

# Partial Publication List for TopScan Software/System

May 2026  
Clever Sys Inc

## 1. TopScan and TopScanLite

### 1.1 Journal Papers (From 2018 To Current)

Kumar, G., Franco, D., Basu, M. et al. Nucleus accumbens neuron subtype transcriptome signatures in socially stressed females. *Neuropsychopharmacol.* (2026). <https://doi.org/10.1038/s41386-026-02414-1>

Xin Li, Banglian Hu, Chujun Wu, Ziwei Wang, Hanzheng Fan, Xiaoyan Guan, Sulan Xie, Dadian Chen, Xiaohua Huang, Hao Sun, Yanfang Li, Xian Zhang, Guojun Bu, Zhanxiang Wang, Yun-Wu Zhang, Li Zhong, Zaiqiang Zhang, Honghua Zheng, A strategy of microglia replacement alleviates microgliopathy in a CSF1R I794T hotspot mutation mouse model of CSF1R-related disorder. *Cell Reports Medicine*, Volume 7, Issue 3, 2026, 102641, ISSN 2666-3791, <https://doi.org/10.1016/j.xcrm.2026.102641>.

Gubert C, Kong G, Shadani S, Connell S, Masson BA, van de Garde N, Narayana VK, Renoir T, Hannan AJ. Prebiotics Rescue Gut Microbiome Dysregulation and Enhance Cognitive and Gastrointestinal Function in a Mouse Model of Schizophrenia. *Schizophr Bull.* 2026 Mar 7;52(2):sba056. doi: 10.1093/schbul/sba056. PMID: 40432377; PMCID: PMC12996922.

**nature** Aron, L., Ngian, Z.K., Qiu, C. et al. Lithium deficiency and the onset of Alzheimer's disease. *Nature* 645, 712–721 (2025). <https://doi.org/10.1038/s41586-025-09335-x>

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### 1.3 Oral Presentations (Prior to 2018)

R. HAVEKES, T. HUANG, T. NIE, A. PARK, L. GUERCIO, J. HAWK, J. WASSERMAN, B. ACAR, Q. GRIMES, T. ABEL, Loss of the alpha isoform of the A-kinase anchoring protein gravin impairs  $\beta$ 2 adrenergic receptor mediated hippocampal synaptic plasticity and memory, SFN2010, San Diego

J.S. Rhodes, None; P.J. Clark, None; R.A. Kohman, None; D.S. Miller, None; T.K. Bhattacharya, None; W.J. Brzezinska, None; E. DeYoung, Genetic influences on exercise-induced adult hippocampal neurogenesis, SFN2010, San Diego

M. L. MUSTROPH, R. A. KOHMAN, D. STOBAUGH, W. J. BRZEZINSKA, E. DEYOUNG, J. S. RHODES, Wheel running exercise strengthens conditioned place preference for cocaine and increases levels of adult hippocampal neurogenesis in male C57BL/6J mi, SFN2010, San Diego.

P. J. CLARK, D. S. MILLER, T. K. BHATTACHARYA, D. KRONE, J. S. RHODES. An analysis of c-Fos, Arc, and Zif268 induction in new and pre-existing dentate granule neurons from acute bouts of voluntary running in C57BL/6J mice, SFN2010, San Diego.

D. S. MILLER, P. J. CLARK, T. K. BHATTACHARYA, R. A. KOHMAN, W. J. BRZEZINSKA, J. S. RHODES, (2010) Functional significance of adult hippocampal neurogenesis in pro-cognitive effects of exercise, SFN2010, San Diego.

R. A. KOHMAN, P. J. CLARK, W. BRZEZINSKA, E. DEYOUNG, J. S. RHODES; (2010), Exercised-induced increases in neurogenesis may contribute to the consolidation of recent and remote memories, SFN2010, San Diego.

J. A. ZOMBECK, J. S. RHODES, Genetic influences on differential acute locomotor stimulation from cocaine in adolescent versus adult mice, SFN2010, San Diego.

A. K. HALL, J. L. RHODES; Cortical neuron rescue from glutamate toxicity by Activin A requires activin receptor I kinase activity, SFN2010, San Diego.

