

**Bussey-Saksida Chambers**

- Jager, A., Dam, S. A., Van Der Mierden, S., Oomen, C. A., Arias-Vasquez, A., Buitelaar, J. K., Kozicz, T., & Glennon, J. C. (2020). Modulation of cognitive flexibility by reward and punishment in BALB/cJ and BALB/cByJ mice. *Behavioural Brain Research*, 378, 112294. <https://doi.org/10.1016/j.bbr.2019.112294>
- Luo, J., Tan, J. M., & Nithianantharajah, J. (2020). A molecular insight into the dissociable regulation of associative learning and motivation by the synaptic protein neuroligin-1. *BMC Biology*, 18(1), 118. <https://doi.org/10.1186/s12915-020-00848-7>
- Milinski, L., Fisher, S., Cui, N., McKillop, L., Blanco Duque, C., Ang, G., Yamagata, T., Bannerman, D., & Vyazovskiy, V. (2020). Waking experience modulates sleep need in mice. *BioRxiv*, 2020.07.25.219642. <https://doi.org/10.1101/2020.07.25.219642>
- Fritz, R. G., Zimmermann, E., Meier, M., Mestre-Francés, N., Radespiel, U., & Schmidtke, D. (2020). Neurobiological substrates of animal personality and cognition in a nonhuman primate ( *Microcebus murinus* ). *Brain and Behavior*, 10(9). <https://doi.org/10.1002/brb3.1752>
- Sullivan, J. A., Dumont, J. R., Memar, S., Skirzewski, M., Wan, J., Mofrad, M. H., Ansari, H. Z., Li, Y., Muller, L., Prado, V. F., Prado, M. A. M., Saksida, L. M., & Bussey, T. J. (2020). New Frontiers in Translational Research: Touchscreens, Open Science, and The Mouse Translational Research Accelerator Platform ( <scp>MouseTRAP</scp> ). *Genes, Brain and Behavior*. <https://doi.org/10.1111/gbb.12705>
- Lee, J., van den Buuse, M., Nithianantharajah, J., & Jones, N. C. (2020). Acute NMDA receptor antagonism impairs working memory performance but not attention in rats-Implications for the NMDAR hypofunction theory of schizophrenia. *Behavioral Neuroscience*, 134(4), 323–331. <https://doi.org/10.1037/bne000402>
- Yang, J. H., Presby, R. E., Jarvie, A. A., Rotolo, R. A., Fitch, R. H., Correa, M., & Salamone, J. D. (2020). Pharmacological studies of effort-related decision making using mouse touchscreen procedures: effects of dopamine antagonism do not resemble reinforcer devaluation by removal of food restriction. *Psychopharmacology*, 237(1), 33–43. <https://doi.org/10.1007/s00213-019-05343-8>
- Yang, J. H., Presby, R. E., Rotolo, R. A., Quiles, T., Okifo, K., Zorda, E., Fitch, R. H., Correa, M., & Salamone, J. D. (2020). The dopamine depleting agent tetrabenazine alters effort-related decision making as assessed by mouse touchscreen procedures. *Psychopharmacology*, 237(9), 2845–2854. <https://doi.org/10.1007/s00213-020-05578-w>
- DeBrosse, A. C., Wheeler, A. M., Barrow, J. C., & Carr, G. V. (2020). Inhibition of Catechol-O-methyltransferase Does Not Alter Effort-Related Choice Behavior in a Fixed Ratio/Concurrent Chow Task in Male Mice. *Frontiers in Behavioral Neuroscience*, 14. <https://doi.org/10.3389/fnbeh.2020.00073>
- DeBrosse, A., Wheeler, A. M., Barrow, J. C., & Carr, G. V. (2020). Effects of catechol-O-methyltransferase inhibition on effort-related choice behavior in male mice. *BioRxiv*, 2020.01.28.924142. <https://doi.org/10.1101/2020.01.28.924142>
- Smith, B. L., Laaker, C. J., Lloyd, K. R., Hiltz, A. R., & Reyes, T. M. (2020). Adolescent microglia play a role in executive function in male mice exposed to perinatal high fat diet. *Brain, Behavior, and Immunity*, 84, 80–89. <https://doi.org/10.1016/j.bbi.2019.11.010>
- Dumont, J. R., Salewski, R., & Beraldo, F. (2020). Critical mass: The rise of a touchscreen technology community for rodent cognitive testing. *Genes, Brain and Behavior*. <https://doi.org/10.1111/gbb.12650>

