

Curriculum Vitae

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ACADEMIC BACKGROUND, APPOINTMENTS, AND HONORS

EDUCATION

B.A.	Psychobiology	SUNY Purchase, Purchase, NY	1974-1978
Ph.D.	Psychology	Yale University, New Haven, CT	1980-1986

ACADEMIC APPOINTMENTS

Teaching Fellow	Yale University, New Haven, CT	1982-1985
Visiting Assistant Professor	Wheaton College, Norton, MA	1986-1987
Lecturer	Yale University	1986-1987
Associate Research Scientist	Yale University School of Medicine	1987-1992
Research Scientist	Yale University School of Medicine	1992-1995
Assistant Professor	Yale University School of Medicine	1995-2003
Research Scientist	Yale University School of Medicine	2003-2006
Instructor	Saint Thomas' Episcopal School, Houston	2007-2009
Associate Professor	Baylor College of Medicine, Houston	2006-2013
Professor	Baylor College of Medicine, Houston	2013-2014
Professor (Adjunct)	Baylor College of Medicine, Houston	2014-
Professor	University of Houston, Houston	2014-

HONORS AND AWARDS

New York State Regents Scholarship	1974-1978
Honors Graduate, SUNY at Purchase	1978
Yale University Fellowship	1980-1984
Sigma Xi, Science Honor Society	1982
Committee for the Problems of Drug Dependence Travel Fellowship	1989
BIRCWH Scholar, Yale IWHR Scholar Program on Women and Drug Abuse	2001-2006
Women and Gender Resource Center Distinguished Faculty Scholarship Award	2015

TEACHING

COURSES

Laboratory in Biopsychology (Undergraduate), Department of Biology, Wheaton College, Norton, MA, 1986
Research Methods in Psychobiology (Undergraduate), Yale University, Department of Psychology, 1986; 1988
Advanced Placement Psychology (certified by The College Board), St. Thomas' Episcopal School, Houston TX, 2007-2009
Principles of Learning and Behavior (Undergraduate), University of Houston, Department of Psychology, 2014
Physiological Psychology (Undergraduate), University of Houston, Department of Psychology, 2014; 2015
Psychopharmacology (Graduate), University of Houston, Department of Psychology, 2015

LECTURES

Experimental Research in Substance Abuse, Yale University, Department of Psychiatry, New Haven CT
Neurobiology of Drug Addiction, Yale University School of Medicine
Experimental Psychology, Department of Psychology, Quinnipiac University, Hamden CT
Physiological Psychology, Department of Psychology, Sacred Heart University, Fairfield CT
Addiction Psychiatry, Department of Psychiatry, Yale University School of Medicine
Biobehavioral research methods in cancer prevention and addiction, MD Anderson Cancer Center, Houston TX
Perinatal Stress and Neurodevelopmental Disorders, Current Topics in the Neurobiology of Disease, "Stress and the Brain", UTHealth Neuroscience Research Center, Houston TX.

ADVISEES

Undergraduate students

Peter S. Vosler, B.S. thesis advisor, Quinnipiac University, Hamden, CT, 1999-2000 (first prize, Allyn & Bacon award for undergraduate research from Psi Chi)
Tashi King, B.S. Advisor, Interdisciplinary Research Scholar, Quinnipiac University, 2000
Adriane Myers, B.A. Advisor, Research fellowship, Sacred Heart University, Fairfield, CT, 2001 (first prize for Research at Sacred Heart University)
Todd Barretta, B.S. Advisor, Interdisciplinary Research Scholar, Quinnipiac University, 2001
William Webb, B.S. Summer Medical and Research Training Program Baylor College of Medicine, Houston, TX, 2010

Masters' and medical school students

Hayde Sanchez, B.A. Masters' neuroscience research independent study, Trinity College, Hartford, CT, 2001
David W. Marby, M.D. Medical thesis, Yale School of Medicine, New Haven, CT, 1991-1993
Alyson Yarnall, Masters' thesis committee member, Baylor College of Medicine, 2010-2011

Ph.D. students

Colin N. Haile, Ph.D. Ph.D. thesis advisor, 1996-1999 (graduated with honors; NIDA travel awardee).
Hongjo Joanne Lee, Ph.D. dissertation committee, Department of Psychology, Yale University, 2001-2002.
David Karanian, Ph.D. dissertation committee, Department of Pharmacology, University of Connecticut, Storrs, CT, 2001-2005.
Katherine Carlson, dissertation committee, Department of Pharmacology and Toxicology, Louisiana State University Health Sciences Center, Shreveport, LA, 2004-2006.
Edwin Alexander, M.S., dissertation committee, Baylor College of Medicine, 2012-2013
Erika Perez, Ph.D. dissertation committee, Baylor College of Medicine, 2011-2013
Steven Nieto, graduate student, advisor, Department of Psychology, University of Houston, 2014-
Jessica Wooden, dissertation committee member, Department of Psychology, University of Houston, 2015-
Emily Barton, dissertation committee member, Department of Psychology, University of Houston, 2015-

Post-doctoral fellows and research faculty

Mindy J.D. Miserendino, Ph.D. Research affiliate, Yale School of Medicine, 2000-2004
Joan C. Bombace, Ph.D. Research affiliate, Yale School of Medicine, 2001-2005
Xiang Yang Zhang, M.D., Ph.D., post-doctoral associate, Yale School of Medicine, 2002-2004 (NIDA travel award recipient)
Colin N. Haile, Ph.D., post-doctoral associate, Yale School of Medicine; Baylor College of Medicine, 2005-2009
Carrol D'Sa, Ph.D., Research affiliate, Yale School of Medicine, 2006
Xiaojun Xiang, M.D., Ph.D., post-doctoral associate, Baylor College of Medicine, 2009-2010
Yaoling Hao, M.D., Ph.D., post-doctoral associate, Baylor College of Medicine, 2010-2011
Odochi Nwoko, post-doctoral associate supervisor, Department of Psychology, University of Houston, 2015-

ACADEMIC SCHOLARSHIP/RESEARCH ACTIVITIES/INTELLECTUAL CONTRIBUTIONS

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

Society for Neurosciences

Research Society on Alcoholism

International Society for Developmental Psychobiology

College on the Problems of Drug Dependence

Texas Research Society on Alcoholism

INVITED TALKS

Local

Early life stress has sex-specific effects on addiction and memory processes in rats. Psychiatry Grand Rounds, University of Texas Health Sciences Houston TX, January 2008.

Early life stress has sex-specific effects on addiction and memory processes in rats. Department of Psychology, University of Houston, October 2009.

Nature-nurture revisited: addiction and affiliation in animals. Grand Rounds, Menninger Department of Psychiatry and Behavioral Sciences, Baylor College of Medicine, October 2011.

Vaccines for Methamphetamine Abuse. Research Seminar Series, Michael E. DeBakey Veteran's Affairs Medical Center, July 2012.

Epigenetic Modifications with Early Life Manipulations. Biology of Behavior Institute Brown Bag series, University of Houston, November 2015.

Epigenetic Modifications with Early Life Manipulations. Health and Human Performance Brown Bag series, University of Houston, November 2015.

National

Gender differences among cocaine abusers. American Psychiatric Association, New York City, 1990.

Gender differences among cocaine abusers. American Psychiatric Association, Washington, DC, 1992.

The role of glycine agents on naloxone-precipitated withdrawal in rats. National Institute on Drug Abuse Technical Review, Rockville, MD, October 1994.

Animal models of drug addiction: Inbred strain differences and the implications for treatment. Capital District Drug Abuse Seminar Series, Albany, NY, April 1996.

Animal models of drug addiction: Inbred strain differences and the implications for treatment. Pfizer Pharmaceuticals, Groton CT, March 1997.

Corticosterone levels and the behavioral effects of cocaine, Quinnipiac College, Hamden, CT, September 1999.

