, Krupa O, de la Torre-Ubieta L, Geschwind DH, Love MI, Stein JL. Brain-trait-associated variants impact cell-type-specific gene regulation during neurogenesis. *Am J Hum Genet.* 2021;108(9):1647-68. Epub 2021/08/21. doi: 10.1016/j.ajhg.2021.07.011. PubMed PMID: 34416157; PMCID: PMC8456186.
6. Baden LR, El Sahly HM, Essink B, Kotloff K, Frey S, Novak R, Diemert D, Spector SA, Roupheal N, Creech CB, McGettigan J, Khetan S, Segall N, Solis J, Brosz A, Fierro C, Schwartz H, Neuzil K, Corey L, Gilbert P, Janes H, Follmann D, Marovich M, Mascola J, Polakowski L, Ledgerwood J, Graham BS, Bennett H, Pajon R, Knightly C, Leav B, Deng W, Zhou H, Han S, Ivarsson M, Miller J, Zaks T. Efficacy and Safety of

the mRNA-1273 SARS-CoV-2 Vaccine. *N Engl J Med.* 2021;384(5):403-16. Epub 2020/12/31. doi: 10.1056/NEJMoa2035389. PubMed PMID: 33378609; PMCID: PMC7787219 collaboration with Crucell/Janssen and Moderna; Dr. Rouphael, receiving grant support from Pfizer, Merck, Sanofi–Pasteur, Eli Lilly, and Quidel; Dr. Creech, receiving grant support from Merck, consulting fees from Horizon Pharma and GSK, and fees for serving on a data and safety monitoring board from Astellas; Dr. Neuzil, receiving grant support from Pfizer; Dr. Graham, holding pending patent WO/2018/081318 on prefusion coronavirus spike proteins and their use and pending patent 62/972,886 on 2019-nCoV vaccine; Dr. Bennett, being employed by and owning stock and stock options in Moderna; Dr. Pajon, being employed by and owning stock in Moderna; Dr. Knightly, being employed by and owning stock and stock options in Moderna; Drs. Leav, Deng, and Zhou being employees of Moderna; Dr. Han, being employed by and owning stock and stock options in Moderna; Dr. Ivarsson, being employed by and owning share options in Moderna; Dr. Miller, being employed by and owning stock and stock options in Moderna; and Dr. Zaks, being employed by and owning stock options in Moderna. No other potential conflict of interest relevant to this article was reported.

7. Baldwin JA, Lowe J, Brooks J, Charbonneau-Dahlen BK, Lawrence G, Johnson-Jennings M, Padgett G, Kelley M, Camplain C. Formative Research and Cultural Tailoring of a Substance Abuse Prevention Program for American Indian Youth: Findings From the Intertribal Talking Circle Intervention. *Health Promot Pract.* 2021;22(6):778-85. Epub 2020/05/15. doi: 10.1177/1524839920918551. PubMed PMID: 32406286; PMCID: PMC7666030.

8. Bangma JT, Hartwell H, Santos HP, Jr., O'Shea TM, Fry RC. Placental programming, perinatal inflammation, and neurodevelopment impairment among those born extremely preterm. *Pediatr Res.* 2021;89(2):326-35. Epub 2020/11/14. doi: 10.1038/s41390-020-01236-1. PubMed PMID: 33184498; PMCID: PMC7658618.

9. Baron JA, Nichols HB, Anderson C, Safe S. Cigarette Smoking and Estrogen-Related Cancer. *Cancer Epidemiol Biomarkers Prev.* 2021;30(8):1462-71. Epub 2021/05/16. doi: 10.1158/1055-9965.Epi-20-1803. PubMed PMID: 33990391; PMCID: PMC8338753.

