

**J David Jentsch, Ph.D.**  
***Curriculum Vitae***

**Business Address:** Department of Psychology  
Binghamton University  
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**Birthdate:** 9 April 1972  
**Birthplace:** Seguin, Texas U.S.A.

**Education:**  
1999 Doctor of Philosophy (Neurobiology), Yale University  
1999 Master of Philosophy (Neurobiology), Yale University  
1992 Bachelor of Arts (Behavioral Biology), The Johns Hopkins University

**Professional Experience:**  
2017- Training Director, Development and Neuroadaptations in Alcohol and Addictions NIH-funded Institutional Training Program at Binghamton University  
2015- Empire Innovation Professor of Psychology (Behavioral Neuroscience), Binghamton University  
2009-2016 Professor in the Departments of Psychology and Psychiatry & Biobehavioral Sciences, UCLA  
2009-2014 Associate Director for Research, Brain Research Institute, UCLA  
2007-2009 Associate Professor (Tenure), Psychiatry & Biobehavioral Sciences, University of California at Los Angeles  
2006-2009 Associate Professor (Tenure), Psychology, University of California at Los Angeles  
2001-2015 Member, Brain Research Institute, University of California at Los Angeles  
2001-2006 Assistant Professor, Psychology, University of California at Los Angeles  
2000-2001 Associate Research Scientist, Department of Psychiatry, Yale University  
1999-2000 Postdoctoral Fellow, Department of Neuroscience, University of Pittsburgh  
1994-1999 Graduate Student, Section of Neurobiology, Yale University

**Honors and Awards:**  
2014 Elected member, American College of Neuropsychopharmacology  
2014 Biomedical Research Leadership Award, California Biomedical Research Association  
2012 Award for Scientific Freedom and Responsibility from the American Association for the Advancement of Science  
2011 The Jacob P. Waletzky Memorial Award for Innovative Research in Drug Addiction and Alcoholism  
2011 Department of Psychology Distinguished Service Award  
2010 Joseph Cochin Young Investigator Award, College on the Problems of Drug Dependence  
2009 Department of Psychology Distinguished Teaching Award

2001	Young Investigator Award, International Congress on Schizophrenia
2000	American College of Neuropsychopharmacology/Bristol Myers Travel Award
2000	International College of Neuropsychopharmacology/Rafaelsen Fellowship Award
1998	Accuscan Prize for Behavioral Neuroscience
1996-1997	Scottish Rite Schizophrenia Research Dissertation Award
1994-1996	Yale University Doctoral Fellowship

**Professional Activities:**

NIH Review

2018	<i>Ad hoc</i> member, Biobehavioral Regulation, Learning and Ethology Study Section
2016- 2018	Member and/or Chair, NIDA Special Emphasis Panel; PAR-15-120: Identification of Genetic and Genomic Variants by Next-Generation Sequencing in Non-Human Animal Models
2016	Member, NIAAA Special Emphasis Panel; Integrative Neuroscience Initiative on Alcoholism (INIA)
2014-2015	Member and/or Chair, NIDA Special Emphasis Panel, Cutting-Edge Basic Research Award (CEBRA)
2011-2017	Regular Member, Pathophysiology of Mental Disorders and Addictions study section
2014	Member, BRAIN Initiative Review Panel (NINDS/NIH); Integrated Approaches to Understanding Circuit Function in the Nervous System
2013	NIH Special Emphasis Panel Reviewer, Developmental Pharmacology and Adverse Drug Reactions in Children
2013	NIDA Special Emphasis Panel Reviewer, Exceptional Unconventional Research Enabling Knowledge Acceleration (EUREKA) for Neuroscience and Disorders of the Nervous System
2011	Chair, Washington National Primate Center Site Review team
2010	Member, Yerkes National Primate Research Center Site Review team
2008,9	Member; NICHD P01 review panel
2009-2011	<i>Ad hoc</i> ; Pathophysiology of Mental Disorders and Addictions study section
2009	<i>Ad hoc</i> ; Neurobiology of Motivated Behavior study section
2005-2015	NIH Mail Reviewer (B/START and R13 Conference Grants)