- J. S. GREENE, R. J. SCHLOESSER, H. K. MANJI, K. MARTINOWICH; MAP/LMP, Natl. Inst. of Mental Hlth., Bethesda, MD, (2009) Effects of lithium, valproic acid and lamotrigine on behavioral irritability, SFN2009, Chicago.
- D. S. MILLER, P. J. CLARK, E. HAFERKAMP, E. PUCHALSKI, D. KRONE, J. S. RHODES, (2009) Functional significance of adult hippocampal neurogenesis in precognitive effects of exercise using a transgenic mouse model to directly manipulate neurogenesis SFN2009.
- E. C. DABE, W. J. BRZEZINSKA, P. J. CLARK, J. S. RHODES; (2009) Wheel running exercise delays extinction of conditioned place preference for cocaine in male C57BL/6J mice in association with impaired exercise-induced adult hippocampal neurogenesis.
- J. S. RHODES, J. A. ZOMBECK; (2009) Heritability of home cage physical activity in mice, SFN 2009, Chicago.
- P. J. CLARK, E. HAFERKAMP, E. PUCHALSKI, D. MILLER, J. S. RHODES; (2009) A comparison of adult hippocampal neurogenesis and Fos-induction from wheel running during the initial 6 days of wheel exposure versus after 20 days during peak running SFN2009.
- A. LOCKRIDGE, L.-L. YUAN, C. ZHAO; Dept Neurosci, Univ. Minnesota, Minneapolis, MN (2009) Plasticity changes and spatial learning deficits in Kv4.2 knockout mice, SFN2009, Chicago.
- J. A. ZOMBECK, J. S. RHODES; (2009) Patterns of neural activity associated with differential acute locomotor stimulation to cocaine and methamphetamine in adolescent versus adult male C57BL/6J mice SFN2009.
- Chambers, J. B., Heiman, J.U., Johnson, J.D., Clegg, D.J., & Benoit, S.C 2006. (2006, October). A core facility for behavioral assays in rats and mice. Presented at SFN, Atlanta, GA.
- Dewey, S., Schiffer, W., Patel, V., Vaska, P., Woody, C., Schyler, D., Lee, D., Alexoff, D., & Fowler, J. (2006, May). Small animal PET imaging of <sup>11</sup>C-raclopride following uptake in awake and freely moving animals. Presented at the J of Nuclear Medicine Meeting.
- Grundmann, O., Mertens-Talcott S., Nakajima J., Seo S., & Butterweck V. (2005). Antioxidant and anxiolytic effects of Apocynum venetum L. Presented at the International Congress and 53rd Annual Meeting of the Society for Medicinal Plant Research, Florence, Italy.
- Grundmann, O. (2005, July). In vivo experiments in the evaluation of CNS-active natural medicines - an overview. Presented at the University of Kobe, Kobe, Japan.
- Schiffer, W., Patel, V., Lee, D., Frumberg, D., Shashika, F., Pai, J., Alexoff, D., & Dewey, S. (2006, May). Patterns of brain activation associated with conditioned place preference in rats Presented at the J of Nucl. Medicine Meeting.

## 1.4 Poster Presentations (Prior to 2018)

- Jones, K. S., Chen, J., & Patel, R. (2008, November). Ziprasidone prevents MK-801-induced hyperlocomotion in the zebrafish, *Danio rerio*. Presented at SFN, Washington, DC.
- Kerr, A. L., Hensel, M.L.1, Nye, S.H.2, Swain, R.A.1. (2008, May). Perseverative behavior in the Dahl Salt-Sensitive and chromosomal substitution strains. Presented at SFN, Washington, DC.
- Suarez, M., Walter, G.C., Platt, D.W., Thompson, A.C., & DiPirro, J.M. (2007, June). The acute behavioral and physiological response in rats to a predator-scented stimulus: home cage vs. open field exposure to the stimulus. Presented at IBNS, Rio, Brazil.
- Parfitt, D. B. (2007, June). Developing an early life stress model that reliably alters adult neuroendocrine and behavioral stress- reactivity in C57BL/6 mice: neonatal handling vs maternal separation. Presented at IBNS, Rio de Janeiro, Brazil.
- Pratt, W. E., Spencer, R.C., & Kelley, A.E. (2006, October). Nucleus accumbens muscarinic receptor antagonism causes an associable negative motivational state. Presented at SFN, Atlanta, GA.
- Grundmann, O., Nakajima, J., Seo, S., & Butterweck, V. (2005). Antioxidant and anxiolytic activities of *Apocynum venetum* L. Presented at AAPS, Nashville, TN.
- Grundmann, O., Mertens-Talcott S., Nakajima J., Seo S., & Butterweck V. (2005, August). Antioxidant and anxiolytic activities of a leaf extract of *Apocynum venetum* L. Presented at the 22nd Annual conference of the Medical and Pharmaceutical Society for traditional Japanese and Chinese medicine. Tokyo, Japan.
- Heiman, J. U., Chambers, J.B., Clegg, D.J., Pfluger, P., Tschop, M., & Benoit, S.C. (2005, July). Automated video based behavioral assays in metabolic research. Presented at SSIB, Pittsburgh, PA.
- Sun, M., Thomas, M.J., Petryk, A., Selleck, S.B., & O'Connor, M.B. (2005, November). Chordin, an Extracellular Antagonist of BMP Signaling, Modulated Hippocampal Synaptic Plasticity. Presented at SFN, Washington, DC.
- Sun, M., Bofenkamp, L., Deng, C., & O'Connor, M.B. (2006, October). Impairment of new environment cognition in mice with hippocampal deletion of *Samd4*. Paper presented at the SFN, Atlanta, GA.
- Stein, J. M., Fang, Y., Chennathukuzhi, V., Hecht, N.B., & Abel, T. (2003, November). Altered behavior in mice lacking testis brain RNA-binding protein. Presented at SFN, New Orleans, LA.

