

References:

- Alharbi, B., Al-Kuraishy, H. M., Al-Gareeb, A. I., Elekhawy, E., Alharbi, H., Alexiou, A., Papadakis, M., & Batiha, G. E. (2024). Role of GABA pathway in motor and non-motor symptoms in Parkinson's disease: a bidirectional circuit. *European Journal of Medical Research*, 29(1). <https://doi.org/10.1186/s40001-024-01779-7>
- Ariza-Salamanca, D. F., Corrales-Hernández, M. G., Pachón-Londoño, M. J., & Hernández-Duarte, I. (2022). Molecular and cellular mechanisms leading to catatonia: an integrative approach from clinical and preclinical evidence. *Frontiers in Molecular Neuroscience*, 15. <https://doi.org/10.3389/fnmol.2022.993671>
- Baenas, N., & Wagner, A. E. (2019). *Drosophila melanogaster* as an alternative model organism in nutrigenomics. *Genes & Nutrition*, 14(1). <https://doi.org/10.1186/s12263-019-0641-y>
- Burrow, J. P., Spurling, B. C., & Marwaha, R. (2023, May 8). *Catatonia*^[A1]. StatPearls - NCBI Bookshelf. <https://www.ncbi.nlm.nih.gov/books/NBK430842/>
- Cotterill, S., & Yamaguchi, M. (2023). Role of *Drosophila* in Human Disease Research 3.0. *International Journal of Molecular Sciences*, 25(1), 292. <https://doi.org/10.3390/ijms25010292>
- Delorey, T., Sahbaie, P., Hashemi, E., Homanics, G., & Clark, J. (2007). *Gabrb3* gene deficient mice exhibit impaired social and exploratory behaviors, deficits in non-selective attention and hypoplasia of cerebellar vermal lobules: A potential model of autism spectrum disorder. *Behavioural Brain Research*, 187(2), 207–220. <https://doi.org/10.1016/j.bbr.2007.09.009>
- Dionne, M. S., Ghori, N., & Schneider, D. S. (2003). *Drosophila melanogaster* Is a Genetically Tractable Model Host for *Mycobacterium marinum*. *Infection and Immunity*, 71(6), 3540–3550. <https://doi.org/10.1128/iai.71.6.3540-3550.2003>

- Du, X., Hao, H., Yang, Y., Huang, S., Wang, C., Gigout, S., Ramli, R., Li, X., Jaworska, E., Edwards, I., Deuchars, J., Yanagawa, Y., Qi, J., Guan, B., Jaffe, D. B., Zhang, H., & Gamper, N. (2017). Local GABAergic signaling within sensory ganglia controls peripheral nociceptive transmission. *Journal of Clinical Investigation*, *127*(5), 1741–1756.
<https://doi.org/10.1172/jci86812>
- Edinoff, A. N., Kaufman, S. E., Hollier, J. W., Virgen, C. G., Karam, C. A., Malone, G. W., Cornett, E. M., Kaye, A. M., & Kaye, A. D. (2021). Catatonia: Clinical overview of the diagnosis, treatment, and clinical challenges. *Neurology International*, *13*(4), 570–586.
<https://doi.org/10.3390/neurolint13040057>
- Hasan, M. M., Alabdallah, N. M., Alharbi, B. M., Waseem, M., Yao, G., Liu, X., El-Gawad, H. G. A., El-Yazied, A. A., Ibrahim, M. F. M., Jahan, M. S., & Fang, X. (2021). GABA: a key player in drought stress resistance in plants. *International Journal of Molecular Sciences*, *22*(18), 10136. <https://doi.org/10.3390/ijms221810136>
- Jeibmann, A., & Paulus, W. (2009). *Drosophila melanogaster* as a Model Organism of Brain Diseases. *International Journal of Molecular Sciences*, *10*(2), 407–440.
<https://doi.org/10.3390/ijms10020407>
- Kline, C. L., Suzuki, T., Simmonite, M., & Taylor, S. F. (2022). Catatonia is associated with higher rates of negative affect amongst patients with schizophrenia and schizoaffective disorder. *Schizophrenia Research*, *263*, 208–213.
<https://doi.org/10.1016/j.schres.2022.09.001>
- Martin, C. A., & Krantz, D. E. (2014). *Drosophila melanogaster* as a genetic model system to study neurotransmitter transporters. *Neurochemistry International*, *73*, 71–88.
<https://doi.org/10.1016/j.neuint.2014.03.015>
- Nicholson, M. W., Sweeney, A., Pekle, E., Alam, S., Ali, A. B., Duchon, M., & Jovanovic, J. N. (2018). Diazepam-induced loss of inhibitory synapses mediated by PLC δ /

- Ca²⁺/calcineurin signalling downstream of GABA_A receptors. *Molecular Psychiatry*, 23(9), 1851–1867. <https://doi.org/10.1038/s41380-018-0100-y>
- Professional, C. C. M. (2024, May 1). Gamma-Aminobutyric Acid (GABA). Cleveland Clinic. <https://my.clevelandclinic.org/health/articles/22857-gamma-aminobutyric-acid-gaba>
- Rasmussen, S. A., Mazurek, M. F., & Rosebush, P. I. (2016). Catatonia: Our current understanding of its diagnosis, treatment and pathophysiology. *World Journal of Psychiatry*, 6(4), 391. <https://doi.org/10.5498/wjp.v6.i4.391>
- Tan, K. R., Rudolph, U., & Lüscher, C. (2011). Hooked on benzodiazepines: GABA_A receptor subtypes and addiction. *Trends in Neurosciences*, 34(4), 188–197. <https://doi.org/10.1016/j.tins.2011.01.004>
- Vang, L. L., Medvedev, A. V., & Adler, J. (2012). Simple ways to measure behavioral responses of drosophila to stimuli and use of these methods to characterize a novel mutant. *PLoS ONE*, 7(5), e37495. <https://doi.org/10.1371/journal.pone.0037495>
- Wiedemann, K. (2001). Anxiety and anxiety disorders. In *Elsevier eBooks* (pp. 560–567). <https://doi.org/10.1016/b0-08-043076-7/03760-8>