



**New publications in the field  
(September 2024)**

## OBSESSIVE-COMPULSIVE DISORDER

Pol-Fuster J, Fernández de la Cruz L, Beucke J, Hesselmark E, Crowley JJ, de Schipper E, Brikell I, Chang Z, D'Onofrio BM, Larsson H, Lichtenstein P, Kuja-Halkola R, Mataix-Cols D. A population-based multigenerational family co-aggregation study of severe infections and obsessive-compulsive disorder. *Biol Psychiatry*. 2024 Sep 14;S0006-3223(24)01587-7.

<https://doi.org/10.1016/j.biopsych.2024.09.004>. Epub ahead of print. PMID: 39284402.

\*Strom NI, Burton CL, Iyegbe C, Silzer T, Antonyan L, Pool R, Lemire M, Crowley JJ, Hottenga JJ, Ivanov VZ, Larsson H, Lichtenstein P, Magnusson P, Rück C, Schachar R, Wu HM, Cath D, Crosbie J, Mataix-Cols D, Boomsma DI, Mattheisen M, Meier SM, Smit DJA, Arnold PD. Genome-Wide Association Study of Obsessive-Compulsive Symptoms including 33,943 individuals from the general population. *Mol Psychiatry*. 2024 Sep;29(9):2714-2723. <https://doi.org/10.1038/s41380-024-02489-6>. Epub 2024 Mar 28. PMID: 38548983; PMCID: PMC11420085.

## ANXIETY & PTSD

\*Wani AH, Katrinli S, Zhao X, Daskalakis NP, Zannas AS, Aiello AE, Baker DG, Boks MP, Brick LA, Chen CY, Dalvie S, Fortier C, Geuze E, Hayes JP, Kessler RC, King AP, Koen N, Liberzon I, Lori A, Luykx JJ, Maihofer AX, Milberg W, Miller MW, Mufford MS, Nugent NR, Rauch S, Ressler KJ, Risbrough VB, Rutten BPF, Stein DJ, Stein MB, Ursano RJ, Verfaellie MH, Vermetten E, Vinkers CH, Ware EB, Wildman DE, Wolf EJ, Nievergelt CM, Logue MW, Smith AK, Uddin M. Blood-based DNA methylation and exposure risk scores predict PTSD with high accuracy in military and civilian cohorts. *BMC Med Genomics*. 2024 Sep 27;17(1):235. <https://doi.org/10.1186/s12920-024-02002-6>. PMID: 39334086; PMCID: PMC11429352.

Khanal P, Ståhlberg T, Upadhyaya S, Heinonen E, Ortin-Peralta A, Sourander A. Parental psychopathology and offspring anxiety disorders in childhood and adolescence: A Finnish nationwide register study. *J Affect Disord*. 2024 Sep 18;368:374-382. <https://doi.org/10.1016/j.jad.2024.09.046>. Epub ahead of print. PMID: 39303879.

Friligkou E, Løkhammer S, Cabrera-Mendoza B, Shen J, He J, Deiana G, Zanoaga MD, Asgel Z, Pilcher A, Di Lascio L, Makharashvili A, Koller D, Tylee DS, Pathak GA, Polimanti R. Gene discovery and biological insights into anxiety disorders from a large-scale multi-ancestry genome-wide association study. *Nat Genet.* 2024 Sep 18. <https://doi.org/10.1038/s41588-024-01908-2>. Epub ahead of print. PMID: 39294497.

Lu Q, Lyu Y, Jia N, Dong L, Zhang M, Jin M, Xie M, Li J, Xue F, Li W, Yang Y, Yu Q. Socioeconomic status, individual behaviors and risk of anxiety disorders: A Mendelian randomization study. *J Affect Disord.* 2024 Sep 14;368:33-40. <https://doi.org/10.1016/j.jad.2024.09.028>. Epub ahead of print. PMID: 39265863.

Chen MH, Pan TL, Cheng CM, Chang WH, Bai YM, Su TP, Chen TJ, Tsai SJ. Familial coaggregation of major psychiatric disorders and neurodevelopmental disorders among first-degree relatives of individuals with generalized anxiety disorder. *J Affect Disord.* 2024 Sep 12;368:48-54. <https://doi.org/10.1016/j.jad.2024.09.070>. Epub ahead of print. PMID: 39277032.

\*Siddiqi, S.H., Philip, N.S., Palm, S.T. *et al.* [A potential target for noninvasive neuromodulation of PTSD symptoms derived from focal brain lesions in veterans.](#) *Nat Neurosci* (2024). <https://doi.org/10.1038/s41593-024-01772-7>

Milena Girotti, Sarah E. Bulin, Flavia R. Carreno, [Effects of chronic stress on cognitive function – From neurobiology to intervention](#), *Neurobiology of Stress*, Volume 33, 2024, <https://doi.org/10.1016/j.ynstr.2024.100670>.

Wani, A.H., Katrinli, S., Zhao, X. *et al.* [Blood-based DNA methylation and exposure risk scores predict PTSD with high accuracy in military and civilian cohorts.](#) *BMC Med Genomics* 17, 235 (2024). <https://doi.org/10.1186/s12920-024-02002-6>

Emily M. Hicks, Maria Niarchou, Slavina Goleva, Dia Kabir, Jessica Johnson, Keira J.A. Johnston, Julia Ciarcia, Gita A. Pathak, Jordan W. Smoller, Lea K. Davis, Caroline M. Nievergelt, Karestan C. Koenen, Laura M. Huckins, Karmel W. Choi, [Comorbidity Profiles of Posttraumatic Stress Disorder Across the Medical Phenome](#), *Biological Psychiatry Global Open Science*, Volume 4, Issue 5, 2024, <https://doi.org/10.1016/j.bpsgos.2024.100337>.

## DEPRESSION

\*Tse, N.Y., Ratheesh, A., Tian, Y.E. et al. [A mega-analysis of functional connectivity and network abnormalities in youth depression](https://doi.org/10.1038/s44220-024-00309-y). *Nat. Mental Health* (2024). <https://doi.org/10.1038/s44220-024-00309-y>

Zhang, Y., Huang, CC., Zhao, J. et al. [Dysfunction in sensorimotor and default mode networks in major depressive disorder with insights from global brain connectivity](https://doi.org/10.1038/s44220-024-00323-0). *Nat. Mental Health* (2024). <https://doi.org/10.1038/s44220-024-00323-0>

Ceja Z, Van Velzen LS, Campos AI, Jahanshad N, Medland SE, Edwards AC, Schmaal L, Rentería ME. Recent breakthroughs in genetic and brain structural correlates of suicidal behaviours: A short review. *Biol Psychiatry*. 2024 Sep 19:S0006-3223(24)01610-X. <https://doi.org/10.1016/j.biopsych.2024.09.010>. Epub ahead of print. PMID: 39305971.

Buczowska M, Iob E. Testing the causal relationship of fat and sugar intake with depression and cortisol: a Mendelian Randomisation study. *Transl Psychiatry*. 2024 Sep 10;14(1):368. <https://doi.org/10.1038/s41398-024-03089-2>. PMID: 39256365; PMCID: PMC11387734.

Shaikh M, Doshi G. Epigenetic aging in major depressive disorder: Clocks, mechanisms and therapeutic perspectives. *Eur J Pharmacol*. 2024 Sep 5;978:176757. <https://doi.org/10.1016/j.ejphar.2024.176757>. Epub 2024 Jun 17. PMID: 38897440.

Crouse JJ, Park SH, Byrne EM, Mitchell BL, Scott J, Medland SE, Lin T, Wray NR, Martin NG, Hickie IB. Patterns of stressful life events and polygenic scores for five mental disorders and neuroticism among adults with depression. *Mol Psychiatry*. 2024 Sep;29(9):2765-2773. <https://doi.org/10.1038/s41380-024-02492-x>. Epub 2024 Apr 4. PMID: 38575805; PMCID: PMC11420070.