## 2. Specific Module ----- ObjectScan

### 2.1 Journal Papers

- Krishnan B, Marcatti M, Fracassi A, Zhang WR, Guptarak J, Johnson K, Grant A, Kaye R, Tagliabue G, Micci MA. Hippocampal Neural Stem Cell Exosomes Promote Brain Resilience against the Impact of Tau Oligomers. *J Neurosci*. 2025 Apr 16;45(16):e1664242025. doi: 10.1523/JNEUROSCI.1664-24.2025. PMID: 40050115; PMCID: PMC12005371.
- Rossato, J., Gonzalez, M., Apolinário, G., Radiske, A., Brisa, E., Carneiro, L. and Cammarota, M. (2025), Hippocampal CaMKII Regulates the Consolidation of Recognition Memory. *Eur J Neurosci*, 61: e70049. <https://doi.org/10.1111/ejn.70049>
- Rossato JI, Gonzalez MC, Souza JPG, Radiske A, Apolinario G, Baracho AL and Cammarota M (2025) CaMKII modulates memory destabilization by regulating the interaction of theta and gamma oscillations. *Front. Cell. Neurosci*. 19:1620588. doi: 10.3389/fncel.2025.1620588
- Sreenivasmurthy SG, Budhwani SM, Mohanty S, Villarreal ME, Shah P, John SK, Natarajan C, Ramaswamy K, Sheth K, Wong E, Phan PC, Lopez JL, Gill SK, Currie J, Garza K, Limon A, Green TA, Krishnan B. PLD1-Dependent Regulation of Synaptic Integrity: Implications for Cognitive Resilience and Alzheimer's Disease Pathogenesis. *bioRxiv [Preprint]*. 2025 Dec 11:2025.12.08.692971. doi: 10.64898/2025.12.08.692971. PMID: 41777445; PMCID: PMC12951819.
- Weng Y, Zhang Y, Li Y, Lin X, Guo Z, Hu H, Shao W, Yu G, Zheng F, Cai P, Li H, Wu S. Single-cell RNA-sequencing of cellular heterogeneity and pathogenic mechanisms in paraquat-induced Parkinson's disease with depression. *Ecotoxicol Environ Saf*. 2024 Mar 15;273:116169. doi: 10.1016/j.ecoenv.2024.116169. Epub 2024 Mar 5. PMID: 38447518.
- Rossato JI, Radiske A, Gonzalez MC, Apolinário G, de Araújo RLS, Bevilaqua LRM, Cammarota M. NMDARs control object recognition memory destabilization and reconsolidation. *Brain Res Bull*. 2023 Jun 1;197:42-48. doi: 10.1016/j.brainresbull.2023.03.013. Epub 2023 Apr 1. PMID: 37011815.
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## 2.2 Poster Presentations

- S. T. SAVAGE, L. OLSON, A. MATTSSON, (2010) Novel object recognition and social interaction in rats lacking cortical cholinergic innervation; comparing manual and digital video tracking systems, SFN2010, San Diego
- Burns, A. J., Micheli, T.L., Groeber, C.M., Morgan, K.V., Gideons, E.S., Flinn, J.M., Kruck, T.P., & Percy, M.E. (2007), Differences in behavior and amyloid plaque deposition in Tg2576 transgenic mice expressing the human amyloid precursor protein and Wt2576 wildtype mice after the chelation of trivalent iron by Feralex injection. Presented at SFN, San Diego, CA.
- Groeber, C. M., Railey, A.M., Jones, B.F., Chrosniak, L.D., & Flinn, J.M. (2006, October), Effects of dietary enhancement of iron on APP2576 mice assessed through novel object recognition. Presented at SFN, Atlanta, GA.
- Groeber, C. M., Jones, B.F., Chrosniak, L.D., & Flinn, J.M. (2007, November). Dietary enhancement of iron, zinc, and copper and the effect on APP2576 mice as assessed through novel object recognition and histological analysis. Presented at SFN, San Diego, CA.

