

# Jennifer Dawn Thomas

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## EDUCATIONAL HISTORY

Scripps Research Institute La Jolla, CA	Postdoctoral Fellowship Dept. of Neuropharmacology	1995-1997
University of Iowa Iowa City, IA	Ph.D. Psychology Neuroscience and Behavior Program	1992-1995
University of Iowa Iowa City, IA	M.A. Psychology Neuroscience and Behavior Program	1989-1992
Iowa State University Ames, IA	B.S. Psychology	1985-1989

## PROFESSIONAL EXPERIENCE

Co-Director	Center for Behavioral Teratology	2015-present
Director, Pre-clinical Research	Center for Behavioral Teratology	2015-present
Professor	San Diego State University	2009-present
Graduate Program Advisor	San Diego State University	2010-present
Associate Director	Center for Behavioral Teratology	2011-2015
Associate Professor	San Diego State University	2004-2009
Assistant Professor	San Diego State University	2000-2004
Senior Research Scientist	Center for Behavioral Teratology	1997-2000
Adjunct Faculty	San Diego State University	1996-2000
Research Consultant	Texas A & M	1993-1995

## RESEARCH INTERESTS

Fetal Alcohol Spectrum Disorders, Developmental neurotoxicology and teratology, Developmental psychobiology, Learning and memory, Neurobiology of learning and memory

## HONORS AND AWARDS

Alpha Chi Omega Faculty Appreciation	2013
Outstanding Faculty, San Diego State University	1999, 2000, 2010
Kenneth W. Spence Award, University of Iowa	1994

## PROFESSIONAL SERVICE

Board of Directors, SDSU Foundation	2016-present
Board of Directors, Research Society on Alcoholism	2013-2016
FASD Expert Panel; SAMHSA FASD Center of Excellence	2013-2015
Research Society on Alcoholism Publication Committee (Chair)	2013-present
Research Society on Alcoholism Government Affairs and Advocacy	2009-present
Treasurer, Research Society on Alcoholism	2010-2012

Advisory Board for the Fetal Alcohol Spectrum Disorders Study Group	2010-2011
President of the Fetal Alcohol Spectrum Disorders Study Group	2007-2008
Vice President of the Fetal Alcohol Spectrum Disorders Study Group	2006-2007
Secretary/Treasurer of the Fetal Alcohol Spectrum Disorders Study Group	2005-2006
Research Society on Alcoholism Education Committee, Chair (2005-2009)	1996-2011
Research Society on Alcoholism Program Committee	2009-2010
Member, NAL IRG, Center for Scientific Review	2007-2011
Ad Hoc Reviewer for National Institute on Alcoholism and Alcohol Abuse & Center for Scientific Review	2003-present
ZRG1 IFCN-C Special Emphasis Panel	09/2013
ZRG1 IFCN-C Special Emphasis Panel	03/2014
ZRG1 IFCN-C Special Emphasis Panel	05/2014
AA4	06/2015
ZRG1 IFCN-C Special Emphasis Panel	07/2015
ZRG1 IFCN-C Special Emphasis Panel	11/2015
ZRG1 IFCN-C Special Emphasis Panel	03/2016
ZRG1 IFCN-C Special Emphasis Panel	07/2016
ZRG1 IFCN-C Special Emphasis Panel	10/2016
ZAA1-JJ-01	12/2016
Grant Reviewer, Alcoholic Beverage Medical Research Foundation	04/2014
Grant Reviewer, Alcoholic Beverage Medical Research Foundation	04/2013
Grant Reviewer, Alcoholic Beverage Medical Research Foundation	04/2012
Grant Reviewer, March of Dimes	2006
Grant Reviewer, California State Universities	2004
Editorial Board for Alcoholism: Clinical and Experimental Research	2014-present
Editorial Board for Alcohol Research: Current Reviews	2007-present
Editorial Board for Frontiers in Integrative Neuroscience	2007-present
Editorial Board for Neurotoxicology & Teratology	2002-2011
Guest Editor, Alcohol Research and Health Vol 34, Issue 1, Fetal Alcohol Spectrum Disorders	2010-2011
Reviewer for the following journals: Journal of Neuroscience; European Journal of Neuroscience; Behavioral Brain Research; Brain Research; Journal of Neurophysiology; Pharmacology, Biochemistry and Behavior; International Journal of Comparative Psychology; Alcohol; Life Science; Behavioral Neuroscience; Alcoholism: Clinical and Experimental Research; Nutritional Neuroscience, Neurotoxicology and Teratology, PLoS, Hippocampus	