Journal

2014-present	Advisory Editor, <i>Psychopharmacology</i>
2014-present	Consulting Editor, <i>Behavioral Neuroscience</i>
2008-2014	Associate Editor, <i>Journal of Neuroscience</i>
2007-2014	Consulting Editor, <i>Cognitive, Affective and Behavioral Neuroscience</i>

Scientific Community

2016-present	Chair, American College for Neuropsychopharmacology Animal Research Committee (ARC)
2016- present	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

2015-present	Neuroscience 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-present	Member, Organizing Committee, SpeakingofResearch.com

## **Publications**

### **2018**

#### *Empirical Data Papers*

**Linden J, James AS, McDaniel C, Jentsch JD (2018) Dopamine D2 receptors in dopaminergic neurons modulate performance in a reversal learning test. *eNeuro* 28 February 2018, ENEURO.0229-17.2018; DOI: <https://doi.org/10.1523/ENEURO.0229-17.2018>**

#### *Review Articles*

**Egervari G, Ciccocioppo R, Jentsch JD, Hurd YL (2017) Shaping vulnerability to addiction - the contribution of behavior, neural circuits and molecular mechanisms. *Neurosci Biobehav Rev.* 85:117-125.**

### **2017**

#### *Empirical Data Papers*

**Jasinska AJ, Zelaya I, Service SK, Peterson C, Cantor RM, Choi OW, DeYoung J, Eskin E, Fairbanks LA, Fears S, Furterer A, Huang YS, Ramensky V, Schmitt CA, Svandal H, Jorgensen MJ, Kaplan JR, Villar D, Aken BR, Flicek P, Nag R, Wong ES, Blangero J, Dyer TD, Bogomolov M, Benjamini Y, Weinstock GM, Dewar K, Sabatti C, Wilson RK, Jentsch JD, Warren W, Coppola G, Woods RP, Freimer NB (2017) Genetic variation and gene expression across multiple tissues and developmental stages in a non-human primate. *Nature Genetics*, 49(12):1714-1721.**

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. *Psychopharmacology (Berl)*. 234(18):2697-2705.

### **2016**

#### *Empirical Data Papers*

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. *Int J Radiat Oncol Biol Phys.*, 96(2):470-478..

### **2015**

#### *Empirical Data Papers*

**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/ENEURO.0040-14.2015.**

Spiegel S, Chiu A, James AS, Jentsch JD, Karlsgodt KH (2015) Recognition deficits in mice carrying mutations of genes encoding BLOC-1 subunits pallidin or dysbindin. *Genes Brain Behav.*, 14: 618-24.

Elsworth JD, Jentsch JD, Groman SM, Roth RH, Redmond DE and Leranth C (2015) Low circulating levels of bisphenol-A induce cognitive deficits and loss of asymmetric spine synapses in dorsolateral prefrontal cortex and hippocampus of adult male monkeys. *J. Comp. Neurol.*, 523(8):1248-57.

## **Publications**

### **2014**

#### *Empirical Data Papers*

**Groman SM, James AS, Seu E, Tran S, Clark T, Harpster S, Crawford M, Burtner J, Feiler K, Roth RH, Elsworth JD, London ED and Jentsch JD (2014) In the blink of an eye: Relating positive-feedback sensitivity to striatal dopamine D2-like receptors through blink rate. *J. Neurosci.*, 34(43):14443-54.**

Elsworth JD, Groman SM, Jentsch JD, Leranth C, Redmond DE Jr, Kim JD, Diano S and Roth RH (2014) Primate phencyclidine model of schizophrenia: sex-specific effects on cognition, BDNF, spine synapses and dopamine turnover in prefrontal cortex. *Int. J. Neuropsychopharmacol.*, 18(6). pii: pyu048.