Baseline corticosterone levels and the behavioral effects of cocaine. LHPA Axis in Psychiatric Disorders. National Institute on Drug Abuse Symposium, Bethesda, MD, September 1999.

Corticosterone Levels and the Behavioral Effects of Cocaine: Relationship or Red Herring? Behavioral Neuroscience Laboratory, University of Hawaii at Manoa, February 2000.

Dopaminergic correlates of genetic influences on vulnerability to cocaine addiction: studies in Lewis and Fischer 344 inbred rats. 1st Annual Meeting on Reward deficiency syndrome: Genetic antecedents and clinical pathways. San Francisco, CA, November 2000.

Lewis and Fischer 344 inbred rats: Different models of drug addiction. ADARC Seminar, Mclean Hospital, Harvard University, January 2001.

Genetic and environmental influences on cocaine addiction: studies in Lewis, Fischer 344, and Sprague-Dawley rats. Pharmacology Department Seminar presentation, Virginia Commonwealth University, August 2001.

Genetic and environmental influences on cocaine addiction: studies in Lewis, Fischer 344, and Sprague-Dawley rats. Center for Molecular and Behavioral Neuroscience Colloquium, Rutgers University, December 2001.

Early life stress alters addiction vulnerability in rats of both sexes. Transdisciplinary Tobacco Use Research Center, University of California, Irvine, April 2003.

Early life stress alters addiction vulnerability in rats of both sexes. Pharmacology and Toxicology Seminar Series, University of Arkansas Medical School, Little Rock, AR, August 2003.

Immediate and enduring neurochemical and behavioral effects of neonatal isolation stress in male and female rats. Department of Pharmacology and Therapeutics, Louisiana State University Health Sciences Center, Shreveport, LA, May 2004.

Immediate and enduring neurochemical and behavioral effects of neonatal isolation stress in male and female rats. Women's Health Research at Yale University, New Haven, CT, July 2004.

Behavioral and neurochemical effects of neonatal stress in rats". Invited talk for Conference on "Risk, Resilience and Recovery: The Interface of Behavioral Neuroscience and Genetic and Neuroimaging Studies in Human Populations. Yale Child Study Center, New Haven, CT, March 2005.

Neonatal isolation stress in rats and increased vulnerability to addiction". Symposium on "The Impact of Early Life Stress on Behavior. Center for Behavioral Neuroscience at Georgia State University and the Atlanta Chapter for the Society of Neuroscience, Atlanta GA, May 2005.

Neonatal isolation as a model of stress and its effects on drugs in adulthood. Symposium speaker, American Society of Pharmacology and Experimental Therapeutics, Washington DC, April 2007.

Early life stress has sex-specific effects on addiction and memory processes in rats. SCOR Addiction Seminar Series, Medical University of South Carolina, Charleston SC, November 2007.

Early life stress has sex-specific effects on addiction and memory processes in rats. Neurobiology Seminar Series, University of Texas, San Antonio TX, February 2009.

Nature-nurture revisited: addiction and affiliation in animals. Texas Christian University, Fort Worth, TX, April 2012.

International

Neuropharmacology of opiate dependence: guide for new treatment agents. Second PanHellenic Conference on Drug Abuse, Thessalininki Greece, May 1995.

Neurobehavioral characteristics of Lewis and Fischer 344 rats as a model of drug abuse. Medical University of the Americas, Ambegris Caye, Belize, February 2003.

Immediate and enduring neurochemical and behavioral effects of neonatal isolation stress in male and female rats. Department of Psychobiology, Universidad Nacional de Educacion a Distancia, Madrid, Spain, April 2004.

Everything old is new again: Role of norepinephrine in psychostimulant reward. Symposium speaker, World Psychiatric Association Meeting, Saint-Petersburg Russia, June 2010.

SELECT PUBLICATIONS

Peer-reviewed original articles

Kosten TA, Schulkin J. Impairments in saline intake induced by deposit-free electrolyte lesions in the thalamic gustatory area. *Brain Research Bulletin* 4: 675-677, 1979.

Marini JL, Sheard MH, Kosten TA. Study of the role of serotonin in lithium action using shock-elicited fighting. *Communications in Psychopharmacology*, 3: 225-233, 1979.

Contreras RJ, Kosten TA. Changes in salt intake after abdominal vagotomy: Evidence for hepatic sodium receptors. *Physiology and Behavior* 26: 575-582, 1981.

Contreras RJ, Kosten TA. Prenatal and early postnatal sodium chloride intake modifies the solution preference of adult rats. *Journal of Nutrition* 113: 1051-1062, 1983.

Kosten TA, Contreras RJ, Stetson PW, Ernest MJ. Enhanced saline intake and decreased heart rate after area postrema ablations in rat. *Physiology and Behavior* 31: 777-785, 1983.

Contreras RJ, Kosten TA, Frank M. Activity in salt taste fibers: Peripheral mechanisms for mediating changes in salt intake. *Chemical Senses* 8: 275-288, 1984.

Contreras RJ, Kosten TA, Bird E. Area postrema: Part of the autonomic circuitry of caloric homeostasis. *Federation Proceedings* 43: 2966-2969, 1984.

Kosten TA, Contreras RJ. Adrenalectomy reduces peripheral neural responses to gustatory stimuli in the rat. *Behavioral Neuroscience* 99: 734-741, 1985.

Kosten TA, Contreras RJ. Deficits in conditioned heart rate and taste aversion in area postrema lesioned rats. *Behavioural Brain Research*, 35: 9-21, 1989.

