

J David Jentsch, Ph.D.
Curriculum Vitae

Business Address:

Department of Psychology
Binghamton University
PO Box 6000
Binghamton, New York 13902-6000
Tel: 607.748.2200



- 2014-2019 Elected Member, American College for Neuropsychopharmacology
- 2014 Biomedical Research Leadership Award, California Biomedical Research Association
- 2012 **Award for Scientific Freedom and Responsibility from the American**

Scientific Community

2017-2019	Member and Chair (2018), American College for Neuropsychopharmacology Animal Research Committee (ARC)
2016-2019	Member, Society for Neuroscience Committee on Animals in Research (CAR)
2018-present	Member, UCLA Translational Neuroscience of Drug Abuse Training Program External Advisory Board
2015-2017	Member, Selection Committee for the Jacob P. Waletzky Memorial Award for Innovative Research in Drug Addiction and Alcoholism, Society for Neuroscience
2015-2018	UCSD Translational Methamphetamine AIDS Research Center (TMARC) Scientific Advisory Board
2013-present	Yerkes National Primate Research Center Scientific Advisory Board
2009-present	Member, Board of Directors, Americans for Medical Progress
2009-2020	Member, Organizing Committee, SpeakingofResearch.com

Doctoral Student Trainees:

- In progress: Makenzie Lehr (Binghamton University; Behavioral Neuroscience)
- In progress: Alyssa (Moore) Kinser (Binghamton University; Behavioral Neuroscience)
- In progress: James Wherry (Binghamton University; Behavioral Neuroscience)
- 2023 – Lauren S. Bailey (Binghamton University; Behavioral Neuroscience)
: Heritable differences in impulsive behavior associate with altered indices of dopaminergic transmission in the nucleus accumbens and orbitofrontal cortex
- 2014 – James R. Ashenurst (UCLA; Neuroscience)
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Bailey LS, Bagley JR, Dodd R, Olsen A, Boduc M, Philip VM, Reinholdt LG, Sukoff-Rizzo SJ, Gagnon L, Chesler EJ, Jentsch JD (2021) Heritable variation in locomotion, reward sensitivity and impulsive behaviors in a genetically diverse inbred mouse panel. *Genes Brain Behav.*, 20(8):e12773. doi: 10.1111/gbb.12773.

Also posted on [10.1101/2021.04.06.438678v2](https://doi.org/10.1101/2021.04.06.438678v2);
doi.org/10.1101/2021.04.06.438678v2

Bagley JR, Chesler EJ, Phillip VM, Center for the Systems Neurogenetics of Addiction, Jentsch JD (2021) Heritability of ethanol consumption and pharmacokinetics in a genetically diverse panel of Collaborative Cross mouse strains and their inbred founders. *A yCS.2 (i)-~~any~~CS.. (t)-15..\$115..~~8~~-05]3*

Thompson AB, Gerson J, Stolyarova A, Bugarin A, Hart EE, Jentsch JD, Izquierdo A (2017) Steep effort discounting of a preferred reward over a freely-available option in prolonged methamphetamine withdrawal in male rats. *PLoS One*, 12(12):e181711. doi:10.1371/journal.pone.0181711

2016

Brown RJ, Jun BJ, Cushman JD, Nguyen C, Beighley AH, Blanchard J, Iwamoto K, Schae D, Harris NG, Jentsch JD, Bluml S, McBride WH (2016) Changes in Imaging and Cognition in Juvenile Rats After Whole-Brain Irradiation. *PLoS One*, 11(12):e164011. doi:10.1371/journal.pone.0164011

2015

James AS, Pennington ZT, Tran P, Jentsch JD (2015) Compromised NMDA/glutamate receptor expression in dopaminergic neurons impairs instrumental learning, but not Pavlovian goal tracking or sign tracking. *eNeuro*, 2(3). pii: ENEURO.0040-14.2015. doi:10.1523/JNEUROSCI.0040-14.2015

m(e)-1 (x)-1.5 (pr)-7 t 7.80.26230765(Ne)1 Tc 0.0.9 (23)-3.44 1T59o.44 1T19.8t4.9 (/)-8mc1 1Tifact BMC)-0.9 (JP44 1T59o.44 1T Tm(

Ashenhurst JR, Bujarski S, Jentsch JD and Ray LA (2014) Modeling behavioral reactivity to losses and rewards in the Balloon Analogue Risk Task: Moderation by alcohol problem severity. *Alcoholism: Clinical and Experimental Research*, 38(4):298-306. PMC4166528

Seu E, Groman SM, Arnold AP and Jentsch JD (2014) Sex chromosome complement influences operant responding for a palatable food in mice. *Behavioral Neuroscience*, 127(6): 527-34.