10. Bégin P, Callum J, Jamula E, Cook R, Heddle NM, Tinmouth A, Zeller MP, Beaudoin-Bussi eres G, Amorim L, Bazin R, Loftsgard KC, Carl R, Chass e M, Cushing MM, Daneman N, Devine DV, Dumaresq J, Fergusson DA, Gabe C, Glesby MJ, Li N, Liu Y, McGeer A, Robitaille N, Sachais BS, Scales DC, Schwartz L, Shehata N, Turgeon AF, Wood H, Zarychanski R, Finzi A, Arnold DM. Convalescent plasma for hospitalized patients with COVID-19: an open-label, randomized controlled trial. *Nat Med.* 2021;27(11):2012-24. Epub 2021/09/11. doi: 10.1038/s41591-021-01488-2. PubMed PMID: 34504336; PMCID: PMC8604729.

11. Bhattacharya A, Hamilton AM, Furberg H, Pietzak E, Purdue MP, Troester MA, Hoadley KA, Love MI. An approach for normalization and quality control for NanoString RNA expression data. *Brief Bioinform.* 2021;22(3). Epub 2020/08/14. doi: 10.1093/bib/bbaa163. PubMed PMID: 32789507; PMCID: PMC8138885.

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13. Brandt K, Goel V, Keeler C, Bell GJ, Aiello AE, Corbie-Smith G, Wilson E, Fleischauer A, Emch M, Boyce RM. SARS-CoV-2 testing in North Carolina: Racial, ethnic, and geographic disparities. *Health Place*. 2021;69:102576. Epub 2021/04/30. doi: 10.1016/j.healthplace.2021.102576. PubMed PMID: 33915376; PMCID: PMC8212571.
14. Bulka CM, Avula V, Fry RC. Associations of exposure to perfluoroalkyl substances individually and in mixtures with persistent infections: Recent findings from NHANES 1999-2016. *Environ Pollut*. 2021;275:116619. Epub 2021/02/13. doi: 10.1016/j.envpol.2021.116619. PubMed PMID: 33578314; PMCID: PMC7957906.
15. Cai J, Kim S. Case-cohort design in hematopoietic cell transplant studies. *Bone Marrow Transplant*. 2022;57(1):1-5. Epub 2021/08/18. doi: 10.1038/s41409-021-01433-4. PubMed PMID: 34400795; PMCID: PMC8738130.
16. Cal-Kayitmazbatir S, Kulkoyluoglu-Cotul E, Growe J, Selby CP, Rhoades SD, Malik D, Oner H, Asimgil H, Francey LJ, Sancar A, Kruger WD, Hogenesch JB, Weljie A, Anafi RC, Kavakli IH. CRY1-CBS binding regulates circadian clock function and metabolism. *Febs j*. 2021;288(2):614-39. Epub 2020/05/10. doi: 10.1111/febs.15360. PubMed PMID: 32383312; PMCID: PMC7648728.
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19. Cárdenas-de-la-Parra A, Lewis JD, Fonov VS, Botteron KN, McKinstry RC, Gerig G, Pruett JR, Jr., Dager SR, Elison JT, Styner MA, Evans AC, Piven J, Collins DL. A voxel-wise assessment of growth differences in infants developing autism spectrum disorder. *Neuroimage Clin*. 2021;29:102551. Epub 2021/01/10. doi: 10.1016/j.nicl.2020.102551. PubMed PMID: 33421871; PMCID: PMC7806791.
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21. Carvajal-Garcia J, Crown KN, Ramsden DA, Sekelsky J. DNA polymerase theta suppresses mitotic crossing over. *PLoS Genet*. 2021;17(3):e1009267. Epub 2021/03/23. doi: 10.1371/journal.pgen.1009267. PubMed PMID: 33750946; PMCID: PMC8016270.