- Kosten TA, Jacobsen, LK, Kosten TR. Severity of precipitated opiate withdrawal predicts drug dependence by DSM-III-R criteria. *American Journal of Drug and Alcohol Abuse* 15: 237-250, 1989.
- Kosten TA, Kosten TR, Rounsaville BJ. Personality disorders in opiate addicts show prognostic specificity. *Journal of Substance Abuse Treatment*, 6: 163-168, 1989.
- Kosten TR, Morgan CM, Kosten TA. Depressive symptoms during buprenorphine treatment of opioid abusers. *Journal of Substance Abuse Treatment*, 7: 51-54, 1990.
- Kosten TA. Cocaine attenuates the severity of naloxone-precipitated opiate withdrawal. *Life Sciences*, 47: 1617-1623, 1990.
- Kosten TA, Kosten TR. Pharmacological blocking agents for treating substance abuse. *Journal of Nervous and Mental Diseases*, 179: 583-592, 1991.
- Kosten TR, Rounsaville BJ, Kosten TA, Merikangas K. Gender differences in the specificity of alcoholism transmission among the relatives of opioid addicts. *Journal of Nervous and Mental Diseases*, 179: 392-400, 1991.
- Kosten TA, Marby DA, Nestler EJ. Cocaine conditioned place preference is attenuated by chronic buprenorphine treatment. *Life Sciences*, 49: PL201-206, 1991.
- Kosten TR, Kosten TA, Rounsaville BJ. Alcoholism and depressive disorders in opioid addicts and their family members. *Comprehensive Psychiatry*, 32:521-527, 1991.
- Kosten TA, Bianchi MS, Kosten TR. The predictive validity of the dependence syndrome in opiate addicts. *American Journal of Drug and Alcohol Abuse*, 18: 145-156, 1992.
- Kosten TR, Gawin FH, Kosten TA, Morgan C, Rounsaville BJ, Schottenfeld R, Kleber HD. Six month follow-up of short term pharmacotherapy for cocaine dependence. *American Journal on Addictions*, 1: 40-49, 1992.
- Steinberg MA, Kosten TA, Rounsaville BJ. Cocaine abuse and pathological gambling. *American Journal on Addictions*, 1: 121-132, 1992.
- Kosten TA, Anton SF, Rounsaville BJ. Ascertaining psychiatric diagnoses with the family history method in a substance abuse population. *Journal of Psychiatric Research*, 26: 135-147, 1992.
- Kosten TA, Rounsaville BJ. Sensitivity of psychiatric diagnoses using best estimates. *American Journal of Psychiatry*, 149:1225-1227, 1992.
- Kosten TA, Kosten TR, Gawin FH, Gordon LT, Hogan IS, Kleber HD. An open trial of sertraline for cocaine abuse. *American Journal on Addictions*, 1:349-353, 1992.
- Guitart X, Beitner-Johnson D, Marby DW, Kosten TA, Nestler EJ. Fischer and Lewis rat strains differ in basal levels of neurofilament proteins and their regulation by chronic morphine in the mesolimbic dopamine system. *Synapse*, 12:242-253, 1992.
- Kosten TR, Silverman DG, Fleming J, Kosten TA, Gawin FH, Compton M, Jatlow P, Byck R. Intravenous cocaine challenges during naltrexone maintenance. *Biological Psychiatry* 32:543-548, 1992.
- Kosten TA, Gawin FH, Kosten TR, Rounsaville BJ. Gender differences in cocaine use and treatment response. *Journal of Substance Abuse Treatment*, 10:63-66, 1993.
- Kosten TA, Ball SA, Rounsaville BJ. A sibling study of sensation-seeking and opiate addiction. *Journal of Nervous and Mental Diseases*, 182:284-290, 1994.
- Kosten TA. Clonidine attenuates conditioned place aversion produced by naloxone-precipitated opioid withdrawal in rats. *European Journal of Pharmacology*, 254:59-63, 1994.
- Kosten TA, Miserendino MJD, Chi S, Nestler EJ. Fischer and Lewis rat strains show differential cocaine effects in conditioned place preference and behavioral sensitization, but not in locomotor activity or conditioned taste aversion. *Journal of Pharmacology and Experimental Therapeutics*, 269:137-144, 1994.
- Kosten TA, Nestler EJ. Clozapine attenuates cocaine conditioned place preference. *Life Sciences*, 55:PL9-PL14, 1994.
- Ortiz J, DeCaprio JL, Kosten TA, Nestler EJ. Strain-selective effects of corticosterone on locomotor sensitization to cocaine and on ventral tegmental area levels of tyrosine hydroxylase and glucocorticoid receptor. *Neuroscience*, 67:383-397, 1995.
- Kosten TA, DeCaprio JL, Rosen MA. The severity of naloxone-precipitated opiate withdrawal is attenuated by felbamate, a possible glycine antagonist. *Neuropsychopharmacology*, 13:323-333, 1995.

- Kosten TR, Kosten TA, McDougle CJ, Hameedi FA, Rosen MI, Oliveto AH, Price LH. Gender differences in response to intranasal cocaine administration. *Biological Psychiatry*, 39:147-148, 1996.
- Kosten TA, DeCaprio JL, Nestler EJ. Long-term haloperidol administration enhances and short-term administration attenuates the behavioral effects of cocaine in a place conditioning procedure. *Psychopharmacology*, 128:304-312, 1996.
- Kosten TA. Enhanced neurobehavioral effects of cocaine with chronic neuroleptic exposure in rats. *Schizophrenia Bulletin*, 23:203-213, 1997.
- Shoemaker WJ, Kosten TA, Muly S. Ethanol attenuation of morphine dependence: comparison to dizocilpine. *Psychopharmacology*, 134:83-87, 1997.
- Kosten TA, Miserendino MJD, Haile CN, DeCaprio JL, Jatlow PI, Nestler EJ. Acquisition and maintenance of intravenous cocaine self-administration in Lewis and Fischer inbred rat strains. *Brain Research*, 778:418-429, 1997.
- Oliveto AH, Rosen MI, Kosten TA, Hameedi FA, Woods SW, Kosten TR. Hydromorphone-naloxone combinations in opioid-dependent humans under a novel-response discrimination procedure. *Experimental and Clinical Psychopharmacology*, 6:169-178, 1998.
- Kosten TA, Miserendino MJD. Dissociation of novelty- and cocaine-conditioned locomotor activity from cocaine place conditioning. *Pharmacology, Biochemistry and Behavior*, 60:785-791, 1998.
- Brodkin ES, Carlezon WA Jr, Haile CN, Kosten TA, Heninger GR, Nestler EJ. Genetic analysis of behavioral, neuroendocrine, and biochemical parameters in inbred rodents: initial studies in Lewis and Fischer 344 rats and in A/J and C57/BL/6J mice. *Brain Research*, 805:55-68, 1998.
- Brodkin ES, Kosten TA, Haile CN, Heninger GR, Carlezon WA, Jr, Jatlow, PI, Remmers EF, Wilder RL, Nestler EJ. Dark Agouti and Fischer 344 rats: differential behavioral responses to morphine and biochemical differences in the ventral tegmental area. *Neuroscience*, 88:1307-1315, 1998.
- Kosten TA, Haile CN, Jatlow PI. Naltrexone and morphine alter the discrimination and plasma levels of ethanol. *Behavioural Pharmacology*, 10:1-13, 1999.
- Carlezon WA Jr, Kosten TA, Nestler EJ. Behavioral interactions caused by combined administration of morphine and MK-801. *Psychopharmacology*, 151:261-272, 2000.
- Kosten TA, Miserendino MJD, Kehoe P. Enhanced acquisition of cocaine self-administration in adult rats with neonatal isolation stress experience. *Brain Research*, 875:44-50, 2000.
- Kosten TA, Bombace JC. Prior and delayed applications of dizocilpine or ethanol alter locomotor sensitization to morphine. *Brain Research*, 878:20-31, 2000.
- Haile CN, GrandPre TL, Kosten TA. Chronic unpredictable stress, but not chronic predictable stress, enhances the sensitivity to the behavioral effects of cocaine in rats. *Psychopharmacology*, 154:213-220, 2001.
- Kosten TA, Haile CN. Dopaminergic correlates of genetic influences on vulnerability to cocaine addiction: studies in Lewis and Fischer 344 inbred rats. *Molecular Psychiatry*, 6:S5, 2001.
- Haile CN, Hiroi N, Nestler EJ, Kosten TA. Differential behavioral responses to cocaine are associated with dynamics of mesolimbic dopamine proteins in Lewis and Fischer 344 rats. *Synapse*, 41:179-190, 2001.
- Kosten TA, Bombace JC. Ethanol enhances naloxone sensitization and disrupts morphine discrimination - comparison to dizocilpine and pentobarbital: explanations of enhancing acute and attenuating chronic effects. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*, 25:1283-1306, 2001.
- Vosler PS, Bombace JC, Kosten TA. A discriminative two-lever test of dizocilpine's ability to reinstate ethanol-seeking behavior. *Life Sciences*, 69:591-598, 2001.
- McCance-Katz EF, Kosten TA, Kosten TR. Going from the bedside back to the bench with ecopipam: a new strategy for cocaine pharmacotherapy development. *Psychopharmacology*, 155:327-329, 2001.
- Haile CN, Kosten TA. Differential effects of D1- and D2-like compounds on cocaine self-administration in Lewis and Fischer 344 inbred rats. *Journal of Pharmacology and Experimental Therapeutics*, 299:509-518, 2001.
- Kosten TA, Ambrosio E. HPA axis function and drug addictive behaviors: Insights from studies with Lewis and Fischer 344 inbred rats. *Psychoneuroendocrinology*, 27:35-69, 2002.
- Kosten TR, George TP, Kosten TA. The potential of dopamine agonists in drug addiction. *Expert Opinion on Investigational Drugs*, 11:491-499, 2002.