Jaffe, Pham JAZ, Tarash I, Getty SS, Fanselow MS and Jentsch JD (2014) The absence of the blocking in nicotine high-responders as a possible factor in the

Floresco S and Jentsch JD (2011) Pharmacological enhancement of memory and executive functioning in animals. *Neuropsychopharmacol. Rev.*, 36(1):227-50. PMC3055518

Groman SM and Jentsch JD (2011) Cognitive control and the dopamine D2-like receptor: A dimensional understanding of addiction. *Neuropsychopharmacol.*, 29(4):295-306.

Jentsch JD, Groman SM, James AS, Seu E (2011) Monoaminergic regulation of cognitive control in laboratory animals. In: Bardo MT, Fishbein DH, Milich R (Eds.) *Inhibitory Control and Drug Abuse Prevention*. Springer: New York, pp.43-62.

Fleming SM, Jentsch JD and Chesselet M-F (2011) Cognitive dysfunction in genetic mouse H,1 Carkinsonish. In: De Deyn PP, Van Dam, D (Eds.) *Animal Mod-Op10 108 5 Tw 0 -4.9 ()1Dem-Op10 ntia*. Springer: New York, pp. 485-492.

2010

Jentsch JD, Woods JA, Groman SM and Seu E (2010) Behavioral characteristics and neural mechanisms mediating performance in a rodent analogue of the balloon analogue risk task. *Neuropsychopharmacol.*, 35: 1797-1806. PMC3055471

Shilyansky C, Karim L, Groman SM, Sidiropoulou K, Jentsch JD, Groman SM (2010) Dopamine D2-like receptor-mediated modulation of cognitive control in a rodent model of addiction. *Neuropsychopharmacol.*, 29(29):13141-6. PMC2919

Lu L, Jentsch JD, Schwarcz RM, A8 5 1 (b)-0.7 (u)-0.8 (y)-7.5 (o)-9.6 (u)-0.7 (n)-0.8 (e)-6 (s)6.6 (1D)-8.5 (,)6.9 () and gender preference of XXY mice. *Neuropsychopharmacol.*, 299(3):E446-55.

Jasinska AJ, Service S, Grujic O, Sit-ye Kong S-Y, Choi O-W, Deyoung J, Jorgensen M, Bailey J, Breidenthal S, Fairbanks L, Woods R, Jentsch JD

Lu Y-H, Jentsch JD

Verrico CD, Jentsch JD, Roth RH and Taylor JR (2003) Repeated, intermittent delta⁹-tetrahydrocannabinol administration to rats impairs acquisition and performance of a test of visuospatial divided attention. *Neuroscience and Biobehavioral Reviews*, 29: 522-529.

Jentsch JD (2003) Pre-clinical models of cognitive dysfunction in schizophrenia: New avenues to addressing unmet needs. *Schizophrenia Bulletin*, 3: 303-315.

Jentsch JD (2003) PCP (Phencyclidine hydrochloride). In: Aminoff M and Daroff R (Eds.), Encyclopedia of Neurological Sciences, v. 3. Academic Press: San Diego, pp. 833-834.

2002

Jentsch JD, Olausson P, De La Garza R and Taylor JR (2002) Impairments of reversal learning and response perseveration after subchronic cocaine administration to monkeys. *Behavioral Neuroscience*, 26: 183-190.

Jentsch JD, Olausson P, Nestler EJ and Taylor JR (2002) Activation of protein kinase A activity in rat basolateral/central amygdala facilitates reward-related learning. *NeuroReport*, 52: 111-118.

De La Garza R, Jentsch JD, Verrico CD and Roth RH (2002) Adaptation of monoaminergic responses to phencyclidine in nucleus accumbens and prefrontal cortex following repeated treatment with fluoxetine or imipramine. *NeuroReport*, 958: 20-27.

Picciotto MR, Alreja M and Jentsch JD (2002) Acetylcholine. In: Davis KL, Charney D, Coyle J and Nemeroff C (Eds.) Psychopharmacology: The Fifth Generation of Progress. Lippincott, Williams and Wilkins: New York, pp. 3-14.