22. Chen J, Spracklen CN, Marenne G, Varshney A, Corbin LJ, Luan J, Willems SM, Wu Y, Zhang X, Horikoshi M, Boutin TS, Mägi R, Waage J, Li-Gao R, Chan KHK, Yao J, Anasanti MD, Chu AY, Claringbould A, Heikkinen J, Hong J, Hottenga JJ, Huo S, Kaakinen MA, Louie T, März W, Moreno-Macias H, Ndungu A, Nelson SC, Nolte IM, North KE, Raulerson CK, Ray D, Rohde R, Rybin D, Schurmann C, Sim X, Southam L, Stewart ID, Wang CA, Wang Y, Wu P, Zhang W, Ahluwalia TS, Appel EVR, Bielak LF, Brody JA, Burt NP, Cabrera CP, Cade BE, Chai JF, Chai X, Chang LC, Chen CH, Chen BH, Chitrala KN, Chiu YF, de Haan HG, Delgado GE, Demirkan A, Duan Q, Engmann J, Fatumo SA, Gayán J, Giulianini F, Gong JH, Gustafsson S, Hai Y, Hartwig FP, He J, Heianza Y, Huang T, Huerta-Chagoya A, Hwang MY, Jensen RA, Kawaguchi T, Kentistou KA, Kim YJ, Kleber ME, Kooner IK, Lai S, Lange LA, Langefeld CD, Lauzon M, Li M, Ligthart S, Liu J, Loh M, Long J, Lyssenko V, Mangino M, Marzi C, Montasser ME, Nag A, Nakatochi M, Noce D, Noordam R, Pistis G, Preuss M, Raffield L, Rasmussen-Torvik LJ, Rich SS, Robertson NR, Rueedi R, Ryan K, Sanna S, Saxena R, Schraut KE, Sennblad B, Setoh K, Smith AV, Sparsø T, Strawbridge RJ, Takeuchi F, Tan J, Trompet S, van den Akker E, van der Most PJ, Verweij N, Vogel M, Wang H, Wang C, Wang N, Warren HR, Wen W, Wilsgaard T, Wong A, Wood AR, Xie T, Zafarmand MH, Zhao JH, Zhao W, Amin N, Arzumanyan Z, Astrup A, Bakker SJL, Baldassarre D, Beekman M, Bergman RN, Bertoni A, Blüher M, Bonnycastle LL, Bornstein SR, Bowden DW, Cai Q, Campbell A, Campbell H, Chang YC, de Geus EJC, Dehghan A, Du S, Eiriksdottir G, Farmaki AE, Frånberg M, Fuchsberger C, Gao Y, Gjesing AP, Goel A, Han S, Hartman CA, Herder C, Hicks AA, Hsieh CH, Hsueh WA, Ichihara S, Igase M, Ikram MA, Johnson WC, Jørgensen ME, Joshi PK, Kalyani RR, Kandeel FR, Katsuya T, Khor CC, Kiess W, Kolcic I, Kuulasmaa T, Kuusisto J, Läll K, Lam K, Lawlor DA, Lee NR, Lemaitre RN, Li H, Lin SY, Lindström J, Linneberg A, Liu J, Lorenzo C, Matsubara T, Matsuda F, Mingrone G, Mooijaart S, Moon S, Nabika T, Nadkarni GN, Nadler JL, Nelis M, Neville MJ, Norris JM, Ohyagi Y, Peters A, Peyser PA, Polasek O, Qi Q, Raven D, Reilly DF, Reiner A, Rivideneira F, Roll K, Rudan I, Sabanayagam C, Sandow K, Sattar N, Schürmann A, Shi J, Stringham HM, Taylor KD, Teslovich TM, Thuesen B, Timmers P, Tremoli E, Tsai MY, Uitterlinden A, van Dam RM, van Heemst D, van Hylckama Vlieg A, van Vliet-Ostaptchouk JV, Vangipurapu J, Vestergaard H, Wang T, Willems van Dijk K, Zemunik T, Abecasis GR, Adair LS, Aguilar-Salinas CA, Alarcón-Riquelme ME, An P, Aviles-Santa L, Becker DM, Beilin LJ, Bergmann S, Bisgaard H, Black C, Boehnke M, Boerwinkle E, Böhm BO, Bønnelykke K, Boomsma DI, Bottinger EP, Buchanan TA, Canouil M, Caulfield MJ, Chambers JC, Chasman DI, Chen YI, Cheng CY, Collins FS, Correa A, Cucca F, de Silva HJ, Dedoussis G, Elmståhl S, Evans MK, Ferrannini E, Ferrucci L, Florez JC, Franks PW, Frayling TM, Froguel P, Gigante B, Goodarzi MO, Gordon-Larsen P, Grallert H, Grarup N, Grimsgaard S, Groop L, Gudnason V, Guo X, Hamsten A, Hansen T, Hayward C, Heckbert SR, Horta BL, Huang W, Ingelsson E, James PS, Jarvelin MR, Jonas JB, Jukema JW, Kaleebu P, Kaplan R, Kardina SLR, Kato N, Keinanen-Kiukaanniemi SM, Kim BJ, Kivimaki M, Koistinen HA, Kooner JS, Körner A, Kovacs P, Kuh D, Kumari M, Kutalik Z, Laakso M, Lakka TA, Launer LJ, Leander K, Li H, Lin X, Lind L, Lindgren C, Liu S, Loos RJF, Magnusson PKE, Mahajan A, Metspalu A, Mook-Kanamori DO, Mori TA, Munroe PB, Njølstad I, O'Connell JR, Oldehinkel AJ, Ong KK, Padmanabhan S, Palmer CNA, Palmer ND, Pedersen O, Pennell CE, Porteous DJ, Pramstaller PP, Province MA, Psaty BM, Qi L, Raffel LJ, Rauramaa R, Redline S, Ridker PM, Rosendaal FR, Saaristo TE, Sandhu M, Saramies J, Schneiderman N, Schwarz P, Scott LJ, Selvin E, Sever P, Shu XO, Slagboom PE, Small KS, Smith BH, Snieder H, Sofer T, Sørensen TIA, Spector TD, Stanton A, Steves CJ, Stumvoll M, Sun L, Tabara Y, Tai ES, Timpson NJ, Tönjes A, Tuomilehto J, Tusie T, Uusitupa M, van der Harst P, van Duijn C, Vitart V, Vollenweider P, Vrijkkotte TGM, Wagenknecht LE, Walker M, Wang YX, Wareham NJ, Watanabe RM, Watkins H, Wei WB, Wickremasinghe AR, Willemsen G, Wilson JF, Wong TY, Wu JY, Xiang AH, Yanek LR, Yengo L, Yokota M, Zeggini E, Zheng W, Zonderman AB, Rotter JI, Gloyn AL, McCarthy MI, Dupuis J, Meigs JB, Scott RA, Prokopenko I, Leong A, Liu CT, Parker SCJ, Mohlke KL, Langenberg C, Wheeler E, Morris AP, Barroso I. The trans-ancestral genomic architecture of glycemic traits. *Nat Genet.* 2021;53(6):840-60. Epub 2021/06/02. doi: 10.1038/s41588-021-00852-9. PubMed PMID: 34059833; PMCID: PMC7610958.