## **TEACHING EXPERIENCE**

### **San Diego State University**

Graduate Seminars on the Physiological Correlates to Behavior	2001-2006
Behavioral Neuroscience	2001-2007
Learning and Behavior	1996-2000
Intro to Physiological Psychology	1996, 1999-2003, 2006-2016
Research Orientation	2010-2013
Center for Teaching & Learning workshops	2000-2001, 2016

### **Mentorship**

Postdoctoral fellows (6), Graduate students (16) including:

2 SDSU Kaplan Postdoctoral Fellows

CSU Chancellor's Doctoral Incentive Program, Kara Thorsen 2007-2011

Undergraduate Honors Theses (12)

Mentorship of numerous undergraduate and high school students, including the following:

Minority Biomedical Research Support	2002-2014
Career Opportunities in Research	2002-2013
Upward Bound (High School students)	1997-2000, 2002-05
McNair Scholar Mentorship (for minorities)	1996-1997, 2003-2005, 2010
Western Psychological Association/ Rocky Mountain Psychological Association Student Presentation Awardees	1997, 1999, 2001, 2003, 2007, 2014

## **ACADEMIC SERVICE**

### **San Diego State University**

SDSU Graduate Council	2016-present
SDSU Graduate Curriculum Committee	2016-present
SDSU Conflict of Interest Committee	2014-present
Psychology Department Master's Program Advisor	2010-present
Psychology Department Master's Committee Chair	2010-present
Psychology Department Advisory Committee	2007-present
Psychology Department Adjunct Faculty Reviews	2008-present
Psychology Department Awards Committee	2010-2015
Psychology Department Review, Tenure, & Promotion Committee	2011-2014
College of Sciences Vivarium Advisory Committee	2008-2014
College of Sciences Safety Committee	2008-2014
SDSU Vivarium Program Review	2013-2014
University Animal Use and Care Committee	2002-2013
Sabbatical Review Committee	2011-2013
Psychology Department Planning and Policy Committee	2006-2009
Faculty Search Committees	2003-2006; 2014; 2015
SDSU College of Sciences Research Symposium Judge	2001-2006, 2010, 2012
Keynote Speech for the Psi Chi Induction Meeting	2001
Guest Lectures for graduate seminars (Topics in Toxicology Seminar, Developmental Psychology Seminar, Psychology Club)	1997-2008

## **GRANTS**

Effects of Prenatal Ethanol and THC on Brain and Behavioral Development, R21 National Institute on Alcohol Abuse and Alcoholism 09/17-08/22, Principal Investigator

Fetal Alcohol Spectrum Disorders Study Group, R13 AA015661 National Institute on Alcohol Abuse and Alcoholism. 04/15-04/19, Principal Investigator

Fetal Alcohol Effects and Choline Intervention, R01 AA012446-14 National Institute on Alcohol Abuse and Alcoholism 4/18-03/23, Principal Investigator

17th and 18th ISBRA Congresses. R13 AA022578 National Institute on Alcohol Abuse and Alcoholism, 09/17-08/22, Principal Investigator (multiple PI with Ed Riley)

Fetal Alcohol Spectrum Disorders Study Group, R13 AA015661 National Institute on Alcohol Abuse and Alcoholism. 05/10-04/14, Principal Investigator

Fetal Alcohol Effects and Choline Intervention, R01 AA012446 National Institute on Alcohol Abuse and Alcoholism. 06/05-11/11, Principal Investigator.

ARRA Supplements to Fetal Alcohol Effects and Choline Intervention, National Institute on Alcohol Abuse and Alcoholism, 09/09, Principal Investigator

ARRA Supplements to Fetal Alcohol Effects and Choline Intervention, National Institute on Alcohol Abuse and Alcoholism, 03/10, Principal Investigator

Choline Availability and FASD (Exploratory Project for the International Consortium on Fetal Alcohol Spectrum Disorders), UH2 National Institute on Alcohol Abuse and Alcoholism. 10/07-9/10, Principal Investigator

Behavioral Effects of Neonatal Alcohol, R01 National Institute on Alcohol Abuse and Alcoholism. 10/05-11/11, Co-Principal Investigator, E.P. Riley P.I.

Behavioral Effects of Neonatal Methamphetamine Exposure, R21 National Institute on Drug Abuse, 06/07-05/09, Co-Principal Investigator, H.D. Dominguez P.I.

RSA Lecture Series, R25 National Institute of Alcohol Abuse and Alcoholism. 07/08-06/09, Principal Investigator.

Fetal Alcohol Effects and Choline Intervention, R01 National Institute on Alcohol Abuse and Alcoholism. 06/01-06/04, Principal Investigator.

Behavioral Effects of Neonatal Alcohol, R01 National Institute on Alcohol Abuse and Alcoholism, 07/99-07/04, Co-Principal Investigator, E.P. Riley P.I.