\*Lynch, C.J., Elbau, I.G., Ng, T. et al. [Frontostriatal salience network expansion in individuals in depression](https://doi.org/10.1038/s41586-024-07805-2). *Nature* 633, 624–633 (2024). <https://doi.org/10.1038/s41586-024-07805-2>

## MULTIPLE DISORDERS

\*McGorry PD, Mei C, Dalal N, Alvarez-Jimenez M, Blakemore SJ, Browne V, Dooley B, Hickie IB, Jones PB, McDaid D, Mihalopoulos C, Wood SJ, El Azzouzi FA, Fazio J, Gow E, Hanjabam S, Hayes

A, Morris A, Pang E, Paramasivam K, Quagliato Nogueira I, Tan J, Adelsheim S, Broome MR, Cannon M, Chanen AM, Chen EYH, Danese A, Davis M, Ford T, Gonsalves PP, Hamilton MP, Henderson J, John A, Kay-Lambkin F, Le LK, Kieling C, Mac Dhonnagáin N, Malla A, Nieman DH, Rickwood D, Robinson J, Shah JL, Singh S, Soosay I, Tee K, Twenge J, Valmaggia L, van Amelsvoort T, Verma S, Wilson J, Yung A, Iyer SN, Killackey E. The Lancet Psychiatry Commission on youth mental health. *Lancet Psychiatry*. 2024 Sep;11(9):731-774. [https://doi.org/10.1016/S2215-0366\(24\)00163-9](https://doi.org/10.1016/S2215-0366(24)00163-9). PMID: 39147461.

\*Danese A, Widom CS. Objective and subjective experiences of childhood maltreatment and their relationships with cognitive deficits: a cohort study in the USA. *Lancet Psychiatry*. 2024 Sep;11(9):720-730. [https://doi.org/10.1016/S2215-0366\(24\)00224-4](https://doi.org/10.1016/S2215-0366(24)00224-4). PMID: 39147460.

Salvatore JE, Ohlsson H, Sundquist J, Sundquist K, Kendler KS. Peer Social Genetic Effects and the Etiology of Substance Use Disorders, Major Depression, and Anxiety Disorder in a Swedish National Sample. *Am J Psychiatry*. 2024 Sep 1;181(9):824-833. <https://doi.org/10.1176/appi.ajp.20230358>. Epub 2024 Aug 7. PMID: 39108160; PMCID: PMC11366501.

\*Piazza GG, Allegrini AG, Eley TC, Epskamp S, Fried E, Isvoranu AM, Roiser JP, Pingault JB. Polygenic Scores and Networks of Psychopathology Symptoms. *JAMA Psychiatry*. 2024 Sep 1;81(9):902-910. <https://doi.org/10.1001/jamapsychiatry.2024.1403>. Erratum in: *JAMA Psychiatry*. 2024 Sep 1;81(9):948. <https://doi.org/10.1001/jamapsychiatry.2024.2537>. PMID: 38865107; PMCID: PMC11170456.

\*Qi X, Yang J, Liu L, Hao J, Pan C, Wen Y, Zhang N, Wei W, Kang M, Cheng B, Cheng S, Zhang F. Socioeconomic inequalities, genetic susceptibility, and risks of depression and anxiety: A large-observational study. *J Affect Disord*. 2024 Sep 3;367:174-183. <https://doi.org/10.1016/j.jad.2024.09.009>. Epub ahead of print. PMID: 39236878.