- Crijns, E., & de Beeck, H. O. (2020). The visual acuity of rats in touchscreen setups. *Vision (Switzerland)*, 4(1). <https://doi.org/10.3390/vision4010004>
- Mosser, C.-A., Haqquee, Z., Nieto-Posadas, A., Murai, K., Stefano, S., Williams, S., & Brandon, M. P. (2020). The McGill-Mouse-Marmoset Platform: A Standardized Approach for High-throughput Imaging of Neuronal Dynamics During Behavior. *BioRxiv*. <https://doi.org/10.1101/2020.02.06.937573>
- Yang, J.-H., Presby, R. E., & Rotolo, R. A. (2020). Pharmacological studies of effort-related decision making using mouse touchscreen procedures: effects of dopamine antagonism do not resemble reinforcer. *Springer*, 237(1), 33–43. <https://doi.org/10.1007/s00213-019-05343-8>
- Luo, J., Tan, J. M., & Nithianantharajah, J. (2020). Associative Learning and Motivation Differentially Requires Neuroligin-1 at Excitatory Synapses. *BioRxiv*, 2020.01.01.890798. <https://doi.org/10.1101/2020.01.01.890798>
- Hailwood, J. M., Heath, C. J., Phillips, B. U., Robbins, T. W., Saksida, L. M., & Bussey, T. J. (2019). Blockade of muscarinic acetylcholine receptors facilitates motivated behaviour and rescues a model of antipsychotic-induced amotivation. *Neuropsychopharmacology*, 44(6), 1068–1075. <https://doi.org/10.1038/s41386-018-0281-8>
- van den Boom, B. J. G., Mooij, A. H., Misevičiūtė, I., Denys, D., & Willuhn, I. (2019). Behavioral flexibility in a mouse model for obsessive-compulsive disorder: Impaired Pavlovian reversal learning in SAPAP3 mutants. *Genes, Brain and Behavior*, 18(4). <https://doi.org/10.1111/gbb.12557>
- Meda, S., Freund, N., Norman, K. J., Thompson, B. S., Sonntag, K.-C., & Andersen, S. L. (2019). The use of laser capture microdissection to identify specific pathways and mechanisms involved in impulsive choice in rats. *Heliyon*, 5(8), e02254. <https://doi.org/10.1016/j.heliyon.2019.e02254>
- Lindström, S. H., Sundberg, S. C., Larsson, M., Andersson, F. K., Broman, J., & Granseth, B. (2019). VGLUT1 Deficiency Impairs Visual Attention and Reduces the Dynamic Range of Short-Term Plasticity at Corticothalamic Synapses. *Cerebral Cortex*. <https://doi.org/10.1093/cercor/bhz204>
- Arulsamy, A., Corrigan, F., & Collins-Praino, L. E. (2019). Age, but not severity of injury, mediates decline in executive function: Validation of the rodent touchscreen paradigm for preclinical models of traumatic brain injury. *Behavioural Brain Research*, 368. <https://doi.org/10.1016/j.bbr.2019.111912>
- Hambrecht-Wiedbusch, V. S., Latendresse, K. A., Avidan, M. S., Nelson, A. G., Phyle, M., Ajluni, R. E., & Mashour, G. A. (2019). General anesthesia does not have persistent effects on attention in rodents. *Frontiers in Behavioral Neuroscience*, 13. <https://doi.org/10.3389/fnbeh.2019.00076>
- Jager, A., Kanters, D., Geers, F., Buitelaar, J. K., Kozicz, T., & Glennon, J. C. (2019). Methylphenidate Dose-Dependently Affects Aggression and Improves Fear Extinction and Anxiety in BALB/cJ Mice. *Frontiers in Psychiatry*, 10, 768. <https://doi.org/10.3389/fpsyt.2019.00768>
- Tamming, R., Dumeaux, V., Langlois, L., Ellegood, J., Qiu, L., Jiang, Y., Lerch, J. P., & Bérubé, N. G. (2019). Atrx Deletion in Neurons Leads to Sexually-Dimorphic Dysregulation of miR-137 and Spatial Learning and Memory Deficits. *SSRN Electronic Journal*. <https://doi.org/10.2139/ssrn.3387657>
- Freund, N., Jordan, C. J., Lukkes, J. L., Norman, K. J., & Andersen, S. L. (2019). Juvenile exposure to methylphenidate and guanfacine in rats: effects on early delay discounting and later cocaine-taking behavior. *Psychopharmacology*, 236(2), 685–698. <https://doi.org/10.1007/s00213-018-5096-0>

Krakenberg, V., Woigk, I., Garcia Rodriguez, L., Kästner, N., Kaiser, S., Sachser, N., & Richter, S. H. (2019). Technology or ecology? New tools to assess cognitive judgement bias in mice. *Behavioural Brain Research*, 362, 279–287.

<https://doi.org/10.1016/j.bbr.2019.01.021>

Jager, A., Dam, S. A., Van Der Mierden, S., Oomen, C. A., Arias-Vasquez, A., Buitelaar, J. K., Kozicz, T., & Glennon, J. C. (2019). Modulation of cognitive flexibility by reward and punishment in BALB/cJ and BALB/cByJ mice: Sensitivity to reward and punishment in BALB/c. *Behavioural Brain Research*. <https://doi.org/10.1016/j.bbr.2019.112294>

Braeckman, K., Descamps, B., Vanhove, C., & Caeyenberghs, K. (2019). Exploratory relationships between cognitive improvements and training induced plasticity in hippocampus and cingulum in a rat model of mild traumatic brain injury: a diffusion MRI study. *Brain Imaging and Behavior*. <https://doi.org/10.1007/s11682-019-00179-4>

Rendall, A. R., Perrino, P. A., LoTurco, J. J., & Fitch, R. H. (2019). Evaluation of visual motion perception ability in mice with knockout of the dyslexia candidate susceptibility gene *Dcdc2*. *Genes, Brain and Behavior*, 18(5).

