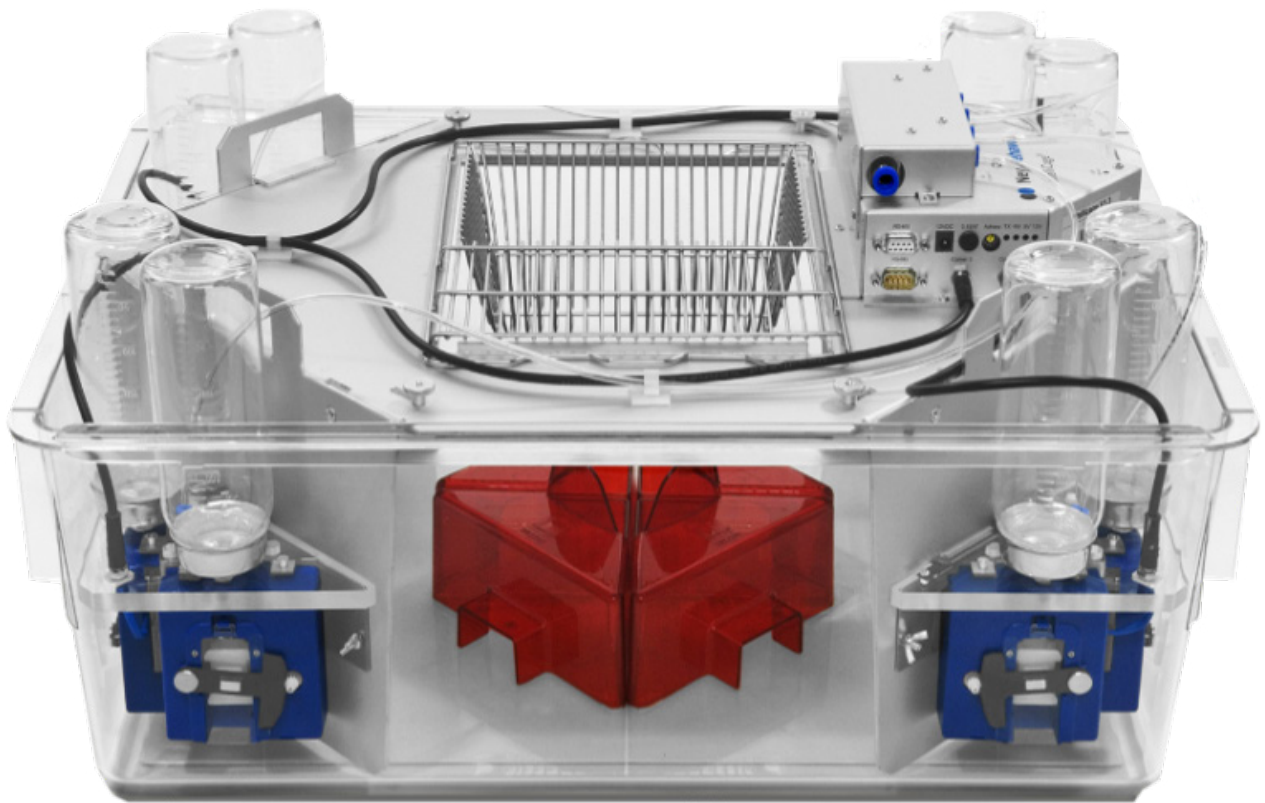




# IntelliCage

## For Rats



**Scientific Publications**

## 2023

**Gao, Y., Han, X., Li, X., Tang, S., Zhang, C., Yang, X., Alhomrani, M., Alamri, A. S., Nabi, G., & Ni, X. (2023).** Anesthesia and surgery induce changes in endogenous brain protective protein (RNF146) and delirium-like behavior in aged rats. *Acta Biochimica Polonica*, 70(4), Article 4. [https://doi.org/10.18388/abp.2020\\_6720](https://doi.org/10.18388/abp.2020_6720)

**Li, L., Wang, Q., Sun, X., Li, Z., Liu, S., Zhang, X., Zhou, J., Zhang, R., Liu, K., Wang, P., Niu, J., Wen, Y., & Zhang, L. (2023).** Activation of RhoA pathway participated in the changes of emotion, cognitive function and hippocampal synaptic plasticity in juvenile chronic stress rats. *International Journal of Biological Macromolecules*, 233, 123652. <https://doi.org/10.1016/j.ijbiomac.2023.123652>

**Li, X., Gao, Y., Han, X., Tang, S., Li, N., Liu, X., & Ni, X. (2023).** Maresin1 ameliorates postoperative cognitive dysfunction in aged rats by potentially regulating the NF- $\kappa$ B pathway to inhibit astrocyte activation. *Experimental Gerontology*, 176, 112168. <https://doi.org/10.1016/j.exger.2023.112168>