- Groeber, C. M., Jones, B.F., Chrosniak, L.D., & Flinn, J.M. (2008, November). The effect of dietary enhancement of iron, zinc, and copper on APP2576 mice as assessed through novel object recognition and corresponding plaque deposition Presented at SFN, Washington, DC.
- Hernandez, C. M., Hogan, D., Song, W., Dineley, K.T. (2008, November). Age-dependent changes in Tg2576 mouse brain pathology when a7 nicotinic acetylcholine receptors are absent. Presented at SFN, Washington, DC.
- Kornecook, T. J., McKinney, A., Ferguson, M., & Dodart, J.C. (2008, November). Gender- and isoform-specific Effects of apolipoprotein E on cognitive performance in mice overexpressing human APP. Presented at SFN, Washington, DC.
- Kuc, K. A., Devanarayan, V., & Dodart, J.C. (2003, November). Automated Spontaneous Object Recognition Task in mice: validation studies. Presented at SFN, New Orleans, LA.
- Lumley, L. A., Robison, C.L., Furtado, M.D., Tong, L., Shih, T.M., Dill, T., Somsamayvong, B., Saviolakis, G., & Yourick, D. (2007, November). Pretreatment with 17 beta-estradiol reduces seizures and brain pathology in rats exposed to the chemical warfare nerve agents VX and soman. Presented at SFN, San Diego, CA.
- Lumley, L. A., Moffett, M.C., Ward, T.M., Furtado, M.D., Estes, S.P., Robison, C.L., Kamberger, K.L., Schwartz, J.E., Schultz, M.K., Stone, M.F., Sedigh-Sarvestani, M., Johnson, S.M., Yourick, D.L., Shih, T.M., & Saviolakis, G.A. (2008, November). Anticonvulsant and neuroprotective effects of the neurosteroid pregnanolone against soman exposure in rats Presented at SFN, Washington, DC.
- Marcus, J. N., Caniga, M., Dillon, G., Menon, M.K., & Dodart, J.C. (2008, November). Age-dependant cognitive and histopathological deficits in rTg4510 mice. Presented at SFN, Washington, DC.
- Micheli, T. L., Mozgova, O.I., Freese, A.L., Coleman, K., Nguyen, T., Railey, A.M., & Flinn, J.M. (2008, November) Behavioral and histological assessment following pre- and post-natal zinc. Presented at SFN, Washington, DC.
- Reese, L. C., Zhang, W.R., Kaye, R., Neugebauer, V., Hogan, D., Dineley, K., & Tagliatela, G. (2008, November). Oligomeric amyloid beta induces calcineurin in models of Alzheimer's Disease. Presented at SFN, Washington, DC.
- Rodriguez-Rivera, J., & Dineley, K.T. (2007, November). Does CNS peroxisome proliferator activator receptor gamma mediate rosiglitazone reversal of cognitive deficits in Tg2576? Presented at SFN, San Diego, CA.
- Rodriguez-Rivera, J., Song, W., Haidacher, S.J., Denner, L., & Dineley, K.T. (2008, November). Rosiglitazone reversal of cognitive deficits in Tg2576 mice is concomitant with insulin dysregulation. Presented at SFN, Washington, DC.
- Roof, R. L., Cooke, L.W., McCarthy, S.A., & Siuciak, J.A.. (2006, October). Demonstration and species comparison of pharmacologically induced cognitive enhancement, as measured by the object recognition test, in rats and mice. Presented at SFN, Atlanta, GA.

Tagliatela, G., Reese, L.C., & Zhang, W., Neugebauer, V., Ineley, K., Kaye, R. (2008, November). A common mechanism of action of amyloid oligomers. Presented at SFN, Washington, DC.

Wagner, T., Chandrasekaran, R.Y., Johnson, D.E., Freeman, J., Hajos, M., Hoffmann, W.E., Horner, W.W., James, L.C., Rollema, J., Strick, C.A., & Schmidt, A.W. (2007, November). PF-00389027: a potent and selective histamine H3 receptor antagonist/inverse agonist. Presented at SFN, San Diego, CA.