- Kosten TA, Zhang XY, Kehoe P. Chronic neonatal isolation stress enhances cocaine-induced increases in ventral striatal dopamine levels in rat pups. *Developmental Brain Research*, 141:109-116, 2003.
- Miserendino MJD, Haile CN, Kosten TA. Strain differences in response to escapable and inescapable novel environments and their ability to predict amphetamine-induced locomotor activity. *Psychopharmacology*, 167:281-290, 2003.
- Haile CN, During MJ, Jatlow PI, Kosten TR, Kosten TA. Disulfiram facilitates the development and expression of locomotor sensitization to cocaine in rats. *Biological Psychiatry*, 54:915-921, 2003.
- Kosten TA, Sanchez H, Zhang XY, Kehoe P. Neonatal isolation enhances acquisition of cocaine self-administration and food responding in female rats. *Behavioural Brain Research*, 151:137-149, 2004
- Kosten TA, Zhang X-Y, Kehoe P. Infant rats with chronic neonatal isolation experience show decreased extracellular serotonin levels in ventral striatum at baseline and in response to cocaine. *Developmental Brain Research*, 152:19-24, 2004.
- Kosten TR, Kosten TA. New medication strategies for comorbid substance use and major psychiatric disorders. *Biological Psychiatry*, 56:771-777, 2004
- Zhang XY, Sanchez H, Kehoe P, Kosten TA. Neonatal isolation enhances maintenance but not reinstatement of cocaine self-administration in adult male rats. *Psychopharmacology*, 177:391-399, 2005.
- Kosten TA, Miserendino MJD, Bombace JC, Lee HJ, Kim JJ. Sex-selective effects of neonatal isolation on fear conditioning and foot shock sensitivity. *Behavioural Brain Research*, 157: 235-244, 2005.
- Zhang XY, Kosten TA. Prazosin, an α -1 adrenergic antagonist, reduces cocaine-induced reinstatement of drug-seeking. *Biological Psychiatry*, 57:1202-1204, 2005.
- Kosten TA, Sanchez H, Jatlow PI, Kehoe P. Neonatal isolation alters estrous cycle interaction on acute behavioral effects of cocaine. *Psychoneuroendocrinology*, 30:753-761, 2005.
- Kosten TA, Zhang X-Y, Kehoe P. Neurochemical and behavioral responses to cocaine in adult male rats with neonatal isolation experience. *Journal of Pharmacology and Experimental Therapeutics*, 314:661-667, 2005.
- Karanian DA, Brown QB, Makriyannis, A, Kosten TA, Bahr BA. Dual modulation of endocannabinoid transport and fatty-acid amide hydrolase protects against excitotoxicity. *Journal of Neuroscience*, 25:7813-7820, 2005.
- Haile CN, Zhang X-Y, Carroll FI, Kosten TA. Cocaine self-administration and locomotor activity are altered in Lewis and F344 inbred rats by RTI 336, a 3-phenyltropane analog that binds to the dopamine transporter. *Brain Research*, 1055:186-195, 2005.
- Kosten TA, Kehoe P. Neonatal isolation is a relevant model for studying the contributions of early life stress to vulnerability to drug abuse: response to Marmendal et al 2004. *Developmental Psychobiology*, 47:108-110, 2005.
- Kosten TA, Zhang X-Y, Kehoe P. Heightened cocaine and food self-administration in female rats with neonatal isolation experience. *Neuropsychopharmacology*, 31, 70-76, 2006.
- Kim JJ, Song EY, Kosten TA. Stress effects in the hippocampus: synaptic plasticity and memory. *Stress*, 9:1-11, 2006.
- Zhang X-Y, Kehoe P, Kosten TA. Neonatal isolation alters estrous cycle effects on ventral striatal extracellular monoamine levels. *Progress in Neuropsychopharmacology & Biological Psychiatry*, 30:504-511, 2006.
- Kosten TA, Lee HJ, Kim JJ. Early life stress impairs fear conditioning in adult male and female rats. *Brain Research*, 1087:142-150, 2006.
- Zhang XY, Tan YL, Zhou DF, Cao LY, Wu GY, Xu Q, Shen Y, Haile CN, Kosten TA, Kosten TR. Serum BDNF levels and weight gain in schizophrenic patients on long-term treatment with antipsychotics. *Journal of Psychiatric Research*. 41:997-1004, 2006.
- Haile CN, Kosten TR, Kosten TA. Genetics of dopamine and its contribution to cocaine addiction. *Behavioral Genetics*, 37:119-145, 2007.
- Guo S, Chen da F, Zhou DF, Sun HQ, Wu GY, Haile CN, Kosten TA, Kosten TR, Zhang XY. Association of functional catechol O-methyl transferase (COMT) Val108Met polymorphism with smoking severity and age of smoking initiation in Chinese male smokers. *Psychopharmacology*, 190:449-56, 2007.
- Zhang X-Y, Kosten TA. Previous exposure to cocaine enhances cocaine self-administration in an alpha-1 adrenergic receptor dependent manner. *Neuropsychopharmacology*. 32:638-645, 2007.

- Kosten TA, Zhang XY, Haile CN. Strain differences in maintenance of cocaine self-administration and their relationship to novelty activity responses. *Behavioral Neuroscience*, 121:380-388, 2007.
- Kosten TA, Lee HJ, Kim JJ. Neonatal handling alters learning in adult male and female rats in a task-specific manner. *Brain Research*, 1154:144-53, 2007.
- Zhang XY, Tan YL, Zhou DF, Cao LY, Wu GY, Haile CN, Kosten TA, Kosten TR. Disrupted antioxidant enzyme activity and elevated lipid peroxidation products in schizophrenic patients with tardive dyskinesia. *Journal of Clinical of Psychiatry*. 68:754-60, 2007.
- Zhang XY, Tan YL, Zhou DF, Haile CN, Cao LY, Xu Q, Shen Y, Kosten TA, Kosten TR. Association of clozapine-induced weight gain with a polymorphism in the leptin promoter region in patients with chronic schizophrenia in a Chinese population. *Journal of Clinical Psychopharmacology*. 27:246-51, 2007.
- Zhang XY, Tan YL, Zhou DF, Haile CN, Wu GY, Cao LY, Kosten TA, Kosten TR. Nicotine dependence, symptoms and oxidative stress in male patients with schizophrenia. *Neuropsychopharmacology*, 32:2020-2024, 2007.
- Kosten TA, Karanian DA, Yeh J, Haile CN, Kim JJ, Kehoe P, Bahr BA. Memory impairments and hippocampal modifications in adult rats with neonatal isolation stress experience. *Neurobiology of Learning and Memory*, 88:167-176, 2007.
- Wang ZR, Zhou DF, Cao LY, Tan YL, Li J, Lu L, Wu GY, Kosten TA, Kosten TR. Brain-derived neurotrophic factor polymorphisms and smoking in schizophrenia. *Schizophrenia Research*, 97:299-301, 2007.
- Kosten TA, Zhang XY. Sex differences in non-reinforced responding for cocaine. *American Journal on Drug and Alcohol Abuse*. 34:473-88, 2008.
- Haile CN, Kosten TA, Kosten TR. Pharmacogenetic treatments for drug addiction: alcohol and opiates. *American Journal of Drug and Alcohol Abuse*. 34:355-81, 2008.
- Kosten TA, Galloway MP, Duman RS, Russell DS, D'Sa C. Repeated unpredictable stress and antidepressants differentially regulate expression of the bcl-2 family of apoptotic genes in rat cortical, hippocampal, and limbic brain structures. *Neuropsychopharmacology*. 33:1545-58, 2008.
- Li W, Wei J, Zhou DF, Tan YL, Cao YL, Wu G, Kosten TA, Kosten TR, Zhang XY. Lack of association between the DBNF C270T polymorphism and schizophrenia in a Chinese population. *Schizophrenia Research*, 97:297-298, 2008.
- Wang F, Xiu MH, Zhou DF, Cao LY, Wu GY, Kosten TA, Kosten TR, Zhang XY. The CCR5 32-bp deletion allele is rare in a Chinese population. *Schizophrenia Research*. 101:341-3, 2008.
- Sun S, Wang F, Wei J, Cao LY, Qi LY, Xiu MH, Chen S, Li XH, Kosten TA, Kosten TR, Zhang XY. Association between interleukin-6 receptor polymorphism and patients with schizophrenia. *Schizophrenia Research*. 102:346-7, 2008.
- Sun S, Wang F, Wei J, Cao LY, Wu GY, Lu L, Kosten TA, Kosten TR, Zhang XY. Association between interleukin-3 receptor alpha polymorphism and schizophrenia in the Chinese population. *Neuroscience Letters*. 440:35-7, 2008.
- Zhang XY, Zhou DF, Wu GY, Cao LY, Tan YL, Haile CN, Li J, Lu L, Kosten TA, Kosten TR. BDNF levels and genotype are associated with antipsychotic-induced weight gain in patients with chronic schizophrenia. *Neuropsychopharmacology*, 33:2200-2205, 2008.
- Xiu MH, Chen S, Wang F, Cao LY, Qi LY, Chen DC, Wu GY, Lu L, Kosten TA, Kosten TR, Zhang XY. Altered interleukin-3 serum levels in drug-naïve and neuroleptic-treated schizophrenic patients. *Schizophrenia Research*, 106:369-70, 2008.
- Chen DC, Qi LY, Xiu MH, Cao LY, Wang F, Chen S, Wu GY, Kosten TA, Kosten TR, Zhang XY. Elevated serum levels of tumor necrosis factor-alpha in clozapine-associated obesity in chronic schizophrenia. *Schizophrenia Research*, 106:367-8, 2008.
- Zhang XY, Cao LY, Song C, Wu GY, Chen DC, Qi LY, Wang F, Xiu MH, Chen S, Zhang Y, Lu L, Kosten TA, Kosten TR. Lower serum cytokine levels in smokers than nonsmokers with chronic schizophrenia on long-term treatment with antipsychotics. *Psychopharmacology*, 201:383-9, 2008.
- Xiu MH, Chen S, Wang F, Cao LY, Qi LY, Chen DC, Wu GY, Lu L, Kosten TA, Kosten TR, Zhang XY. Altered interleukin-3 serum levels in drug-naïve and neuroleptic-treated schizophrenic patients. *Schizophrenia Research*, 106:369-370, 2008.

