

- 3 Walsh MJM, Wallace GL, Gallegos SM, Braden BB. Brain-based sex differences in autism spectrum disorder across the lifespan: a systematic review of structural MRI, fMRI, and DTI findings. *Neuroimage Clin* 2021; **31**: 102719.
- 4 Ruigrok ANV, Lai MC. Sex/gender differences in neurology and psychiatry: autism. *Handb Clin Neurol* 2020; **175**: 283–97.
- 5 Lai MC, Lombardo MV, Auyeung B, Chakrabarti B, Baron-Cohen S. Sex/gender differences and autism: setting the scene for future research. *J Am Acad Child Adolesc Psychiatry* 2015; **54**: 11–24.
- 6 Di Martino A, Yan CG, Li Q, Denio E, Castellanos FX, Alaerts K, et al. The autism brain imaging data exchange: towards a large-scale evaluation of the intrinsic brain architecture in autism. *Mol Psychiatry* 2014; **19**: 659–67.
- 7 Supekar K, Ryali S, Mistry P, Menon V. Aberrant dynamics of cognitive control and motor circuits predict distinct restricted and repetitive behaviors in children with autism. *Nat Commun* 2021; **12**: 3537.
- 8 O'Connor D, Potler NV, Kovacs M, Xu T, Ai L, Pellman J, et al. The Healthy Brain Network Serial Scanning Initiative: a resource for evaluating inter-individual differences and their reliabilities across scan conditions and sessions. *Gigascience* 2017; **6**: 1–14.
- 9 Gunning D, Stefik M, Choi J, Miller T, Stumpf S, Yang G-Z. XAI—Explainable artificial intelligence. *Sci Rob* 2019; **4**(37): eaay7120
- 10 LeCun Y, Bengio Y, Hinton G. Deep learning. *Nature* 2015; **521**: 436–44.
- 11 Durstewitz D, Koppe G, Meyer-Lindenberg A. Deep neural networks in psychiatry. *Mol Psychiatry* 2019; **24**: 1583–98.
- 12 Cao K, Wei C, Gaidon A, Arechiga N, Ma T. Learning imbalanced datasets with label-distribution-aware margin loss. *Advances in Neural Information Processing Systems* 32 (ed. H Wallach, et al.). Curran Associates, Inc., 2019.
- 13 Sundararajan M, Taly A, Yan Q. Axiomatic attribution for deep networks. In *International Conference on Machine Learning* 2017; 3319–3328.
- 14 Lord C, Rutter M, Le Couteur A. Autism Diagnostic Interview-Revised: a revised version of a diagnostic interview for caregivers of individuals with possible pervasive developmental disorders. *J Autism Dev Disord* 1994; **24**(5): 659–85.
- 15 Bzdok D, Meyer-Lindenberg A. Machine learning for precision psychiatry: opportunities and challenges. *Biol Psychiatry Cogn Neurosci Neuroimaging* 2018; **3**: 223–30.
- 16 Floris DL, Howells H. Atypical structural and functional motor networks in autism. *Prog Brain Res* 2018; **238**: 207–48.
- 17 Ulljarevic M, Jo B, Frazier TW, Scahill L, Youngstrom EA, Hardan AY. Using the big data approach to clarify the structure of restricted and repetitive behaviors across the most commonly used autism spectrum disorder measures. *Mol Autism* 2021; **12**: 39.
- 18 Lord C, Brugha TS, Charman T, Cusack J, Dumas G, Frazier T, et al. Autism spectrum disorder. *Nat Rev Dis Primers* 2020; **6**: 5.
- 19 Ecker C, Bookheimer SY, Murphy DG. Neuroimaging in autism spectrum disorder: brain structure and function across the lifespan. *Lancet Neurol* 2015; **14**: 1121–34.
- 20 Tager-Flusberg H. Defining language phenotypes in autism. *Clin Neurosci Res* 2006; **6**: 219–24.
- 21 Uddin LQ, Supekar K, Amin H, Rykhlevskaia E, Nguyen DA, Greicius MD, et al. Dissociable connectivity within human angular gyrus and intraparietal sulcus: evidence from functional and structural connectivity. *Cereb Cortex* 2010; **20**: 2636–46.
- 22 Corbetta M, Shulman GL. Spatial neglect and attention networks. *Annu Rev Neurosci* 2011; **34**: 569–99.
- 23 Milner AD, Goodale MA. Two visual systems re-viewed. *Neuropsychologia* 2008; **46**: 774–85.
- 24 Padmanabhan A, Lynch CJ, Schaefer M, Menon V. The default mode network in autism. *Biol Psychiatry Cogn Neurosci Neuroimaging* 2017; **2**: 476–86.
- 25 Uddin LQ, Supekar K, Lynch CJ, Khouzam A, Phillips J, Feinstein C, et al. Salience network-based classification and prediction of symptom severity in children with autism. *JAMA Psychiatry* 2013; **70**: 869–79.
- 26 Hammill C, Lerch JP, Taylor MJ, Ameis SH, Chakravarty MM, Szatmari P, et al. Quantitative and qualitative sex modulations in the brain anatomy of autism. *Biol Psychiatry Cogn Neurosci Neuroimaging* 2021; **6**: 898–909.



Extra

Auschwitz: dreaming the nightmare of day – Dr Miklós Nyiszli (A-8450)

Greg Wilkinson 

'Sick at heart, and physically ill, I started my long journey homeward ... I felt that I should rest, try to regain my strength. But, I kept asking myself, for what? On the one hand, illness racked my body; on the other, the bloody past froze my heart. My eyes had followed countless innocent souls to the gas chambers, witnessed the unbelievable spectacle of the funeral pyres. And I myself, carrying out the orders of a demented doctor, had dissected hundreds of bodies, so that a science based on false theories might benefit from the deaths of those millions of victims. I had cut the flesh of healthy young girls and prepared nourishment for the mad doctor's bacteriological cultures. I had immersed the bodies of dwarfs and cripples in calcium chloride, or had them boiled so that the carefully prepared skeletons might safely reach the Third Reich's museums to justify, for future generations, the destruction of an entire race. And even though all this was now past, I would still have to cope with it in my thoughts and dreams. I could never erase these memories from my mind.'¹

Reference

- 1 Nyiszli M. *Auschwitz. A Doctor's Eyewitness Account*. Penguin, 1960.

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