Behavioral Effects of Neonatal Nicotine Exposure, Tobacco-Related Disease Research Program, 07/00-06/04, Co-Principal Investigator, E.P. Riley P.I.

Behavioral Effects of Early Ethanol and MK-801 Exposure, R03 National Institute on Alcohol Abuse and Alcoholism, 02/98-01/01, Principal Investigator

#### Mentored Grants:

Choline Intervention for Fetal Alcohol Spectrum Disorders, National Institute on Alcohol Abuse and Alcoholism 09/12-08/15. F31 Tanya Nguyen (role: mentor).

Epigenetics and choline: mediation of fetal alcohol effects in a rat model. National Institute on Alcohol Abuse and Alcoholism, 08/13-07/18, K01 Carol Cheatham (role: mentor).

#### Grants Under Review:

Sleep in Children with Fetal Alcohol Spectrum Disorders, R21AA026697 National Institute on Alcohol Abuse and Alcoholism, 09/18-08/20, Principal Investigator

Effects of Prenatal Exposure to Tobacco and Cannabis on Development in Rats, Tobacco-Related Disease Research Program, 06/18-05/20, Principal Investigator

**PUBLICATIONS** (undergraduate students in bold italics, graduate students in bold & post-docs underlined)

- Goodlett, C.R., Thomas, J.D., & West, J.R. (1991). Long-term deficits in cerebellar growth and rotarod performance of rats following "binge-like" alcohol exposure during the neonatal brain growth spurt. Neurotoxicology and Teratology, 13, 69-74.
- Gionet, T.X., Thomas, J.D., Warner, D.S., Goodlett, C.R., Wasserman, E.A., & West, J.R. (1992). Forebrain ischemia induces selective behavioral impairments associated with hippocampal CA1 injury. Stroke, 22, 1040-1047.
- Gionet, T.X., Warner, D.S., Verhaegen, M., Thomas, J.D., & Todd, M.M. (1992). Effects of intra-ischemic blood pressure on outcome from 2-vessel occlusion forebrain ischemia in the rat. Brain Research, 586, 188-194.
- Gagliardi, J., Kirkpatrick-Steger, K.K., Thomas, J.D., Allen, G. & Blumberg, M. (1995). Seeing and knowing: Knowledge attribution versus stimulus control in adult humans (*Homo Sapiens*), Journal of Comparative Psychology, 109, 107-114
- Pantazis, N.J., Dohrman, D.P., Luo, J., Thomas, J.D., Goodlett, C.R., & West, J.R. (1995). N-Methyl-D-Aspartate prevents alcohol-induced neuronal cell death of cerebellar granule cells in culture. Alcoholism: Clinical and Experimental Research, 19, 846-853.
- Thomas, J.D., Goodlett, C.R., Wasserman, E.A., & West, J.R. (1996). Behavioral deficits induced by binge-like exposure to alcohol in neonatal rats: Importance of developmental timing and number of episodes. Developmental Psychobiology, 29, 433-452.
- Ehlers, C.L., Somes, C., Thomas, J.D., Riley, E.P. (1997). Effects of neonatal exposure to nicotine on electrophysiological parameters in adult rats. Pharmacology, Biochemistry and Behavior, 58, 713-720.
- Thomas, J.D., **Weinert, S., Sharif, S.**, & Riley, E.P. (1997). MK-801 administration during ethanol withdrawal in neonatal rat pups attenuates ethanol-induced behavioral deficits. Alcoholism: Clinical and Experimental Research, 21, 1218-1225.
- Thomas, J.D., Goodlett, C.R., West, J.R. (1998). Alcohol-induced Purkinje cell loss depends on developmental timing of alcohol exposure and correlates with motor performance. Developmental Brain Research, 105, 159-166.
- Thomas, J.D., Melcer, T., **Weinert, S.**, Riley, E.P. (1998). Neonatal alcohol exposure produces hyperactivity in rats bred for high alcohol sensitivity (HAS) but not in low alcohol sensitive (LAS) rats. Alcohol, 16, 237-242.
- Thomas, J.D., & Riley, E.P. (1998). Fetal alcohol syndrome: Does alcohol withdrawal play a role? Alcohol Health and Research World, 22, 47-53.
- Thomas, J.D., **Burchette, T.L., Dominquez, H.D.**, & Riley, E.P. (2000). Neonatal alcohol exposure produces more severe motor coordination deficits in high alcohol sensitive (HAS) rats compared to low alcohol sensitive (LAS) rats. Alcohol, 20: 93-99.
- Slawecki, C.J.**, Thomas, J.D., Riley, E.P., & