

PUBLICATION SUMMARY

19 papers (18 original papers and 1 review, 12x first or co-first author) incl. 1x Biological Psychiatry, 1x PNAS. A manuscript sent to Nature Genetics was accepted, pending revisions, on January 28, 2025. Three additional manuscripts are in preparation for submission, including one as a senior author.

> 1,000 citations, h-index 14, i10-index 16 (Google Scholar) <https://scholar.google.com/citations?user=cj6-bD4AAAAJ&hl=en>

(IF) Journal impact factor highlighted for most publications.

* indicates co- first author

ACCEPTED PENDING REVISIONS

Shorter J.R., Pasma JA, Kurvits S, Jangmo A, Naamanka J, Harder A, Hagen E, Kowalec K, Frilander N, Zetterberg R, Meijsen JJ, Gådin JR, Bergstedt J, Xiong Y, Hägg S, Landén M, Rück C, Wallert J, Skalkidou A, Koch E, Akdeniz BC, Frei O, Estonian Biobank research team, FinnGen, Hovatta IM, Werge TM, Sullivan PF, Andreassen O, Tesli M, Lehto K, Lu Y, Buil A. Genome-wide association study using Nordic biobank and longitudinal health registry reveals different genetic architecture between early- and late-onset depression. *Nat Genet.* 2025. Accepted with revisions.

ORIGINAL CONTRIBUTIONS

1. Meijsen J, Hu K, Krebs MD, Athanasiadis G, Washbrook S, Zetterberg R, Avelar E Silva RN, **Shorter JR**, Gådin JR, Bergstedt J, Howard DM, Ye W, Lu Y, Valdimarsdóttir UA, Ingason A, Helenius D, Plana-Ripoll O, McGrath JJ, Micali N, Andreassen OA, Werge TM, Fang F, Buil A. Quantifying the relative importance of genetics and environment on the comorbidity between mental and cardiometabolic disorders using 17 million Scandinavians. *Nat Commun.* 2024 Jun 13;15(1):5064. doi: 10.1038/s41467-024-49507-3. PMID: 38871766; PMCID: PMC11176385. IF -- 14.7
2. Akdeniz BC, Frei O, Hagen E, Filiz TT, Karthikeyan S, Pasma J, Jangmo A, Bergstedt J, **Shorter JR**, Zetterberg R, Meijsen J, Sønderby IE, Buil A, Tesli M, Lu Y, Sullivan P, Andreassen OA, Hovig E. COSGAP: CONtainerized Statistical Genetics Analysis Pipelines. *Bioinform Adv.* 2024 May 9;4(1):vbae067. doi: 10.1093/bioadv/vbae067. PMID: 38808072; PMCID: PMC11132817. IF – 2.4
3. Vaez M, Montalbano S, Sánchez XC, Georgii Hellberg KL, Rasekhi Dehkordi S, Dybdahl Krebs M, Meijsen J, **Shorter J**, Byberg-Grauholm J, Mortensen PB, Børghlum AD, Hougaard DM, Nordentoft M, Geschwind DH, Buil A, Schork AJ; iPSYCH Investigators; Helenius D, Raznahan A, Thompson WK, Werge T, Ingason A. Population-based Risk of Psychiatric Disorders Associated with Recurrent CNVs. *JAMA Psychiatry.* Published online June 26, 2024. doi:10.1001/jamapsychiatry.2024.1453. IF - 22.5
4. Pasma JA, Meijsen JJ, Haram M, Kowalec K, Harder A, Xiong Y, Nguyen TD, Jangmo A, Shorter JR, Bergstedt J, Das U, Zetterberg R, Tate A, Lichtenstein P, Larsson H, Odsbu I, Werge T, Reichborn-Kjennerud T, Andreassen OA, Sullivan PF, Buil A, Tesli M, Lu Y. Epidemiological overview of major depressive disorder in Scandinavia using nationwide registers. *Lancet Reg Health Eur.* 2023 Mar 28;29:100621. doi: 10.1016/j.lanepe.2023.100621. PMID: 37265784; PMCID: PMC10230616. IF - 13.6
5. **Shorter, J.R.**, Meijsen, JJ, Nudel, R., Krebs, M., Gadin J., Mikkelsen D.H., Silva, R.N.A., Benros, M.E., Thompson, W.K., Ingason, A., Werge, T. Infection polygenetic factors account for a small proportion of the relationship between infections and psychiatric disorders. *Biological Psychiatry.* (2022). <https://doi.org/10.1016/j.biopsych.2022.01.007> IF – 13.38