### 3. Specific Module ----- LocoScan

#### 3.1 Journal Papers

- Chao-Chieh Hsieh, Chiung-Yun Chang, Tania Xu Yar Lee, Jinfu Wu, Suchada Saovieng, Yu-Wen Hsieh, Maijian Zhu, Chih-Yang Huang, Chia-Hua Kuo. Longevity, tumor, and physical vitality in rats consuming ginsenoside Rg1. *Journal of Ginseng Research*. Volume 47, Issue 2, 2023, Pages 210-217, ISSN 1226-8453, <https://doi.org/10.1016/j.jgr.2021.04.006>.
- Saovieng S, Wu J, Jean WH, Huang CY, Higgins MF, Alkhatib A, Korivi M, Chen CN, Kuo CH. Lower tumorigenesis without life extension in rats receiving lifelong deep ocean minerals. *Cancer Med*. 2020 Jun;9(11):3964-3973. doi: 10.1002/cam4.3028. Epub 2020 Apr 3. PMID: 32243710; PMCID: PMC7286465.
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- Hsieh, C.-P., Chang, W.-T., Lee, Y.-C. and Huang, A.-M. (2015), Deficits in cerebellar granule cell development and social interactions in CD47 knockout mice. *Devel Neurobio*, 75: 463-484. <https://doi.org/10.1002/dneu.22236>
- Blaser, Rachel & Vira, Damien. (2014). Experiments on learning in zebrafish (*Danio rerio*): A promising model of neurocognitive function. *Neuroscience & Biobehavioral Reviews*. 42. 10.1016/j.neubiorev.2014.03.003.
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- Dow, Elisabeth & Piet, Valerie & Stewart, Adam & Cachat, Jonathan & Hart, Peter & Wu, Nadine & Kyzar, Evan & Utterback, Eli & Newman, Alan & Hook, Molly & Rhymes, Kathryn & Carlos, Dillon & Kalueff, Allan. (2011). Modeling Mouse Anxiety and Sensorimotor Integration: Neurobehavioral Phenotypes in the Suok Test. 10.1007/978-1-61779-313-4\_4.
- Cachat, Jonathan & Canavello, Peter & Elkhayat, Salem & Bartels, Brett & Hart, Peter & Elegante, Marco & Beeson, Esther & Laffoon, Autumn & Haymore, Whitlee & Truong, David & Tien, Anna & Mohnot, Sopan & Kalueff, Allan. (2010). Video-Aided Analysis of Zebrafish Locomotion and Anxiety-Related Behavioral Responses. 10.1007/978-1-60761-953-6\_1.
- Egan RJ, Bergner CL, Hart PC, Cachat JM, Canavello PR, Elegante MF, Elkhayat SI, Bartels BK, Tien AK, Tien DH, Mohnot S, Beeson E, Glasgow E, Amri H, Zukowska Z, Kalueff AV.

- Understanding behavioral and physiological phenotypes of stress and anxiety in zebrafish. *Behav Brain Res.* 2009 Dec 14;205(1):38-44. doi: 10.1016/j.bbr.2009.06.022. Epub 2009 Jun 18. PMID: 19540270; PMCID: PMC2922906.
- Zombeck, J. A., Gupta, T., & Rhodes, J. S. (2009). Evaluation of a pharmacokinetic hypothesis for reduced locomotor stimulation from methamphetamine and cocaine in adolescent versus adult male C57BL/6J mice. *Psychopharmacology (Berl)*, 201(4), 589-599.
- Zombeck, J. A., Chen, G. T., Johnson, Z. V., Rosenberg, D. M., Craig, A. B., & Rhodes, J. S. (2008). Neuroanatomical specificity of conditioned responses to cocaine versus food in mice. *Physiol Behav*, 93(3), 637-650.
- Dillon GM, Qu X, Marcus JN, Dodart JC. Excitotoxic lesions restricted to the dorsal CA1 field of the hippocampus impair spatial memory and extinction learning in C57BL/6 mice. *Neurobiol Learn Mem.* 2008 Sep;90(2):426-33. doi: 10.1016/j.nlm.2008.05.008. Epub 2008 Jul 7. PMID: 18602845.
- Fedulov, V., Rex, C. S., Simmons, D. A., Palmer, L., Gall, C. M., & Lynch, G. (2007). Evidence that long-term potentiation occurs within individual hippocampal synapses during learning. *J Neurosci*, 27(30), 8031-8039.
- Kwok, S. C., & Buckley, M. J. (2006). Fornix transection impairs exploration but not locomotion in ambulatory macaque monkeys. *Hippocampus*, 16(8), 655-663.
- Reed, J. A., Clegg, D. J., Smith, K. B., Tolod-Richer, E. G., Matter, E. K., Picard, L. S., et al. (2005). GM-CSF action in the CNS decreases food intake and body weight. *J Clin Invest*, 115(11), 3035-3044.
- Young, J. W., Minassian, A., Paulus, M. P., Geyer, M. A., & Perry, W. (2007). A reverse-translational approach to bipolar disorder: rodent and human studies in the Behavioral Pattern Monitor. *Neurosci Biobehav Rev*, 31(6), 882-896.

### **3.2 Oral Presentations**

- Schiffer, W., Patel, V., Lee, D., Frumberg, D., Fernando, S., Pai, J., Alexoff, D., & Dewey, S. (2006, May). Patterns of brain activation associated with conditioned place preference in rats. Presented at the J Nuclear Medicine Meeting; Abstracts, 47:11P

### **3.3 Poster Presentations**

- Rhodes, J. S., & Zombeck, J.A. (2007, November). Neuroanatomical specificity of conditioned responses to cocaine versus food in mice. Presented at SFN, San Diego, CA.
- Rosenberg, D. M., & Rhodes, J. (2007, November). Induction and sensitization to the locomotor

stimulating effects of cocaine over varying environmental conditions. Presented at SFN, San Diego, CA.