Cui YJ, Ostlund SB, James AS, Park CS, Ge W, Roberts KW, Mittal N, Murphy NP, Cepeda C, Kieffer BL, Levine MS, Jentsch JD, Walwyn WM, Sun YE, Evans CJ, Maidment NT and Yang WX (2014) Targeted expression of mu opioid receptors in a subset of striatal direct-pathway neurons restores opiate reward. *Nature Neurosci.*, 17(2):254-61. PMC4008330

Pineda E, Jentsch JD, Shin D, Griesbach G, Sankar R and Mazarati A (2014) Behavioral impairments in rats with chronic epilepsy suggest comorbidity between epilepsy and attention deficit/hyperactivity disorder. *Epilepsy & Behavior*, 31: 267-75.

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. *Exp. Clin. Psychopharmacol.*, 22(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. *Genes Brain Behav.*, 13(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 development of nicotine dependence. *Op. Addiction J.*, 7: 8-16.

#### *Review Articles*

**Jentsch JD, Ashenhurst JR, Cervantes MC, Groman SM, James AS and Pennington ZT (2014) Dissecting impulsivity and its relationship to drug addictions. *Ann. N. Y. Acad. Sci. (Addiction Reviews)*, 1327(1):1-26.**

## **2013**

### *Empirical Data Papers*

**Cervantes MC, Laughlin RE and Jentsch JD (2013) Cocaine self-administration behaviors in mouse inbred lines segregating different capacities for inhibitory control. *Psychopharmacol.*, 229(3):515-25. PMC3770817**

**Groman SM, Morales AM, Lee B, London ED and Jentsch JD (2013) Methamphetamine-induced increases in putamen gray matter associate with inhibitory control. *Psychopharmacol.*, 229(3):527-538. PMC3770792**

Elsworth JD, Jentsch JD, Vandervoort CA, Roth RH, Redmond DE, Leranath C (2013) Prenatal exposure to bisphenol A impacts midbrain dopamine neurons and hippocampal spine synapses in non-human primates. *Neurotoxicol.*, 35:113-120. PMC3660149

Groman SM, James AS, Seu E, Crawford MA, Harpster S and Jentsch JD (2013) Monoamine levels within the orbitofrontal cortex and putamen interact to predict reversal learning performance. *Biol. Psychiatry*, 73(8):756-62. PMC3615106

Holley SM, Wang EA, Cepeda C, Jentsch JD, Ross CA, Pletnikov M and Levine MS (2013) Frontal cortical synaptic communication is abnormal in *disc1* genetic mouse models of schizophrenia. *Schizophr. Res.*, 146(1-3):264-72. PMC3622830

Saggu S, Cannon TD, Jentsch JD and Lavin A (2013) Potential molecular mechanisms for decreased synaptic glutamate release in dysbindin-1 mutant mice. *Schizophr. Res.*, 146(1-3):254-63. PMC3628687

James AS, Chen JY, Cepeda C, Mittal M, Jentsch JD, Levine MS, Evans CJ, Walwyn WM (2013) Opioid self-administration results in cell-type specific adaptations of striatal medium spiny neurons. *Behav. Brain Res.*, 256:279-83.

Ma Y-Y, Henley SM, Toll J, Jentsch JD, Evans CJ, Levine MS, Cepeda C (2013) Drug-primed reinstatement of cocaine seeking in mice: Increased excitability of medium-sized spiny neurons in the nucleus accumbens. *ASN Neuro.*, 5(4):257-71. PMC3789142

Glen WB, Horowitz B, Carlson GC, Cannon TD, Talbot K, Jentsch JD and Lavin A (2013) Dysbindin-1 compromises NMDAR-dependent synaptic plasticity and contextual fear conditioning. *Hippocampus*, 24(2):204-13.

### *Review Articles*

Young JW, Jentsch JD, Bussey TJ, Wallace TJ and Hutchenson DM (2013) Consideration of species differences in developing novel molecules as cognition enhancers. *Neurosci. Biobehav. Rev.*, 37(9 Pt B):2181-93.