- Chen DC, Qi LY, Xiu MH, Cao LY, Wang F, Chen S, Wu GY, Kosten TA, Kosten TR, Zhang XY. Elevated serum levels of tumor necrosis factor-alpha in clozapine-associated obesity in chronic schizophrenia. *Schizophrenia Research*, 106:367-368, 2008.
- Li YQ, Wang XY, Zhai HF, Zheng YQ, Zhang XY, Kosten T, Lu L. Effects of early postnatal sibling deprivation on anxiety and vulnerability to cocaine in offspring rats. *Psychopharmacology*, 199:245-53, 2008.
- Zhang XY, Cao LY, Song C, Wu GY, Chen DC, Qi LY, Wang F, Xiu MH, Chen S, Zhang Y, Lu L, Kosten TA, Kosten TR. Lower serum cytokine levels in smokers than nonsmokers with chronic schizophrenia on long-term treatment with antipsychotics. *Psychopharmacology*, 201:383-389, 2008.
- Haile CN, Kosten TR, Kosten TA. Pharmacogenetic treatments for drug addiction: cocaine, amphetamine and methamphetamine. *American Journal of Drug and Alcohol Abuse*, 35:161-177, 2009.
- Zhang XY, Zhou DF, Qi LY, Chen S, Cao LY, Chen DC, Xiu MH, Wang F, Wu GY, Lu L, Kosten TA, Kosten TR. Superoxide dismutase and cytokines in chronic patients with schizophrenia: association with psychopathology and response to antipsychotics. *Psychopharmacology*, 204:177-184, 2009.
- Qiu HT, Meng HQ, Song C, Xiu MH, Chen da C, Zhu FY, Wu GY, Kosten TA, Kosten TR, Zhang XY. Association between monoamine oxidase (MAO)-A gene variants and schizophrenia in a Chinese population. *Brain Research*, 1287: 67-73, 2009.
- Zhang XY, Chen da C, Xiu MH, Wang F, Qi LY, Sun HQ, Chen S, He SC, Wu GY, Haile CN, Kosten TA, Lu L, Kosten TR. The novel oxidative stress marker thioredoxin is increased in first-episode schizophrenic patients. *Schizophrenia Research*, 113:151-7, 2009.
- Qi LY, Xiu MH, Chen da C, Wang F, Kosten TA, Kosten TR, Zhang XY. Increased serum S100B levels in chronic schizophrenic patients on long-term clozapine or typical antipsychotics. *Neuroscience Letters*. 462:113-7, 2009.
- Zhang XY, Chen da C, Qi LY, Wang F, Xiu MH, Chen S, Wu GY, Kosten TA, Kosten TR. Gender differences in the prevalence, risk and clinical correlates of tardive dyskinesia in Chinese schizophrenia. *Psychopharmacology*, 205:647-54, 2009.
- Kosten TA, Kehoe P. Immediate and enduring effects of neonatal isolation on maternal behavior in rats. *International Journal of Developmental Neuroscience*, 28: 53-61, 2010.
- Zhang XY, Xiu MH, Chen da C, Zhu FY, Wu GY, Haile CN, Lu L, Kosten TA, Kosten TR. Increased S100B serum levels in schizophrenic patients with tardive dyskinesia: association with dyskinetic movements. *Journal of Psychiatric Research*, 44: 429-33, 2010.
- Zhang XY, Xiu MH, Song C, Chen da C, Wu GY, Haile CN, Kosten TA, Kosten TR. Increased serum S100B in never-medicated and medicated schizophrenic patients. *Journal of Psychiatric Research*, 44:1236-40, 2010.
- Zhang XY, Xiu MH, Chen da C, Yang FD, Wu GY, Lu L, Kosten TA, Kosten TR. Nicotine dependence and serum BDNF levels in male patients with schizophrenia. *Psychopharmacology*. 212:301-307, 2010.
- Zhang XY, Yu YQ, Sun S, Zhang X, Li W, Xiu MH, Chen da C, Yang FD, Zhu F, Kosten TA, Kosten TR. Smoking and tardive dyskinesia in male patients with chronic schizophrenia. *Progress in Neuropsychopharmacology and Biological Psychiatry*. 35:1765-9, 2011.
- Kosten TA. Pharmacologically targeting the P2rx4 gene on maintenance and reinstatement of alcohol self-administration in rats. *Pharmacology Biochemistry and Behavior*, 98: 533-538. 2011.
- Xiang, X, Huang, W, Haile, CN, Kosten TA. Hippocampal GluR1 associates with behavior in the elevated plus maze and shows sex differences. *Behavioural Brain Research*, 222: 326-331, 2011.
- Xiang, X, Hao Y, Kosten TA. Sex difference in performance in elevated plus maze and hippocampal GluR1 level. *Zhong Nan Da Xue Xue Bao Yi Xue Ban* (Journal of Central South University, Medical Sciences), 36:750-753, 2011 (Chinese).
- Hao Y, Huang W, Nielsen DA, Kosten TA. Litter gender composition and sex affect maternal behavior and DNA methylation levels of the *Oprm1* gene in rat offspring. *Frontiers in Child and Neurodevelopmental Psychiatry*, 2:21, 2011.
- Zhang XY, Liu L, Liu S, Hong X, Chen da C, Xiu MH, Yang FD, Zhang ZI, Zhang X, Kosten TA, Kosten TR. Short-term tropisetron treatment and cognitive and p50 auditory gating deficits in schizophrenia. *American Journal of Psychiatry*, 169:974-81, 2012.