Zombeck, J. A., & Rhodes, J. (2007, November). Pharmacokinetic differences to cocaine and methamphetamine in adolescent versus adult mice. Paper presented at the SFN, San Diego, CA.

## 4. Specific Module ----- MazeScan

### 4.1 Journal Papers

Meghan Wynne, Stephanie A. Zlatic, Austin S. Park, Amanda Crocker, Hadassah Mendez-Vazquez, Eliana Liporace, Avanti Gokhale, Cristy Tower-Gilchrist, Maxine Robinette, Ryan H. Purcell, Gary J. Bassell, Erica Werner, Jennifer Q. Kwong, Victor Faundez. Suppressive Genetic Interactions Between Haploinsufficient Mitochondrial Genes Encoded in the 22q11.2 Microdeletion Locus Define Brain and Cardiac Phenotypes. *bioRxiv* 2026.01.09.698677; doi: <https://doi.org/10.64898/2026.01.09.698677>

Rashmi Kumari, Christine Bowen, Upasna Srivastava, Amanda Dabdab Brandelli, Prateek Kumar, Dilpreet Kour, Sneha Malepati, Wooyoung Eric Jang, Mark Bromwich, Hollis Zeng, Anson Sing, Steven A. Sloan, Heike Wulff, Srikant Rangaraju. Kv1.3 inhibition alleviates neuropathology via neuroinflammatory and resilience pathways in a mouse model of A $\beta$  pathology. *bioRxiv* 2025.12.25.696456; doi: <https://doi.org/10.64898/2025.12.25.696456>

Xiong, J., Kang, S.S., Wang, M. et al. FSH and ApoE4 contribute to Alzheimer's disease-like pathogenesis via C/EBP  $\beta$  /  $\delta$  -secretase in female mice. *Nat Commun* 14, 6577 (2023). <https://doi.org/10.1038/s41467-023-42282-7>

**nature** Xiong J, Kang SS, Wang Z, Liu X, Kuo TC, Korkmaz F, Padilla A, Miyashita S, Chan P, Zhang Z, Katsel P, Burgess J, Gumerova A, Ievleva K, Sant D, Yu SP, Muradova V, Frolinger T, Lizneva D, Iqbal J, Goosens KA, Gera S, Rosen CJ, Haroutunian V, Ryu V, Yuen T, Zaidi M, Ye K. FSH blockade improves cognition in mice with Alzheimer's disease. *Nature*. 2022 Mar;603(7901):470-476. doi: 10.1038/s41586-022-04463-0. Epub 2022 Mar 2. PMID: 35236988; PMCID: PMC9940301.

Liao J, Chen G, Liu X, Wei ZZ, Yu SP, Chen Q, Ye K. C/EBP  $\beta$  /AEP signaling couples atherosclerosis to the pathogenesis of Alzheimer's disease. *Mol Psychiatry*. 2022 Jul;27(7):3034-3046. doi: 10.1038/s41380-022-01556-0. Epub 2022 Apr 14. PMID: 35422468; PMCID: PMC9912845.

Xia Y, Wang ZH, Zhang Z, Liu X, Yu SP, Wang JZ, Wang XC, Ye K. Delta- and beta- secretases crosstalk amplifies the amyloidogenic pathway in Alzheimer's disease. *Prog Neurobiol*. 2021 Sep;204:102113. doi: 10.1016/j.pneurobio.2021.102113. Epub 2021 Jun 21. PMID: 34166772; PMCID: PMC8627568.

Xia, Y., Wang, Zh., Zhang, J. et al. C/EBP $\beta$  is a key transcription factor for APOE and preferentially mediates ApoE4 expression in Alzheimer's disease. *Mol Psychiatry* 26, 6002–6022 (2021). <https://doi.org/10.1038/s41380-020-00956-4>