6. *Gu B, ***Shorter JR**, Williams LH, et al. Collaborative Cross mice reveal extreme epilepsy phenotypes and genetic loci for seizure susceptibility. *Epilepsia*. (2020) Aug 27. doi: 10.1111/epi.16617. IF – 5.86
7. Sigmon JS, et al. Content and Performance of the MiniMUGA Genotyping Array, a New Tool To Improve Rigor and Reproducibility in Mouse Research. *Genetics*. (2020) Oct 16. doi: 10.1534/genetics.120.303596. IF – 4.56
8. **Shorter, J.R.**, Kashfeen, A., Najarian, M., McMillan, L., Pardo-Manuel de Villena, F. (2019). Whole genome sequence of six additional Collaborative Cross mouse inbred strains. *G3 (Bethesda)* 9:1303–1311. IF – 3.15
9. **Shorter, J.R.**, Maurizio, P., Bell, T. A., Shaw, G., Miller, D. R. *et al.* (2019). A diallel cross of the eight Collaborative Cross founder strains exploring reproductive ability shows additive effects and strong maternal effects on litter size. *G3 (Bethesda)* 9:1613-1622. IF – 3.15
10. **Shorter, J.R.**, Huang, W., Hua, K., Gatti, D., Pardo-Manuel de Villena, F., Pomp, D., Jensen, B. C. (2018). Quantitative trait mapping in Diversity Outbred mice identifies two genomic regions associated with heart size. *Mammalian Genome*. 29: 80-89. IF – 2.96
11. **Shorter, J.R.**, Odet, F., Aylor, D.F., Pan, W., Kao, C-Y., *et al.*, (2017). Male infertility is responsible for nearly half of the strain extinction observed in the Collaborative Cross. *Genetics* 206(2) 557-572. IF – 4.56
12. Srivastava, A., Morgan, A.P., Najarian, M., Sarsani, V.K., Sigmon J.S., **Shorter, J.R.**, *et al.* (2017). The genomes of the Collaborative Cross. *Genetics* 206(2) 537-556. IF – 4.56
13. **Shorter, J.R.**, Dembeck, L.M., Everett, L.J., Morozova, T.V., *et al.* (2016). *Obp56h* Modulates mating behavior in *Drosophila melanogaster*. *G3*, 6: 3335-3342. IF – 3.15
14. **Shorter, J.R.**, Couch, C., Huang, W., Carbone, M.A., Peiffer, J., Anholt, R. R. H., and Mackay, T. F. C. (2015). Genetic architecture of natural variation in *Drosophila melanogaster* aggressive behavior. *Proceedings of the National Academy of Sciences of the United States of America*, 112(27), E3555–E3563. IF – 11.2
15. **Shorter, J.R.**, Geisz M., Özsoy E., Magwire M.M., Carbone M.A., *et al.* (2015). The effects of royal jelly on fitness traits and gene expression in *Drosophila melanogaster*. *PLoS ONE* 10(7): e0134612. IF – 3.24
16. **Shorter, J.R.**, Arechavaleta-Velasco, M., Robles-Rios C., and Hunt, G.J. (2012). A genetic analysis of the stinging and guarding behaviors of the honey bee. *Behavioral Genetics*. 42: 663-674. IF – 2.8
17. **Shorter, J.R.** and Rueppell, O. (2012). A review on self-destructive defensive behaviors in social insects. *Insects Sociaux*. 59: 1-10. IF – 1.64
18. **Shorter, J.R.** and Tibbetts, E.A. (2009). The effect of juvenile hormone on temporal polyethism in the paper wasp *Polistes dominulus*. *Insectes Sociaux*. 56: 7-13. IF – 1.64
19. Tibbetts, E.A. and **Shorter, J.R.** (2009). How do fighting ability and nest value influence usurpation contests in *Polistes* wasps? *Behavioral Ecology and Sociobiology* 63: 1377-1385. IF – 2.98

IN PREP

1. Appadurai V, Krebs M, Georgii-Hellberg KL, **Shorter J.R.**, Meijsen J, Schork A, Werge T, iPSYCH Collaborators. A second iteration of the iPSYCH cross-disorder study compares across and between disorders GWAS.

2. Angelucci S, Hansen MS, Hansen AFH, Houliind M, Bayat A, **Shorter J.R.**, Pharmacokinetics of Perampanel in Danish Pediatric Patients with Epilepsy.
3. Frisk NLS, **Shorter J.R.**, Ostrowski SR, Sørensen E, Mikkelsen C, Erikstrup C, Dinh KM, Mikkelsen S, Bay JT, Bruun MT, Jensen BA, Banasik K, Hjalgrim H, Hansen TF, Pedersen OBV, Dalgaard LT. Prevalence and Characteristics of Patients with Hypothyroidism in the Danish Blood Donor Study.