Jentsch JD, Olausson P and Moore H (2002) Animal models of psychosis. In: Soares J and Gershon S (Eds.) Handbook of Medical Psychiatry. Marcel Dekker, Inc.: New York, pp.317-334.

2001

Jentsch JD, Taylor JR (2001) Impaired inhibition of conditioned responses produced by subchronic administration of phencyclidine to rats. *Behavioral Neuroscience*, 24: 66-74.

Dazzi L, Spiga F, Pira L, Ladu S, Vacca G, Rivano A, Jentsch JD and Biggio G (2001) Inhibition of stress- or anxiogenic drug-induced increases in dopamine release in the rat prefrontal cortex by long-term treatment with antidepressant drugs. *NeuroReport*, 76: 1212-1220.

Taylor JR and Jentsch JD (2001) Repeated intermittent administration of psychomotor stimulant drugs alters the acquisition of Pavlovian approach behavior in rats: Differential effects of cocaine, amphetamine and 3,4-methylenedioxymethamphetamine ("Ecstasy"). *NeuroReport*, 76: 1212-1220.

Dazzi L, Serra M, Spiga F, Pisu MG, Jentsch JD and Biggio G (2001) Prevention of the stress-induced increase in frontal cortical dopamine efflux of freely moving rats by long-term treatment with antidepressant drugs. *Journal of Affective Disorders*. 11: 343-349.

2000

Jentsch JD, Roth RH, Taylor JR (2000) Impaired performance of an object retrieval/detour task by monkeys after subchronic phencyclidine administration: Evidence for cognitive impulsivity. *Journal of Abnormal Psychology*. 48: 415-424.

Jentsch JD, Taylor JR and Roth RH (2000) Phencyclidine model of frontal cortical dysfunction in non-human primates. *Journal of Abnormal Psychology*. 6: 263-270.

Taylor JR and Jentsch JD (2000) Stimulant effects on striatal and cortical systems involved in reward-related behavior and impulsivity. In: Solanto-Gardner M, Arnsten AFT and Castellanos FX (Eds.), Stimulant Drugs and AD/HD: Basic and Clinical Neuroscience. Oxford University Press: New York, pp. 104-133.

Jentsch JD and Roth RH (2000) Effects of antipsychotic drugs on dopamine release and metabolism in the central nervous system. In: Lidow M (Ed.), Role of Neurotransmitter

Receptors in Antipsychotic Drug Action. *Journal of Abnormal Psychology*. 109: 411-419.

1998

Jentsch JD, Elsworth JD, Taylor JR, Redmond DE and Roth RH (1997) Dysregulation of mesoprefrontal dopamine neurons induced by acute and repeated phencyclidine administration in the non-human primate: Implications for schizophrenia. In: Goldstein DS, Eisenhofer G and McCarty R (Eds.), Catecholamines: Bridging Basic Science with Clinical Medicine. San Diego, Academic Press, pp. 810-814.

1996

Murphy BL, Arnsten AFT, Jentsch JD and Roth RH (1996) Dopamine and spatial working memory in rats and monkeys: Pharmacological modulation of FG7142-induced impairment. *J Neurosci*. 16: 7768-7775.

Invited Talks (2017-present)

27-JAN-23: "Reward, interrupted: Inhibitory control and its relevance to addictions"; California State University BRAIN Alliance; Virtual format.

16-SEP-22: : "Reward, Interrupted: Inhibitory Control and its Relevance to Addictions"; University of Texas at El Paso.

16-AUG-22 : "Frontostriatal dysfunction theory for addiction: past, present and future"; Gordon Research Conference on the Neurobiology of Addiction; Newry ME.

12-JUN-22: : "The future of animal research on addiction(s): Promises and perils"; College on the Problems of Drug Dependence annual conference; Minneapolis MN.

22-APR-22: : "Sex, drugs and impulsivity: Novel associations discovered in the diverse mouse genome"; The Department of Genetics, Genetics and Informatics at 11001 Twombles

08-DEC-20:

"Life After Compulsive Substance Use: How to Translate the

Current Funding

P50-AA017823 (9/19-8/24) Developmental Exposure to Alcohol Research Center

Role: PI of Main Project 1: "Sex chromosome complement moderates prenatal alcohol effects on brain and behavior"

Annual total costs: \$186,323

Total costs: \$74,227