Cui, LB., Zhao, SW., Zhang, YH. et al. [Associated transcriptional, brain and clinical variations in schizophrenia](https://doi.org/10.1038/s44220-024-00306-1). *Nat. Mental Health* (2024). <https://doi.org/10.1038/s44220-024-00306-1>

\*Liu, S., Abdellaoui, A., van Wingen, G.A. et al. [The relation between cortical gene expression and the neural correlates of risky behavior](https://doi.org/10.1038/s44220-024-00311-4). *Nat. Mental Health* (2024). <https://doi.org/10.1038/s44220-024-00311-4>

Caspi, A., Houts, R.M., Moffitt, T.E. et al. [A nationwide analysis of 350 million patient encounters reveals a high volume of mental-health conditions in primary care](https://doi.org/10.1038/s44220-024-00310-5). *Nat. Mental Health* (2024). <https://doi.org/10.1038/s44220-024-00310-5>

He, R., Alonso-Sánchez, M. F., Sepulcre, J., Palaniyappan, L., & Hinzen, W. (2024). [Changes in the structure of spontaneous speech predict the disruption of hierarchical brain organization in first-episode psychosis](https://doi.org/10.1002/hbm.70030). *Human Brain Mapping*, 45(14), e70030. <https://doi.org/10.1002/hbm.70030>

Cao, D., Liu, Y., Mei, J. et al. [Identification of autophagy-related genes as potential biomarkers correlated with immune infiltration in bipolar disorder: a bioinformatics analysis](https://doi.org/10.1186/s12920-024-02003-5). *BMC Med Genomics* 17, 231 (2024). <https://doi.org/10.1186/s12920-024-02003-5>

\* Papers of particular interest

## Other Interesting papers

Zheng, WL., Wu, Z., Hummos, A. et al. [Rapid context inference in a thalamocortical model using recurrent neural networks](https://doi.org/10.1038/s41467-024-52289-3). *Nat Commun* 15, 8275 (2024). <https://doi.org/10.1038/s41467-024-52289-3>

Di Antonio, G., Raglio, S. & Mattia, M. A [geometrical solution underlies general neural principle for serial ordering](https://doi.org/10.1038/s41467-024-52240-6). *Nat Commun* 15, 8238 (2024). <https://doi.org/10.1038/s41467-024-52240-6>

Lumaca, M., Keller, P.E., Baggio, G. et al. [Frontoparietal network topology as a neural marker of musical perceptual abilities](https://doi.org/10.1038/s41467-024-52479-z). *Nat Commun* 15, 8160 (2024). <https://doi.org/10.1038/s41467-024-52479-z>

Hsieh, J.K., Prakash, P.R., Flint, R.D. et al. [Cortical sites critical to language function act as connectors between language subnetworks](https://doi.org/10.1038/s41467-024-51839-z). *Nat Commun* 15, 7897 (2024). <https://doi.org/10.1038/s41467-024-51839-z>

Gim, S., Lee, D.H., Lee, S. et al. [Interindividual differences in pain can be explained by fMRI, sociodemographic, and psychological factors](https://doi.org/10.1038/s41467-024-51910-9). *Nat Commun* 15, 7883 (2024). <https://doi.org/10.1038/s41467-024-51910-9>

Li, M., Dang, X., Chen, Y. et al. [Cognitive processing speed and accuracy are intrinsically different in genetic architecture and brain phenotypes](https://doi.org/10.1038/s41467-024-52222-8). *Nat Commun* 15, 7786 (2024). <https://doi.org/10.1038/s41467-024-52222-8>

Serio, B., Hettwer, M.D., Wiersch, L. et al. [Sex differences in functional cortical organization reflect differences in network topology rather than cortical morphometry](https://doi.org/10.1038/s41467-024-51942-1). *Nat Commun* 15, 7714 (2024). <https://doi.org/10.1038/s41467-024-51942-1>

Tacikowski, P., Kalender, G., Ciliberti, D. et al. [Human hippocampal and entorhinal neurons encode the temporal structure of experience](https://doi.org/10.1038/s41586-024-07973-1). *Nature*(2024). <https://doi.org/10.1038/s41586-024-07973-1>