- Xia, Y., Wang, ZH., Liu, P. et al. TrkB receptor cleavage by delta-secretase abolishes its phosphorylation of APP, aggravating Alzheimer's disease pathologies. *Mol Psychiatry* 26, 2943–2963 (2021). <https://doi.org/10.1038/s41380-020-00863-8> Liao J, Chen C, Ahn EH, Liu X, Li H, Edgington-Mitchell LE, Lu Z, Ming S, Ye K. Targeting both BDNF/TrkB pathway and delta-secretase for treating Alzheimer's disease. *Neuropharmacology*. 2021 Oct 1;197:108737. doi: 10.1016/j.neuropharm.2021.108737. Epub 2021 Jul 31. PMID: 34343610; PMCID: PMC8478860.
- Yinan Yao, Seong Su Kang, Yiyuan Xia, Zhi-Hao Wang, Xia Liu, Thorsten Muller, Yi E Sun, Keqiang Ye, A delta-secretase-truncated APP fragment activates CEBPB, mediating Alzheimer's disease pathologies, *Brain*, Volume 144, Issue 6, June 2021, Pages 1833–1852, <https://doi.org/10.1093/brain/awab062>
- Chun Chen, Eun H. Ahn, Xia Liu, Zhi-Hao Wang, Shilin Luo, Jianming Liao, and Keqiang Ye. Optimized TrkB Agonist Ameliorates Alzheimer's Disease Pathologies and Improves Cognitive Functions via Inhibiting Delta-Secretase'. *ACS Chemical Neuroscience* 2021 12 (13), 2448-2461. DOI: 10.1021/acschemneuro.1c00181
- Wang ZH, Xia Y, Liu P, Liu X, Edgington-Mitchell L, Lei K, Yu SP, Wang XC, Ye K. ApoE4 activates C/EBP  $\beta$  /  $\delta$  -secretase with 27-hydroxycholesterol, driving the pathogenesis of Alzheimer's disease. *Prog Neurobiol*. 2021 Jul;202:102032. doi: 10.1016/j.pneurobio.2021.102032. Epub 2021 Mar 11. PMID: 33716161; PMCID: PMC8627566.
- Wu, Z., Liu, X., Cheng, L. et al. Delta-secretase triggers Alzheimer's disease pathologies in wild-type hAPP/hMAPT double transgenic mice. *Cell Death Dis* 11, 1058 (2020). <https://doi.org/10.1038/s41419-020-03270-7>
- Huynh LM, Burns MP, Taub DD, Blackman MR and Zhou J (2020) Chronic Neurobehavioral Impairments and Decreased Hippocampal Expression of Genes Important for Brain Glucose Utilization in a Mouse Model of Mild TBI. *Front. Endocrinol*. 11:556380. doi: 10.3389/fendo.2020.556380
- Cantara SI, Blas-Machado U, Zhao X, Moore RH, Schroeder JP, Lee VK. Comparative Effects of 1/4-inch and 1/8-inch Corncob Bedding on Cage Ammonia Levels, Behavior, and Respiratory Pathology of Male C57BL/6 and 129S1/SvIm Mice. *J Am Assoc Lab Anim Sci*. 2020 Nov 1;59(6):695-702. doi: 10.30802/AALAS-JAALAS-19-000152. Epub 2020 Sep 2. PMID: 32878682; PMCID: PMC7604692.
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- Rasmussen SA, Daenzer JMI, MacWilliams JA, et al. A galactose-1-phosphate uridylyltransferase-null rat model of classic galactosemia mimics relevant patient outcomes and reveals tissue-specific and longitudinal differences in galactose metabolism. *J Inherit Metab Dis.* 2020;43:518–528. <https://doi.org/10.1002/jimd.12205>
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- Wang ZH, Xiang J, Liu X, Yu SP, Manfredsson FP, Sandoval IM, Wu S, Wang JZ, Ye K. Deficiency in BDNF/TrkB Neurotrophic Activity Stimulates  $\delta$ -Secretase by Upregulating C/EBP $\beta$  in Alzheimer's Disease. *Cell Rep.* 2019 Jul 16;28(3):655-669.e5. doi: 10.1016/j.celrep.2019.06.054. PMID: 31315045; PMCID: PMC6684282.
- J. Xiang,Z. Wang,E.H. Ahn,X. Liu,S. Yu,F.P. Manfredsson,I.M. Sandoval,G. Ju,S. Wu, & K. Ye, Delta-secretase-cleaved Tau antagonizes TrkB neurotrophic signalings, mediating Alzheimer's disease pathologies, *Proc. Natl. Acad. Sci. U.S.A.* 116 (18) 9094-9102, <https://doi.org/10.1073/pnas.1901348116> (2019).
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## 4.2 Poster Presentations

Stein, J. M., Fang, Y., Chennathukuzhi, V., Hecht, N.B., & Abel, T. (2003, November), Altered behavior in mice lacking testis brain RNA-binding protein. Presented at SFN, New Orleans, LA.

## 5. Specific Module ----- WaterMazeScan

### 5.1 Journal Papers

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### 5.2 Poster Presentations

Clark, P. J., & Rhodes, J. (2007, November). Is increased neurogenesis from exercise required for improved spatial learning in mice? Presented at SFN, Washington, DC.

