

1. Alzaid, H., Simon, J. J., Brungara, G., Vollmuhr, P., Bendzuska, M., & Friedreich, H.-C. (2004). Hypothalamic subregion alterations in anorexia nervosa and obesity: Association with appetite-regulating hormone release. *International Journal of Eating Disorders*, 33(3), 581–592. <https://doi.org/10.1002/eat.21437>
2. Barkhof, P., Rigbolt, K. T. G., Falkenhain, M., Hübshle, T., Schwahn, U., Fernandez-Cachon, M. L., Schmidt, T., Theis, S., Hansen, H. H., Hay-Schmidt, A., Pedersen, P. J., Vrang, N., & Jelsing, J. (2016). Brain transcriptome analysis of rat hypothalamic arcuate nucleus demonstrates reversal of hypothalamic dysfunction following surgically and diet induced weight gain. *Scientific Reports*, 6(1), 16161. <https://doi.org/10.1038/s41598-016-25257-8>
3. Beck, B., Max, J.-P., Fennete, B., & Richy, S. (2004). Adaptation of ghrelin levels to limit body weight gain in the obese Zucker rat. *Biochemical and Biophysical Research Communications*, 318(4), 846–851. <https://doi.org/10.1016/j.bbrc.2004.04.106>
4. Bjorbaek, C., Thomas, G. B., Howard, A. D., Fagnier, S. D., Van der Ploeg, L. H. L., Smith, R. G., & Robinson, L. A. C. (1997). Hypothalamic Growth Hormone Secretagogue-Receptor (GHS-R) Expression Is Regulated by Growth Hormone in the Rat Hypothalamus. *338(1)*, 452–457. [https://doi.org/10.1016/0014-7169\(97\)00046-4](https://doi.org/10.1016/0014-7169(97)00046-4)
5. Cabral, A., Fernandez, G., Tolosa, M. J., Rey Magaña, A., Calga, G., De Francesco, P., M. N. & Perello, M. (2020). Fasting induces remodeling of the orexigenic projections from the arcuate nucleus to the hypothalamus in a mouse model of anorexia nervosa. *Neuroscience Letters*, 729, 135611. <https://doi.org/10.1016/j.neulet.2020.135611>
6. Chen, Y.-N., Zheng, X., Chen, H.-L., Gao, J.-X., Li, X.-X., Xie, J.-F., Yu, S.-P., Xynp, K., Shao, Y.-F., & Hou, Y.-P. (2022). Stereotaxic atlas of the infant rat brain at postnatal days 7–13. *Frontiers in Neuroanatomy*, 16, 988320. <https://doi.org/10.3389/fnana.2022.988320>
7. Cressly Violet arcuate nucleus by the Biological Brain Information 1050-540 v.16. (2024). <https://www.sciencedirect.com/science/article/pii/S1050540V1600001>
8. Delouis, C. (2013). Structure and Physiological Activity of Ghrelin. *Scientific Data*, 1(2–25). <https://doi.org/10.1038/s41598-013-00189-9>
9. Gottschalk, A., Scalfi, S., & Tourny, T. J. K. (2021). Brain water is a function of age and weight in normal rats. *PLOS ONE*, 16(9), e0249384. <https://doi.org/10.1371/journal.pone.0249384>
10. Grassi, D., Mairaudou, M., Garcia-Segura, L. M., & Panizza, G. C. (2022). The hypothalamic paraventricular nucleus as a central hub for the estrogenic modulation of neuroendocrine function and behavior. *Neuroendocrinology*, 100(1), 100974. <https://doi.org/10.1159/000520094>
11. Jiao, Z.-T., & Luo, C. (2020). Molecular Mechanisms and Health Benefits of Ghrelin: A Narrative Review. *Nutrients*, 14(19), Article 19. <https://doi.org/10.3390/n141919191>
12. Kirsz, K., & Zieba, D. A. (2011). Ghrelin-mediated appetite regulation in the central nervous system. *Peptides*, 32(1), 225e–226a. <https://doi.org/10.1016/j.peptides.2011.04.010>
13. Leal, S., Andrade, J. P., Paula-Barros, M. M., & Madeira, M. D. (1998). Arcuate nucleus of the hypothalamus: Effects of age and sex. *The Journal of Comparative Neurology*, 401(1), 65–88. <https://doi.org/10.1002/cn.10045>
14. Matsumoto, A., & Arai, Y. (1983). Sex difference in volume of the ventromedial nucleus of the hypothalamus in the rat. *Endocrinologia Japonica*, 30(3), 277–280. <https://doi.org/10.1507/endocrj.30.3.277>
15. Yehou, M. S., Benachouk, K., Serpell, C. J., & Hwa, W. E. (2022). ArgP/NPY and POMC neurons in the arcuate nucleus and their potential role in treatment of obesity. *European Journal of Pharmacology*, 915, 174651. <https://doi.org/10.1016/j.ejphar.2021.174651>
16. *Weight to Age-in Week Table for Rat*. (n.d.). Retrieved November 18, 2024, from <https://animal.nmu.edu/wt/pw/t412-1130-16363.php?Lang=en>
17. I developed Figures 1–3 through BioRender. Figures 4 shows coronal cutting of the brain and Nissl staining from Ref [2]. Figure 3 uses data from Ref [16] that I altered myself.
18. Figure 5 uses data from Ref [10,13,14] and Figure 6 uses data from Ref [3]. Values were randomly generated in python and visualization code was aided by ChatGPT. Code is available on request.