Groman SM and Jentsch JD (2013) Identifying the molecular basis of inhibitory control deficits in addictions: Neuroimaging in non-human primates. *Curr. Op. Neurobiol.*, 23(4):625-31. PMC3731407

**Jentsch JD and Pennington ZT (2013) Reward, interrupted: Inhibitory control and its relevance to addictions. *Neuropharmacol.* (Special Issue dedicated to the 40<sup>th</sup> Anniversary of the National Institute on Drug Abuse), 76: 479-86.**

Jasinska AJ, Schmitt C, Service S, Cantor R, Dewar K, Jentsch JD, Kaplan J, Turner T, Warren W, Weinstock G, Woods R and Freimer NB (2013) Systems biology of the vervet monkey. *I. L. A. R. J.*, 54(2):122-43.

Gilmour G, Arguello A, Bari A, Brown VJ, Carter C, Floresco SB, Jentsch JD, Tait DS, Young JW, Robbins TW (2013) Measuring the construct of executive control in schizophrenia: Defining and validating translational animal paradigms for discovery research. *Neurosci. Biobehav. Rev.*, 37(9 Pt B):2125-40.

#### *Book Chapters*

Maldonado R, Jentsch JD, Kieffer BL and Evans CJ (2013) Animal models for addiction. In: Charney DS, Sklar P, Buxbaum JD and Nestler EJ (Eds.) Neurobiology of Mental Illness, 4<sup>th</sup> Edition. Oxford: New York, pp. 675-82.

## **2012**

#### *Empirical Data Papers*

Courtney KE, Arellano R, Barkley-Levenson E, Galvan A, Poldrack RA, MacKillop J, Jentsch JD and Ray LA (2012) The relationship between measures of impulsivity and alcohol misuse: An integrative structural equation modeling approach. *Alcohol Clin. Exp. Res.*, 36(6):923-31. PMC3711239

Ashenhurst JR, Seaman M and Jentsch JD (2012) Responding in a test of decision-making under risk is under moderate genetic control in the rat. *Alcohol Clin. Exp. Res.*, 36(6):417-25.

Elsworth JD, Groman S, Jentsch JD, Valles R, Shahid M, Wong E, Marston H and Roth RH (2012) Asenapine effects on cognitive and monoamine dysfunction elicited by subchronic phencyclidine administration. *Neuropharmacol.*, 62(3):1442-52. PMC3711239

Magen I, Fleming SM, Zhu C, Garcia EC, Cardiff KM, Dihn D, De La Rosa K, Sanchez M, Torres ER, Masliah E, Jentsch JD and Chesselet MF (2012) Cognitive deficits in a mouse model of pre-manifest Parkinson's disease. *Eur. J. Neurosci.*, 35(6):870-82. PMC3967873

**Groman SM, Lee B, Seu E, James AS, Feiler K, Mandelkern M, London ED and Jentsch JD (2012) Dysregulation of D2-mediated dopamine transmission in monkeys after chronic, escalating methamphetamine exposure. *J. Neurosci*, 32(17):5843-52. PMC335381**

Jasinska AJ, Lin MK, Service S, Choi OW, DeYoung J, Grujic O, Kong SY, Jung Y, Jorgensen MJ, Fairbanks LA, Turner T, Cantor RM, Wasserscheid J, Dewar K, Warren W, Wilson RK, Weinstock G, Jentsch JD and Freimer NB (2012) A non-human primate system for large-scale genetic studies of complex traits. *Hum. Mol. Genetics*, 21(15):3307-16. PMC3392106

Lutkenhoff ES, Karlsgodt KH, Gutman B, Stein JL, Thompson PM, Cannon TD and Jentsch JD (2012) Structural and functional neuroimaging phenotypes in dysbindin mutant mice. *Neuroimage*, 62(1):120-129.