## 6. Specific Module ----- SocialScan

### 6.1 Journal Papers

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- Annaliese K. Beery. Familiarity and Mate Preference Assessment with the Partner Preference Test *Current Protocols*, First published: 21 June 2021, <https://doi.org/10.1002/cpz1.173>
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- Tan O, Martin LJ, Bowen MT. Divergent pathways mediate 5-HT1A receptor agonist effects on close social interaction, grooming and aggressive behaviour in mice: Exploring the involvement of the oxytocin and vasopressin systems. *Journal of Psychopharmacology*. 2020;34(7):795-805. doi:10.1177/0269881120913150

- Mario Buenrostro, Jáuregui Alejandro, Tapia-de Jesús, Florencia Mata, Michelle Gavia, Oscar Galicia, Castillo César Hernández, Guerrero Luis, Miguel Rodríguez Serrano (2019) SEXRAT MALE: A smartphone and tablet application to annotate and process live sexual behavior in male rodents, *Journal of Neuroscience Methods*, Volume 320, 15 May 2019, Pages 9-15, <https://doi.org/10.1016/j.jneumeth.2019.03.001>
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- Valeria Rytova, Despina E. Ganella, David Hawkes, Ross A. D. Bathgate, Sherie Ma, Andrew L. Gundlach (2019) Chronic activation of the relaxin-3 receptor on GABA neurons in rat ventral hippocampus promotes anxiety and social avoidance, *Hippocampus*, 19 March 2019, <https://doi.org/10.1002/hipo.23089>
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## 6.2 Journal Papers (Prior to 2019)

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- Barbara L. Thompson and Pat Levitt (2015) Complete or partial reduction of the Met receptor tyrosine kinase in distinct circuits differentially impacts mouse behavior, *Journal of Neurodevelopmental Disorders* 2015, 7:35
- C E Barrett, S E Arambula and L J Young (2015) The oxytocin system promotes resilience to the effects of neonatal isolation on adult social attachment in female prairie voles, *Translational Psychiatry* (2015) 5, e606; doi:10.1038/tp.2015.73
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- Y.R. Huang, C.W. Pai, K.H. Cheng, W.I. Kuo, M.W. Chen, K.W. Chang (2014) Dopamine D2/D3 Receptor Binding of [123I]Epidepride in Risperidone-Treatment Chronic MK-801-Induced Rat Schizophrenia Model using NanoSPECT/CT Neuroimaging, *Nuclear Medicine and Biology*
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### 6.3 Poster Presentation (Old)

- Andrew H. Fairless, Deconstructing sociability: Reliability and validity of autism-relevant sociability phenotypes in mouse models, SFN 2010, San Diego.
- V. R. JIMENEZ, G. P. LAHVIS, J. B. PANKSEPP, Modulating the vocal repertoire of mice with environmental enrichment, SFN 2010, San Diego.
- S. T. SAVAGE, L. OLSON, A. MATTSSON, (2010) Novel object recognition and social interaction in rats lacking cortical cholinergic innervation; comparing manual and digital video tracking systems, SFN2010, San Diego.
- C. A. BLAISS, M. R. ETHERTON, R. HAMMER, T. C. SÜDHOF, C. M. POWELL, Deletion of neurexin-1 $\alpha$  results in autism-related behavioral abnormalities SFN 2009 Chicago.
- A. S. KREIBICH, S. SELIGMAN, E. S. BRODKIN; Dissociation between sociability and anxiety in juvenile BALB/cJ mice, a model of low sociability, SFN2009 Chicago.
- M. J. GANDAL, R. S. EHRLICHMAN, N. D. RUDNICK, S. J. SIEGEL, Selective social and communication deficits in the valproic acid mouse model of autism, SFN2009 Chicago.
- A. H. FAIRLESS, E. GORDON, H. C. DOW, I. LUCKI, E. S. BRODKIN, Effects of acute serotonin reuptake inhibitor treatment on sociability in juvenile BALB/cJ and C57BL/6J mice 436, SFN2009 Chicago.
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## 7. Specific Module ----- DrugEffect

### 7.1 Journal Papers

- Amissah, N.K., Tripi, J.A., King, C.P. et al. Dopamine receptor sensitivity, cocaine-induced behaviors, and Pavlovian conditioned approach in male rats. *Psychopharmacology* (2026). <https://doi.org/10.1007/s00213-026-07036-5>
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- Parsegian A, García-Fuster MJ, Hebda-Bauer E, Watson SJ, Flagel SB and Akil H (2022) Adolescent cocaine differentially impacts psychomotor sensitization and epigenetic profiles in adult male rats with divergent affective phenotypes. *Front. Psychiatry* 13:1024617. doi: 10.3389/fpsy.2022.1024617
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## 7.2 Poster Presentations

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