- Zhang XY, Chen da C, Xiu MH, Yang FD, Haile CN, Kosten TA, Kosten TR. Gender differences in never-medicated first-episode schizophrenia and medicated chronic schizophrenia patients. *Journal of Clinical Psychiatry*. 73:1025-33, 2012.
- Zhang XY, Zhang WF, Zhou DF, Chen da C, Xiu MH, Wu HR, Haile CN, Kosten TA, Kosten TR. Brain-derived neurotrophic factor levels and its val66met gene polymorphism predict tardive dyskinesia treatment response to ginkgo biloba. *Biological Psychiatry*. 72:700-6, 2012.
- Zhang XY, Chen da C, Xiu MH, Tang W, Zhang F, Liu L, Chen Y, Liu J, Yao JK, Kosten TA, Kosten TR. Plasma total antioxidant status and cognitive impairments in schizophrenia. *Schizophrenia Research*. 139:66-72, 2012.
- Zhang XY, Chen da C, Xiu MH, Haile CN, Sun H, Lu L, Kosten TA, Kosten TR. Cigarette smoking and cognitive function in Chinese male schizophrenia: a case-control study. *PLoS One*. 7(5):e36563, 2012.
- Zhang XY, Liang J, Chen da C, Xiu MH, He J, Cheng W, Wu Z, Yang FD, Haile CN, Sun H, Lu L, Kosten TA, Kosten TR. Cigarette smoking in male patients with chronic schizophrenia in a Chinese population: prevalence and relationship to clinical phenotypes. *PLoS One*, 7(2):e30937, 2012.
- Zhang XY, Liang J, Chen da C, Xiu MH, Yang FD, Kosten TA, Kosten TR. Low BDNF is associated with cognitive impairment in chronic patients with schizophrenia. *Psychopharmacology*. 222:277-84, 2012.
- Zhang XY, Zhou DF, Shen YC, Zhang PY, Zhang WF, Liang J, Chen da C, Xiu MH, Kosten TA, Kosten TR. Effects of risperidone and haloperidol on superoxide dismutase and nitric oxide in schizophrenia. *Neuropharmacology*. 62:1928-34, 2012.
- Zhang XY, Chen da C, Xiu MH, Haile CN, Luo X, Xu K, Zhang HP, Zuo L, Zhang Z, Zhang X, Kosten TA, Kosten TR. Cognitive and serum BDNF correlates of BDNF Val66Met gene polymorphism in patients with schizophrenia and normal controls. *Human Genetics*. 131:1187-95, 2012.
- Zhang XY, Chen da C, Xiu MH, Hui L, Liu H, Luo X, Zuo L, Zhang H, Kosten TA, Kosten TR. Association of functional dopamine-beta-hydroxylase (DBH) 19bp insertion/deletion polymorphism with smoking severity in male schizophrenic smokers. *Schizophrenia Research*. 141:48-53, 2012.
- Kosten TA, Miserendino MJD. Stress alters the discriminative stimulus and response rate effects of cocaine differentially in Lewis and Fischer inbred rats. *Behavioral Sciences*, 2:23-37, 2012.
- Kosten TA, Kim JJ, Lee HJ. Early life manipulations alter learning and memory in rats. *Neuroscience and Biobehavioral Reviews*, 36:1985-2006, 2012.
- Singh RAK, Kosten TA, Kinsey BM, Shen, X, Lopez AY, Kosten TR, Orson, FM. Dose-dependent changes in the locomotor responses to methamphetamine in BALB/c mice: Low doses induce hypolocomotion. *Pharmacology, Biochemistry and Behavior*, 103:230-236, 2012.
- Haile CN, Hao, Y, O'Malley PW, Newton TF, Kosten TA. The $\alpha 1$ antagonist doxazosin alters the behavioral effects of cocaine in rats. *Brain Sciences*, 2: 619-633, 2012.
- Zhang XY, Chen da C, Xiu MH, Luo X, Zuo L, Haile CN, Kosten TA, Kosten TR. BDNF Val66Met variant and smoking in a Chinese population. *PLoS One*. 7(12):e53295, 2012.
- Liu H, Kang Y, Liang J, Li C, Xiu M, Chen D, Yang F, Wang F, Wu G, Haile CN, Kosten TA, Kosten TR, Zhang XY. Lower serum interleukin-2 levels in schizophrenic patients with tardive dyskinesia. *Psychiatry Research*, 30;198(2):329-31, 2012.
- Zhang XY, Chen DC, Xiu MH, Haile CN, He SC, Luo X, Zuo L, Rosenheck R, Kosten TA, Kosten TR. Cigarette smoking, psychopathology and cognitive function in first-episode drug-naïve patients with schizophrenia: a case-control study. *Psychological Medicine*, 13:1-10, 2012.
- Zhang XY, Chen da C, Xiu MH, Yang FD, Tan YL, He S, Kosten TA, Kosten TR. Thioredoxin, a novel oxidative stress marker and cognitive performance in chronic and medicated schizophrenia versus healthy controls. *Schizophrenia Research*, 143(2-3):301-6, 2013.
- Shen XY*, Kosten TA*, Lopez AY, Kinsey BM, Kosten TR, Orson, FM. A vaccine against methamphetamine attenuates its behavioral effects in mice. *Drug and Alcohol Dependence*, 129:41-48, 2013. *co-1st authors.
- Kosten TA, Meisch RA. Predicting extinction and reinstatement of alcohol and sucrose self-administration in outbred rats. *Experimental and Clinical Psychopharmacology*, 21:245-251, 2013.
- Kosten TA, Shen XY, O'Malley PW, Kinsey BM, Lykissa ED, Orson FM, Kosten TR. A morphine conjugate vaccine attenuates the behavioral effects of morphine in rats. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*, 45:223-229, 2013.

- Kosten TA, Huang W, Nielsen DA. Sex and litter effects on anxiety and DNA methylation levels of stress and neurotrophin genes in adolescent rats. *Developmental Psychobiology*, 56: 392–406, 2014.
- Kosten TA, Nielsen DA. Litter and sex effects on maternal behavior and DNA methylation of the *Nr3c1* exon17 promoter gene in hippocampus and cerebellum. *International Journal of Developmental Neuroscience*, 36:5-12, 2014.
- Zhang XY, Chen DC, Xiu MH, Yang FD, Tan Y, Luo X, Zuo L, Kosten TA, Kosten TR. Cognitive function, plasma MnSOD activity, and MnSOD Ala-9Val polymorphism in patients with schizophrenia and normal controls. *Schizophrenia Bulletin*, 40(3):592-601, 2014.
- Kosten TA, Shen XY, Kinsey BM, Kosten TR, Orson FM. Attenuation of cocaine-induced locomotor activity in male and female mice by active immunization. *American Journal of Addictions*, 23(6):604-607, 2014.
- Helms CM, Bell RL, Bennett AJ, Davies DL, Chester JA, Kosten TA, Leeman RF, Panicker S, Platt DM, Weiner JL, Edwards S. The importance of animals in advancing research on alcohol use disorders. *Alcoholism: Clinical and Experimental Research*, 39(4):575-578, 2015.
- Gomez, JL, Cunningham CL, Finn DA, Young EA, Helpenstell LK, Schuette LM, Fidler TL, Kosten TA, Ryabinin AE. Differential effects of ghrelin antagonists on alcohol drinking and reinforcement in mouse and rat models of alcohol dependence. *Neuropharmacology*, 97:182-93, 2015.
- Haile CN, Kosten TA, Shen XY, O'Malley PW, Winoske KJ, Kinsey BM, Wu Y, Huang Z, Lykissa ED, Naidu N, Cox JA, Arora R, Kosten TR, Orson FM. Altered methamphetamine place conditioning in mice vaccinated with a succinyl-methamphetamine-tetanus-toxoid vaccine. *American Journal on Addictions*, in press.