### Review Articles

Izquierdo A and Jentsch JD (2012) Reversal learning as a measure of impulsive and compulsive behavior: Relevance to addiction. *Psychopharmacol.*, 219(2): 607-620. [PMC3249486](#)

Ghazalpour A, Rau CD, Farber CR, Bennett BJ, Orozco LD, van Nas A, Pan C, Allayee H, Beaven SW, Civelek M, Davis RC, Drake TA, Friedman RA, Furlotte N, Hui ST, Jentsch JD, Kostem E, Kang HM, Kang EY, Joo JW, Korshunov VA, Laughlin RE, Martin LJ, Ohmen JD, Parks BW, Pellegrini M, Reue K, Smith DJ, Tetradis S, Wang J, Wang Y, Weiss JN, Kirchgessner T, Gargalovic PS, Eskin E, Lusk AJ, Leboeuf RC (2012) Hybrid mouse diversity panel: a panel of inbred mouse strains suitable for analysis of complex genetic traits. *Mamm. Genome*, 23(9-10): 680-92.

### **2011**

#### Empirical Data Papers

Karlsgodt KH, Robleto K, Trantham-Davidson H, Jairl C, Cannon TD, Lavin A and Jentsch JD (2011) Reduced dysbindin expression mediates NMDA receptor hypofunction and impaired working memory. *Biol. Psychiatry*, 69(1):28-34.

**Laughlin RE, Grant TL, Williams RWW and Jentsch JD (2011) Genetic dissection of behavioral flexibility: Reversal learning in mice. *Biol. Psychiatry*, 69(11):1109-16. [PMC3090526](#)**

**Groman SM, Lee B, London ED, Mandelkern M, James AS, Feiler K, Rivera RJ, Dahlbom, M, Sossi V, Vandervoort E and Jentsch JD (2011) Dorsal striatal D2-like receptor availability co-varies with sensitivity to positive reinforcement during discrimination learning. *J. Neurosci.*, 31: 7291-7299. [PMC3114883](#)**

Ashenhurst JR, Jentsch JD and Ray LA (2011) Risk-taking measured by the balloon analogue risk task and alcohol use disorders symptomatology in a sample of problem drinkers. *Exp. Clin. Psychopharmacol.*, 19(5):361-70.

### Review Articles

**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. *Depression and Anxiety*, 29(4):295-306.

### Book Chapters

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 models of Parkinsonism. In: De Deyn PP, Van Dam D (Eds.) Animal Models of Dementia. Springer: New York, pp. 485-492.

## **2010**

### *Empirical Data Papers*

**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, Karlsgodt K, Cummings D, Sidiropoulou K, Hardt M, James A, Ehninger D, Bearden C, Poirazi P, Jentsch JD, Cannon TD, Levine MS and Silva AJ (2010) Neurofibromin regulates corticostriatal inhibitory networks during working memory performance. *Proc Natl Acad Sci USA*, 107(29):13141-6. PMC2919968

Lu PY, Erkkila K, Lue YH, Jentsch JD, Schwarcz RM, Abuyounes D, Hikim AS, Wang C, Lee PWN and Swerdloff RS (2010) Genetic, hormonal and metabolomic influences on social behavior and gender preference of XXY mice. *Am J Physiol-Endocrinol Metabol*, 299(3):E446-55. PMC2944286

### *Review Articles*

Winstanley CA, Olausson P, Taylor JR and Jentsch JD (2010) Insight into the relationship between impulsivity and substance abuse from studies using animal models. *Alcohol Clin Exp Res*, 34(8):1306-18.

