

# TopScan References

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**TopScan Presentations**

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.

### **TopScan Poster Presentations**

- 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.
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- 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.

## **(2.2) ObjectScan and LocoScan**

### **Journal Papers**

- Savage S, Kehr J, Olson L, Mattsson A., (2011) Impaired social interaction and enhanced sensitivity to phencyclidine-induced deficits in novel object recognition in rats with cortical cholinergic denervation, *Neuroscience*. 2011 Nov 10;195:60-9. Epub 2011 Aug 19
- Caterina M. Hernandez, Rakez Kaye, Hui Zheng, J. David Sweatt, and Kelly T. Dineley, Loss of  $\alpha 7$  Nicotinic Receptors Enhances  $\beta$ -Amyloid Oligomer Accumulation, Exacerbating Early-Stage Cognitive Decline and Septohippocampal Pathology in a Mouse Model of Alzheimer's Disease, *J. Neurosci.*, Feb 2010; 30: 2442- 2453 ; doi:10.1523/JNEUROSCI.5038-09.2010
- William Perry, Arpi Minassian, Martin P. Paulus, Jared W. Young, Meegin J. Kincaid, Eliza J. Ferguson, Brook L. Henry, Xiaoxi Zhuang, Virginia L. Masten, Richard F. Sharp, and Mark A. (2009). A Reverse-Translational Study of Dysfunctional Exploration in Psychiatric Disorders: From Mice to Men. *Arch Gen Psychiatry*, Oct 2009; 66: 1072 –1080
- Tagliabue G, Hogan D, Zhang WR, Dineley KT (2009). Intermediate- and long-term recognition memory deficits in Tg2576 mice are reversed with acute calcineurin inhibition. *Behav Brain Res*. 2009 Jun 8;200(1):95-9. Epub 2009 Jan 8
- T. J. Kornecook, A. P. McKinney, M. T. Ferguson and J.-C. Dodart, (2009) Isoform-specific effects of apolipoprotein E on cognitive performance in targeted-replacement mice overexpressing human APP, *Genes, Brain and Behavior* (2009).
- Clark P.J., Brezinska W.J., Puchalski E.K., Krone D.A., & Rhodes J.S. (2009). Functional analysis of neurovascular adaptations to exercise in the dentate gyrus of young adult mice associated with cognitive gain. *Hippocampus*.
- Clark, P. J., Brezinska, W. J., Thomas, M. W., Ryzhenko, N. A., Toshkov, S. A., & Rhodes, J. S. (2008). Intact neurogenesis is required for benefits of exercise on spatial memory but not motor performance or contextual fear conditioning in C57BL/6J mice. *Neuroscience*, 155(4), 1048-1058.
- Jaubert, P. J., Golub, M. S., Lo, Y. Y., Germann, S. L., Dehoff, M. H., Worley, P. F., et al. (2007). Complex, multimodal behavioral profile of the Homer1 knockout mouse. *Genes Brain Behav*, 6(2), 141-154.
- Frumberg, D. B., Fernando, M. S., Lee, D. E., Biegon, A., & Schiffer, W. K. (2007). Metabolic and behavioral deficits following a routine surgical procedure in rats. *Brain Res*, 1144, 209-218.
- Sanna, B., Brandt, E. B., Kaiser, R. A., Pfluger, P., Witt, S. A., Kimball, T. R., et al. (2006). Modulatory calcineurin-interacting proteins 1 and 2 function as calcineurin facilitators in vivo. *Proc Natl Acad Sci*, 103(19), 7327-7332.

Diano, S., Farr, S. A., Benoit, S. C., McNay, E. C., da Silva, I., Horvath, B., et al. (2006). Ghrelin controls hippocampal spine synapse density and memory performance. *Nat Neurosci*, 9(3), 381-388.

### **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  $\alpha 7$  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., Dineley, 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.

### (2.3) LocoScan

### Journal Papers

- 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.
- 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.

### 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

### 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.

## (2.4) MazeScan

### **Journal Papers**

Catania, E. H., Pimenta, A., & Levitt, P. (2008), Genetic deletion of Lsamp causes exaggerated behavioral activation in novel environments. *Behav Brain Res*, 188(2), 380-390.

Grundmann, O., Nakajima, J., Seo, S., & Butterweck, V. (2007). Anti-anxiety effects of Apocynum venetum L. in the elevated plus maze test. *J Ethnopharmacol*, 110(3), 406-411.

Stein, J. M., Bergman, W., Fang, Y., Davison, L., Brensinger, C., Robinson, M. B., et al. (2006), Behavioral and neurochemical alterations in mice lacking the RNA-binding protein translin. *J Neurosci*, 26(8), 2184-2196.

### **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.

#### **(2.4.1) Morris Water Maze**

### **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.