Chapters

- Contreras RJ, Stetson PW, Kosten TA. Lesion-produced changes in salt intake: Interdependence between the area postrema and the nucleus of the solitary tract in rats. *Olfaction & Taste VII*, 1981.
- Contreras RJ, Kosten TA. Peripheral gustatory mechanisms of salt intake in the rat. In deCaro G & Epstein A (Eds), *Physiology of Thirst and Sodium Appetite*, New York: Plenum Press, 1986.
- Kosten TR, Kosten TA. A review of the statistical computer programs Allocate and Tadpole. *Journal of the American Medical Association* 256: 2602-2603, 1986.
- Kosten TA, Kosten TR. Cocaine abuse and opioid withdrawal. *Lancet* [letter] 2(8655): 165-166, 1989.
- Kosten TA, Kosten, TR. The dependence syndrome concept as applied to alcohol and other substances of abuse. In Galanter, M, et al (Eds), *Recent Developments in Alcoholism*, Vol. 8, New York: Plenum Press, 47-68, 1990.
- Kosten TA, Kosten TR. Criteria for diagnoses. In Miller NS (Ed.), *A Handbook of Drug and Alcohol Addiction*, New York: Marcel Dekker, pp. 263-283, 1991.
- Margolin A, Kosten TR, Petrakis I, Avants SK, Kosten TA. Bupropion reduces cocaine abuse in methadone maintained patients. *Archives for General Psychiatry*, [letter] 48: 87, 1991.
- Kosten TA. Animal models for cocaine abuse. In TR Kosten & HD Kleber (Eds.) *Clinician's Guide to Cocaine Cocaine Addiction*, New York: Guilford Press, 84-108, 1992.
- Ball SA, Kosten TA. Diagnostic Systems. In: NS Miller, Ed., *Principles of Addiction Medicine*, Chicago: American Society of Addiction Medicine, 1994.
- Kosten TA. Behavioral models of opiate abuse in animals. In: SS Stine & TR Kosten, Eds., *New Treatments for Opiate Dependence*, New York: Guilford Press, 15-33. 1997.
- Kosten TA, Kosten TR. The drug dependence syndrome. In: EE Bittar & N Bittar, Eds., *Principles of Medical Biology*, Vol. 8C; Molecular and Cellular Pharmacology; Greenwich, CT: JAI Press, pp. 995-1002, 1997.
- Ball SA, Kosten TA. Diagnostic Systems. In: AW Graham, TK Schultz, Eds., *Principles of Addiction Medicine*, 2nd Edition, Chevy Chase MD: American Society of Addiction Medicine, Inc, pp. 279-290, 1998.
- Kosten TA, Kehoe P. Early life stress and vulnerability to addiction. In: M al'Absi, Ed., *Stress and Addiction: Biological and Psychological Mechanisms*, Elsevier Press, San Diego, pp. 105-126, 2007.
- Kosten TA, Nielsen DA. Maternal epigenetic inheritance and stress during gestation: focus on brain and behavioral disorders. In: TO Trygve, Ed., *Transgenerational Epigenetics: Evidence and Debate*, Elsevier Press, San Diego, pp.197-219, 2014.
- Kosten TA, Haile CN, Lijffijt M, Swann, AC. Alcohol use disorders: adaptations and progression to disordered drinking. In: Lijffijt M, Swann, AC, Moeller G Eds., *Neurobiology of Addictions: Susceptibility, Progression, and Resilience*, Oxford University Press, London, in press.

Kosten TR, Kosten TA. Vaccines for methamphetamine use disorder. In: Montoya I Ed., *Biologics to Treat Substance Use Disorders: Vaccines, Monoclonal Antibodies, and Enzymes*, Springer, in press.

Presentations at meetings (2013-present only)

Haile CN, Shorter D, O'Malley P, Lindsay JA, Mahony JJ, III, De La Garza, R, II, Kosten TA, Kosten TR, Newton TF. The $\alpha 1$ antagonist doxazosin blocks cocaine-induced sensitization in rats and reduces cocaine use in cocaine-dependent individuals. Winter Conference on Brain Research, Breckenridge, CO, Jan 2013.

Kosten TA, Winoske KJ. Naltrexone dose-dependently decreases reinforcer-seeking and –taking responses for alcohol but not sucrose. Research Society on Alcoholism, Orlando, FL, June 2013.

Kosten TA, XY Shen, PW O'Malley, BM Kinsey, Z. Huang, TR Kosten, FM Orson. Anti-methamphetamine vaccine attenuates reinstatement of conditioned place preference in mice. College on Problems of Drug Dependence, San Diego, CA, June 2013.

Shen XY, Orson FM, Kosten TA, Kinsey BM, Yan W, Wang X, Kosten TR. Anti-methamphetamine vaccine attenuates brain meth level and locomotor activity of methamphetamine in mice. College on Problems of Drug Dependence, San Diego, CA, June 2013.

Kosten TA, Huang W, Nielsen DA. Litter and sex effects on maternal behavior and DNA methylation of the *Nr3c1* gene in hippocampus and cerebellum. International Society for Developmental Psychobiology, San Diego, CA, November 2013.

Kosten TA, Winoske KJ. The peroxisome proliferator-activated receptor α agonist, fenofibrate, decreases alcohol-seeking and -taking behaviors. Society for Neurosciences, San Diego, CA, November 2013.

Arora R, Kosten TA, Bennett RS, Kinsey BM, Orson FM, Kosten TR. Preclinical efficacy of an anti-methamphetamine vaccine with an E6020 adjuvant. College on Problems of Drug Dependence, San Juan, PR, June 2014.

Kosten TA, Ryabinin AE. The ghrelin antagonist, [D-LYS³]-GHRP-6, dose-dependently decreases reinforcer-seeking and –taking responses for alcohol and sucrose. Research Society on Alcoholism, Bellevue, WA, June 2014.

Kosten TA, Nielsen DA, Homanics GE. Acute behavioral effects of alcohol in TLR4 knock-out rats. Society for Neurosciences, Washington, DC, November 2014.

Arora R, Haile CN, Kosten TA, Kinsey BM, Orson FM, Kosten TR. Functional consequences of anti-methamphetamine vaccine using a novel E6020 adjuvant. College on Problems of Drug Dependence, Phoenix, AZ, June 2015.

Nieto SJ, Kosten TA. Paternal alcohol exposure alters behavior of adult male and female offspring. Research Society on Alcoholism, San Antonio, TX, June 2015.

Kosten TA, Haile CN, Winoske KJ, Lykissa ED, Naidu N, Kinsey BM, Arora R, Orson FM, Kosten TR. Efficacy of a tetanus-toxoid succinyl-methamphetamine vaccine differs between male and female mice. Society for Neurosciences, Chicago IL, October 2015.

GRANTS

Current

Principal Investigator, “Target Validation Core Rats” (U01AA013476), NIH/NIAAA; \$150,000/year (direct costs), 9/01/11-8/31/16.

Co-Investigator, “Human methamphetamine vaccine: Translational avant garde” (DP1DA033502), NIH/NIDA, Thomas Kosten, PI, \$500,000/year (direct costs), 09/30/2011-08/31/2016.

Co-Investigator, “Hypothalamic Neuronal Plasticity in Chronic Stress”,(R01MH096086), NIH/NCI, (De-Pei Li, PI; UT MD Anderson Cancer Center), \$31,306/year (direct costs for sub-contract), 4/01/2013-3/31/2018.

Expired

Project Principal Investigator, “The Neurobehavioral Effects of Cocaine” (P50-04060), NIH/NIDA, “Clinical Research Center for Opioid and Cocaine Abuse”, Thomas Kosten, PI, \$50,000/year (direct costs), 9/01/91-8/31/96.