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27. Choi HY, Jo H, Zhao X, Hoadley KA, Newman S, Holt J, Hayward MC, Love MI, Marron JS, Hayes DN. SCISSOR: a framework for identifying structural changes in RNA transcripts. *Nat Commun*. 2021;12(1):286. Epub 2021/01/14. doi: 10.1038/s41467-020-20593-3. PubMed PMID: 33436599; PMCID: PMC7804101.
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Parliament M, Claessens F, Joniau S, Van den Broeck T, Gago-Dominguez M, Castelao JE, Martinez ME, Larkin S, Townsend PA, Aukim-Hastie C, Bush WS, Aldrich MC, Crawford DC, Srivastava S, Cullen JC, Petrovics G, Casey G, Roobol MJ, Jenster G, van Schaik RHN, Hu JJ, Sanderson M, Varma R, McKean-Cowdin R, Torres M, Mancuso N, Berndt SI, Van Den Eeden SK, Easton DF, Chanock SJ, Cook MB, Wiklund F, Nakagawa H, Witte JS, Eeles RA, Kote-Jarai Z, Haiman CA. Trans-ancestry genome-wide association meta-analysis of prostate cancer identifies new susceptibility loci and informs genetic risk prediction. *Nat Genet.* 2021;53(1):65-75. Epub 2021/01/06. doi: 10.1038/s41588-020-00748-0. PubMed PMID: 33398198; PMCID: PMC8148035.

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