<https://doi.org/10.1111/gbb.12450>

Shepherd, A., May, C., Churilov, L., Adlard, P. A., Hannan, A. J., & Burrows, E. L. (2019). Evaluation of attention in APP/PS1 mice shows impulsive and compulsive behaviours. *Genes, Brain and Behavior*.

<https://doi.org/10.1111/gbb.12594>

Dam, S. A., Jager, A., Oomen, C. A., Buitelaar, J. K., Arias-Vasquez, A., & Glennon, J. C. (2019). Inhibitory control in BALB/c mice sub-strains during extinction learning. *European Neuropsychopharmacology*, 29(4), 509–518.

<https://doi.org/10.1016/j.euroneuro.2019.02.007>

Radke, A. K., Zweifel, L. S., & Holmes, A. (2019). NMDA receptor deletion on dopamine neurons disrupts visual discrimination and reversal learning. *Neuroscience Letters*, 699, 109–114. <https://doi.org/10.1016/j.neulet.2019.02.001>

Brutman, J. N., Sirohi, S., & Davis, J. F. (2019). Examining the Impact of Estrogen on Binge Feeding, Food-Motivated Behavior, and Body Weight in Female Rats. *Obesity*, 27(10), 1617–1626. <https://doi.org/10.1002/oby.22582>

Mantanona, C. P., Alsiö, J., Elson, J. L., Fisher, B. M., Dalley, J. W., Bussey, T., & Pienaar, I. S. (2019). Altered motor, anxiety-related and attentional task performance at baseline associate with multiple gene copies of the vesicular acetylcholine transporter and related protein overexpression in ChAT::Cre+ rats. *Brain Structure and Function*.

<https://doi.org/10.1007/s00429-019-01957-y>

Piantadosi, P. T., Lieberman, A. G., Pickens, C. L., Bergstrom, H. C., & Holmes, A. (2019). A novel multichoice touchscreen paradigm for assessing cognitive flexibility in mice. *Learning and Memory*, 26(1), 24–30.

<https://doi.org/10.1101/lm.048264.118>

Janickova, H., Kljakic, O., Rosborough, K., Raulic, S., Matovic, S., Gros, R., Saksida, L. M., Bussey, T. J., Inoue, W., Prado, V. F., & Prado, M. A. M. (2019). Selective decrease of cholinergic signaling from pedunclopontine and laterodorsal tegmental nuclei has little impact on cognition but markedly increases susceptibility to stress. *FASEB Journal : Official Publication of the Federation of American Societies for Experimental Biology*, 33(6), 7018–7036.

<https://doi.org/10.1096/fj.201802108R>

Heath, C. J., O'Callaghan, C., Mason, S. L., Phillips, B. U., Saksida, L. M., Robbins, T. W., Barker, R. A., Bussey, T. J., & Sahakian, B. J. (2019). A Touchscreen Motivation Assessment Evaluated in Huntington's Disease Patients and R6/1 Model Mice. *Frontiers in Neurology*, 10. <https://doi.org/10.3389/fneur.2019.00858>

Lim, J., Kim, E., Noh, H. J., Kang, S., Phillips, B. U., Kim, D. G., Bussey, T. J., Saksida, L., Heath, C. J., & Kim, C. H. (2019). Assessment of mGluR5 KO mice under conditions of low stress using a rodent touchscreen apparatus reveals impaired behavioural flexibility driven by perseverative responses. *Molecular Brain*, 12(1). <https://doi.org/10.1186/s13041-019-0441-8>

Radke, A. K., Kocharian, A., Covey, D. P., Lovinger, D. M., Cheer, J. F., Mateo, Y., & Holmes, A. (2018). Contributions of nucleus accumbens dopamine to cognitive flexibility. *European Journal of Neuroscience*.  
<https://doi.org/10.1111/ejn.14152>

Fitzpatrick, C. M., Maric, V. S., Bate, S. T., & Andreasen, J. T. (2018). Influence of intertrial interval on basal and drug-induced impulsive action in the 5-choice serial reaction time task. *Neuroscience Letters*.  
<https://doi.org/10.1016/j.neulet.2017.10.058>

Braeckman, K., Descamps, B., Caeyenberghs, K., & Vanhove, C. (2018). Longitudinal DTI changes following cognitive training therapy in a mild traumatic brain injury rat model. *Frontiers in Neuroscience*, 12.  
<https://doi.org/10.3389/conf.fnins.2018.95.00074>