Project Co-Principal Investigator, “Behavioral Studies of Opiate Dependence and Withdrawal” (P01-DA08227), NIH/NIDA, “Molecular Neurobiology of Drug Addiction”, Eric Nestler, PI, \$48,762/year, (direct costs), 7/1/93-6/30/98.

Principal Investigator, “Neurobehavioral Studies of Dual-Drug Addiction”. (R01DA009994), NIH/NIDA, \$90,864/year, (direct costs), 5/1/97-4/30/00.

Principal Investigator, “Animal Models of Drug Addiction”. (Supplement R01 DA009994), NIH/NIDA, \$20,000, (direct costs), 10/1/99-4/30/00.

Project Principal Investigator, “The HPA Axis and Neurobehavioral Effects of Cocaine” (P50-04060), NIH/NIDA, “Clinical Research Center for Opioid and Cocaine Abuse”, Thomas Kosten, PI, \$99,518/year (direct costs), 9/01/96-11/30/00.

Project Co-Principal Investigator, “Behavioral Core” (P01-DA08227), NIH/NIDA, “Molecular Neurobiology of Drug Addiction”, Eric Nestler, PI, \$126,000/year (direct costs), 8/1/93-6/3/01.

Project Principal Investigator, “Novel Pharmacotherapy for Treatment of Cocaine Addiction” (U19DA133326), NIH/NIDA, SPIRCAP, F Ivy Carroll, PI, \$65,000/year (direct costs), 10/1/00-9/30/03.

Faculty Scholar, “Yale IWHR Scholar Program on Women and Drug Abuse”, NIH/NIDA/OWHR; Carolyn Mazure, PI, (provided 80% salary and fringe support), 7/1/01-6/30/06.

Principal Investigator, “Early Life Stress & Cocaine Abuse in Male & Female Rats” (DF # 00-202), Patrick and Catherine Weldon Donaghue Medical Research Foundation \$181,000/year (direct costs), 10/1/00-9/30/04.

Co-Principal Investigator, “Neurobehavioral Effects of Cocaine”, VA Merit Program, Thomas Kosten, PI, \$125,000/year (direct costs), 10/01/05-9/30/08.

Principal Investigator, “Neuroadaptations to Ethanol” (U01AA013476), NIAAA, \$65,000/year (direct costs), 12/30/07-8/31/11.

Principal Investigator, “Sex Differences in Vulnerability to Cocaine Addiction” (R21DA020117), NIH/NIDA/OWHR, \$150,000/year (direct costs), 9/01/08-12/31/10.

Principal Investigator, “Sex Differences Vulnerability To Cocaine Addiction”, Competitive revision, (R21DA020117), NIH/NIDA/OWHR, \$175,000/2 years (direct costs), 9/01/09-8/31/11.

Co-Investigator, “Developing Immunotherapeutics for Methamphetamine Abuse” (U01DA023898), NIH/NIDA, Thomas Kosten, PI, \$250,000/year (direct costs), 7/01/09 – 6/30/12.

Co-Investigator, “Vaccines for Drug Abuse”, VA Merit Grant, Frank Orson, PI, \$123,300/year (direct costs), 10/1/08-9/30/12.

Co-Investigator, “Vaccines For Sustainable Therapy of Opiate Addiction” (R01DA026859), Frank Orson, PI, NIH/NIDA/OWHR, \$250,000/year (direct costs), 7/01/09 – 6/30/13.

Principal Investigator, “Preclinical Efficacy Tests of Anti-methamphetamine Vaccines”, Alkek Award for Experimental Therapeutics; \$100,000, 9/01/12-8/31/13.

Project Principal Investigator, “Test the role of sex hormones on methamphetamine's behavioral effects”, Supplement to DP1DA033502, NIH/NIDA, \$64,000 (direct costs), 9/01/2013-8/31/2014.

SERVICE/COMMITTEES

NATIONAL/INTERNATIONAL

Session co-chair, College on Problems of Drug Dependence	1991, 1993, 2002, 2013
Ad-hoc member, contract review committee, National Institute on Drug Abuse	1993
Ad-hoc member, B-START grant review, National Institute on Drug Abuse	2000
Ad-hoc member, VA Merit Review panel, Department of Veterans Affairs	2001
Ad-hoc member, review panel, Cooperative Grants Program, U.S. Civilian Research & Development Foundation	2001
Session facilitator, 2 nd Annual World Congress on Women’s Mental Health	2004
Symposium chair, College on Problems of Drug Dependence	2004
Workshop co-chair, College on Problems of Drug Dependence	2004
Member, Special Emphasis Grant review committee, National Institute on Drug Abuse	2004
Ad-hoc member, VA Merit Review Panel Neurobiology A, Veterans Administration	2004
Reviewer, Institute for Mental Health Research	2007

External reviewer, Estonian Science Foundation	2007
Reviewer, Special Emphasis Grant review committee, National Institute on Drug Abuse	2007
Awards Committee, College on the Problems of Drug Dependence	2007-2010
Editorial board, <i>The Open Neuropsychopharmacology Journal</i>	2008-2012
Editorial board, <i>International Journal of Developmental Neuroscience</i>	2008-
Reviewer, ARRA Stimulus Grant Applications, National Institutes of Health	2009
Reviewer, University of Houston GEAR program	2010
Reviewer, SOAR program, National Institute on Drug Abuse	2010
Member, Special Emphasis Panel/Scientific Review Group 2011/10 AA-4	2011
Editorial board, <i>Frontiers in Behavioral Neuroscience</i>	2010-
Advisor, CAMID Program Project Grants, J. Johns and L. Mayes, PIs	2011
Ad-hoc member, Fellowship Training Grants Review Committee (ZRG1 F02a), NIH/CSR,	Mar 2011
Ad-hoc member, Fellowship Training Grants Review Committee (ZRG1 F02a), NIH/CSR,	July 2011
Ad-hoc member, AA-4 Review Panel, National Institute on Alcohol Abuse and Alcoholism	2011
Member, Animals in Research Committee, College on the Problems of Drug Dependence	2012-2015
Member, Animals in Research Committee, Research Society on Alcoholism	2013-
Session co-chair and organizer, Research Society on Alcoholism	2014
Ad-hoc member, BRLE committee, Center for Scientific Review, NIH	2013-2014
Standing member, BRLE committee, Center for Scientific Review, NIH	2014-2020
Alternate Chair, BRLE committee, Center for Scientific Review, NIH	June 2015
Member, ZAA1 DD (04)	2015
Reviewer, numerous journals in Psychology, Pharmacology, Neuroscience, Addiction	

BAYLOR COLLEGE OF MEDICINE/MICHAEL E DEBAKEY VA MEDICAL CENTER

BCM Institutional Animal Use and Care Committee	2006-2013
MEDVAMC safety committee (Chair)	2007-2010
MEDVAMC sub-committee on research safety	2007-2011
Director, Jack Sullivan Laboratory for the Study of Brain and Behavior	2010-2014
Research Committee, Department of Psychiatry	2011-2013

UNIVERSITY OF HOUSTON

Recruitment and Retention Committee, UH ADVANCE	2014-
UH ADVANCE Advocate	2014-
Scientific Director, Animal Behavioral Core	2015-
Departmental Mentoring Program Pilot Development Committee	2015-
Head, Developmental Cognitive Neuroscience Program, Psychology Department	2015-
Graduate Education Committee, Psychology Department	2015-
Chair, Developmental Cognitive Neuroscience Search Committee	2015-2016
CLASS Promotion and Tenure Committee	2015-2016
Member, UH University Women's Chorus	2015-

COMMUNITY

Board member, secretary, treasurer; Yale Figure Skating Club, New Haven, CT	1988-1994
Judge, Pershing Middle School Science Fair	2007
"Drugs and the Brain", Invited talk, Kincaid Academy, Houston, TX	2009
Judge, Bellaire High School Debate Team	2010
Choir Communication Committee, St. Michael Catholic Church, Houston, TX	2014-2015