## **2009**

### *Empirical Data Papers*

Jentsch JD, Trantham-Davidson H, Jairl C, Tinsley M, Cannon TD and Lavin A (2009) Dysbindin modulates prefrontal cortical glutamatergic circuits and working memory function in mice. *Neuropsychopharmacol.*, 34: 2601-8. PMC2762021

Seu E and Jentsch JD (2009) Effect of acute and repeated treatment with desipramine or methylphenidate on serial reversal learning in rats. *Neuropharmacol.*, 57: 665-72. PMC2783924

Jasinska AJ, Service S, Grujic O, Sit-yeek Kong S-Y, Choi O-W, Deyoung J, Jorgensen M, Bailey J, Breidenthal S, Fairbanks L, Woods R, Jentsch JD and Freimer N (2009) Identification of brain transcriptional variability reproduced in peripheral blood: an approach for mapping brain eQTL. *Hum Mol Genet.*, 18: 4415-27. PMC2766297

Ghahremani DG, Monterosso J, Jentsch JD, Bilder RM and Poldrack RA (2009) Neural components underlying behavioral flexibility in human reversal learning. *Cerebral Cortex*, 20(8):1843-52. PMC2901019

### *Review Articles*

Groman SM, James AS and Jentsch JD (2009) Poor response inhibition: At the nexus between substance abuse and attention deficit/hyperactivity disorder. *Neurosci. Biobehav. Rev.*, 33: 690-8. PMC2728075

Bilder RM, Sabb F, Cannon TD, London ED, Jentsch JD, Parker S, Poldrack RA, Evans C and Freimer NB (2009) Phenomics: The systematic study of phenotypes on a genome-wide scale. *Neurosci.*, 164: 30-42. PMC2760679



## Commentaries

Ringach DL and Jentsch JD (2009) Enough is enough. *J. Neurophysiol.*, 102: 2007.

Ringach DL and Jentsch JD (2009) We must face the threats. *J. Neurosci.*, 29: 11417-11418. [This article is the 2<sup>nd</sup> highest rated Biological Sciences paper of all time, according to Facultyof1000.com]

## **2008**

### *Empirical Data Papers*

Jentsch JD, Aarde SM and Seu E (2008) Effects of atomoxetine and methylphenidate on performance of a lateralized reaction time task by rats. *Psychopharmacol. (Special Issue on Cognitive Enhancers)*, 202: 497-504.

**Seu E, Lang A, Rivera R and Jentsch JD (2008) Inhibition of the norepinephrine transporter improves behavioral flexibility in rats and monkeys. *Psychopharmacol. (Special Issue on Cognitive Enhancers)*, 202: 505-19. PMC2634830**

Jentsch JD, Sanchez D Elsworth JD, and Roth RH (2008) Clonidine and guanfacine attenuate phencyclidine-induced dopamine overflow in rat prefrontal cortex: Mediating influence of the alpha-2A adrenoceptor subtype. *Brain Res.*, 1246:41-6. PMC2674271

### *Review Articles*

Kalechstein A, Jentsch JD and Kantak K (2008) Stimulant-associated cognitive abnormalities: Mechanisms and impact on reward-related behavior and addiction. *Drug Alcohol Dep.*, 97: 276-80.

Jentsch JD (2008) Impulsivity in animal models for drug abuse disorders. *Drug Discov. Today Dis. Models*, 5(4):247-250. PMC2796840

## **2007**

### *Empirical Data Papers*

**Lee B, Groman S, London ED and Jentsch JD (2007) Dopamine D2/D3 receptors play a specific role in the reversal of a learned visual discrimination in monkeys. *Neuropsychopharmacol.*, 32: 2125-2134.**

Elsworth JD, Jentsch JD, Morrow BA, Redmond DE and Roth RH (2007) Clozapine normalizes prefrontal cortex dopamine transmission in monkeys subchronically exposed to phencyclidine. *Neuropsychopharmacol.*, 33: 491-6.

Li W, Zhou Y, Jentsch JD, Brown RAM, Tian X, Ehninger D, Hennah W, Peltonen L, Lonqvist J, Huttunen MO, Kaprio J, Trachtenberg JT, Silva AJ and Cannon TD (2007) Specific developmental disruption of disrupted-in-schizophrenia-1 function results in schizophrenia-related phenotypes in mice. *Proc. Natl. Acad. Sci. U.S.A.*, 104(46):18280-18285.

**James AS, Groman SM, Seu E, Jorgensen M, Fairbanks LA and Jentsch JD (2007) Dimensions of impulsivity are associated with poor spatial working memory performance in monkeys. *J. Neurosci.*, 27: 14358-64.**

### *Review Articles*

Olausson P, Jentsch JD, Krueger DD, Tronson NC, Nairn AC and Taylor JR (2007) Orbitofrontal cortex and cognitive-motivational impairments in psychostimulant addiction: Evidence from experiments in the non-human primate. *Ann. N.Y. Acad. Sci.*, 1121: 610-38.

### *Book Chapters*

Jentsch JD and Roth RH (2007) Inter-cellular signaling (Synaptic transmission). In: Sibley D (Ed.) The Handbook for Contemporary Neuropharmacology. Wiley: New York, pp. 39-58.

### **2006**

Aarde SM and Jentsch JD (2006) Haploinsufficiency of the arginine-vasopressin gene is associated with poor spatial working memory performance in rats. *Hormones Behav.*, 49: 501-508.

Moore H, Jentsch JD, Ghajarnia M, Geyer MA and Grace AA (2006) A neurobehavioral systems analysis of adult rats exposed to methylazoxymethanol acetate (MAM) on E17: implications for the neuropathology of schizophrenia. *Biol. Psychiatry*, 60: 253-264.

Olausson P, Jentsch JD, Tronson N, Neve RL, Nestler EJ and Taylor JR (2006) Delta-FosB regulates food-reinforced instrumental responding and motivation. *J. Neurosci.*, 26: 9196-9204.

### **2005**

#### *Empirical Data Papers*

Jentsch JD (2005) Impaired visuospatial attention in the spontaneously hypertensive rat. *Behav. Brain Res.*, 157: 323-330.

Marrs W, Kuperman J, Avedian T, Roth RH and Jentsch JD (2005) Alpha-2 adrenoceptor activation inhibits NMDA antagonist-induced deficits of spatial working memory in rats. *Neuropsychopharmacol.*, 30: 1500-1510.

Lu Y-H, Jentsch JD, Wang C, Rao PN, Sinha Hikim AP, Salameh W, Swerdloff RS (2005) XXY mice exhibit gonadal and behavioral phenotypes similar to Klinefelter's Syndrome. *Endocrinol.*, 146: 4148-4154.

Li W, Cui Y, Kushner SA, Brown RA, Jentsch JD, Frankland PW, Cannon TD and Silva AJ (2005) The HMG-CoA reductase inhibitor, lovastatin, reverses the learning and attention deficits in a mouse model for Neurofibromatosis Type-1. *Curr. Biol.*, 15: 1961-1967.

### **2004**

#### *Empirical Data Papers*

Olausson P, Jentsch JD and Taylor JR (2004) Repeated nicotine exposure enhances responding with conditioned reinforcement. *Psychopharmacol.*, 173: 98-104.

Jentsch JD and Anzivino LA (2004) A low dose of the alpha-2 agonist clonidine ameliorates the visual attention and spatial working memory deficits produced by phencyclidine administration to rats. *Psychopharmacol.*, 175: 76-83.

Arguello PA and Jentsch JD (2004) Cannabinoid CB1 mediated impairment of visuospatial attention in the rat. *Psychopharmacol.*, 177: 141-150.

## **2003**

### *Empirical Data Papers*

Jentsch JD and Taylor JR (2003) Sex-related differences in spatial divided attention and motor impulsivity in rats. *Behav. Neurosci.*, 117: 76-83.

Jentsch JD (2003) Genetic vasopressin deficiency facilitates performance of a lateralized reaction time task: Altered attentional and motor processes. *J. Neurosci.*, 23: 1066-1071.

Olausson P, Jentsch JD and Taylor JR (2003) Repeated nicotine exposure enhances reward-related learning in the rat. *Neuropsychopharmacol.*, 28: 1264-1271.

Verrico CD, Jentsch JD, Dazzi L and Roth RH (2003) Systemic, but not local, administration of cannabinoid CB1 receptor agonists modulate prefrontal cortical acetylcholine efflux in the rat. *Synapse*, 48: 178-183.

Verrico CD, Jentsch JD and Roth RH (2003) A persistent and anatomically selective reduction in prefrontal cortical dopamine metabolism after repeated, intermittent cannabinoid administration to rats. *Synapse*, 49: 61-66.

Jentsch JD, Arguello PA and Anzivino LA (2003) Null mutation of the arginine-vasopressin gene in rats slows attentional engagement and facilitates response accuracy in a lateralized reaction time task. *Neuropsychopharmacol.*, 28: 1957-1605

Olausson P, Jentsch JD and Taylor JR (2003) Nicotine enhances responding with conditioned reinforcement. *Psychopharmacol.*, 171: 173-178.

Verrico CD, Jentsch JD, Roth RH and Taylor JR (2003) Repeated, intermittent delta<sup>9</sup>-tetrahydrocannabinol administration to rats impairs acquisition and performance of a test of visuospatial divided attention. *Neuropsychopharmacol.*, 29: 522-529.

### *Review Articles*

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

### *Book Chapters*

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**

### *Empirical Data Papers*

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. *Neuropsychopharmacol.* 26: 183-190.

Jentsch JD, Olausson P, Nestler EJ and Taylor JR (2002) Activation of protein kinase A activity in

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### ***Current Funding***

P50-DA039841 (08/16-4/21) Center for Systems Neurogenetics of Addictions

Role: PI of Project 1: Impulsivity

Annual total costs: \$197,230

R01-DA031852 (05/12-04/18) Genetic influences on inhibitory control and cocaine sensitivity  
Role: PI  
Annual total costs: \$326,081

R01-HD076125 (05/14-04/19) Genetic mechanisms in Klinefelter Syndrome-related behaviors  
Role: Co-PI  
Annual total costs: \$427,228

T32-AA025606 (06/17-05/22) Development and neuroadaptations in alcohol and addiction  
Role: Training Director  
Annual total costs: \$326,848

U01-DA041602 (09/17-05/22) Genetic pathways for impulsivity and drug reinforcement: DNA and transcriptome variation in mice  
Role: Co-PI  
Annual total costs: \$683,476

***Pending Funding***

P50-AA017823 (9/19-8/24) Developmental Exposure to Alcohol Research Center  
Role: PI of Main Project 1 and the Pilot Project Core

***Past Funding***

R21-DA038377 (07/14-10/16) Synapsin 3: Involvement in impulsivity and drug self-administration  
Role: PI  
Total costs: \$404,480

R21-OD017959 (05/14-04/16) Non-Human Primate Model for Systems Biology Studies of Stress Response  
Role: Investigator  
Total costs: \$420,420

R21-AA022752 (09/14-08/2016) Modeling Alcohol Reward and Reinforcement in the Human Laboratory  
Role: Investigator  
Total costs: \$398,763

P50-DA005010 (07/12-06/17) Center for the Study of Opioid Receptors and Drug Abuse  
Role: Co-investigator on Project 3: Opioid Drug Self-Administration

P20-DA022539 (09/06-08/10) Methamphetamine Abuse, Inhibitory Control: Treatment Implications  
Role PI on Project 3: Neurochemical determinants of MA-induced cognitive deficits  
Total costs: \$752,089

P50-MH077248 (09/06-07/11) CIDAR: Translational Research to Enhance Cognitive Control  
Role: PI of Project 2: Neurochemical and genetic determinants of impulsivity  
Total costs: \$1,041,637

RL1-MH083270 (09/07-06/12) Translational models of memory and cognitive control  
Role: PI  
Total costs: \$2,574,764

R03 MH069360 (09/12/03-02/28/05) Behavioral model of contextual attention in the monkey  
Role: PI  
Total costs: \$74,227