**Wu, N., Sun, T., Wu, X., Chen, H., & Zhang, Z. (2023).** Modulation of GABAB receptors in the insula bidirectionally affects associative memory of epileptic rats in both spatial and non-spatial operant tasks. *Frontiers in Behavioral Neuroscience*, 16. <https://www.frontiersin.org/articles/10.3389/fnbeh.2022.1042227>

## 2022

**Esmaeili, A., Antonova, A., Sitnikova, E., & Smirnov, K. (2022).** Whisker trimming during infancy modifies the development of spike-wave discharges and behavioral sequences in IntelliCage impulsivity paradigm in adult WAG/Rij rats. *Behavioural Brain Research*, 418, 113627. <https://doi.org/10.1016/j.bbr.2021.113627>

**Pham, H., Yin, T., & D'Adamio, L. (2022).** Initial assessment of the spatial learning, reversal, and sequencing task capabilities of knock-in rats with humanizing mutations in the A $\beta$ -coding region of App. *PLOS ONE*, 17(5), e0263546. <https://doi.org/10.1371/journal.pone.0263546>

**Shishelova, A. Y., Smirnov, K., & Raevskii, V. V. (2022).** Influence of early social isolation on general activity and spatial learning in adult WAG/Rij rats. *Developmental Psychobiology*, 64(7), e22318. <https://doi.org/10.1002/dev.22319>

**Xiao, L., Jiang, S., Wang, Y., Gao, C., Liu, C., Huo, X., Li, W., Guo, B., Wang, C., Sun, Y., Wang, A., Feng, Y., Wang, F., & Sun, T. (2022).** Continuous high-frequency deep brain stimulation of the anterior insula modulates autism-like behavior in a valproic acid-induced rat model. *Journal of Translational Medicine*, 20(1), 570. <https://doi.org/10.1186/s12967-022-03787-9>

**Yesiltepe, M., Yin, T., Tambini, M. D., Breuillaud, L., Zehntner, S. P., & D'Adamio, L. (2022).** Late-long-term potentiation magnitude, but not A $\beta$  levels and amyloid pathology, is associated with behavioral performance in a rat knock-in model of Alzheimer disease. *Frontiers in Aging Neuroscience*, 14.

## 2021

**Cao, G., Wei, X., Li, W., Yin, H., Lang, W., Wei, P., Zhu, Q., & Jin, G. (2021).** Verification of a multi-function closed maze for the detection of affective disorder and spatial cognitive impairment in post-weaning socially isolated rats. *Neuroscience Letters*, 763, 136192. <https://doi.org/10.1016/j.neulet.2021.136192>

## 2020

**Pelsőczy, P., Kelemen, K., Csölle, C., Nagy, G., Lendvai, B., Román, V., & Lévy, G.** (2020). Disrupted Social Hierarchy in Prenatally Valproate-Exposed Autistic-Like Rats. *Frontiers in Behavioral Neuroscience*, 13. <https://www.frontiersin.org/articles/10.3389/fnbeh.2019.00295>

**Zheng, Y., Wu, M., Gao, T., Meng, L., Ding, X., Meng, Y., Jiao, Y., Luo, P., He, Z., Sun, T., Zhang, G., Shi, X., & Rong, W.** (2020). GPER-Deficient Rats Exhibit Lower Serum Corticosterone Level and Increased Anxiety-Like Behavior. *Neural Plasticity*, 2020, e8866187. <https://doi.org/10.1155/2020/8866187>

## 2018

**Oliveros, E., Vázquez, E., Barranco, A., Ramírez, M., Gruart, A., Delgado-García, J. M., Buck, R., Rueda, R., & Martín, M. J.** (2018). Sialic Acid and Sialylated Oligosaccharide Supplementation during Lactation Improves Learning and Memory in Rats. *Nutrients*, 10(10), Article 10. <https://doi.org/10.3390/nu10101519>

## 2017

**Wu, N., Wang, F., Jin, Z., Zhang, Z., Wang, L.-K., Zhang, C., & Sun, T.** (2017). Effects of GABAB receptors in the insula on recognition memory observed with intelligence. *Behavioral and Brain Functions*, 13(1), 7. <https://doi.org/10.1186/s12993-017-0125-4>  
<https://www.frontiersin.org/articles/10.3389/fnagi.2022.1040576>

## 2014

**Urbach, Y. K., Raber, K. A., Canneva, F., Plank, A.-C., Andreasson, T., Ponten, H., Kullingsjö, J., Nguyen, H. P., Riess, O., & von Hörsten, S.** (2014). Automated phenotyping and advanced data mining exemplified in rats transgenic for Huntington's disease. *Journal of Neuroscience Methods*, 234, 38–53. <https://doi.org/10.1016/j.jneumeth.2014.06.017>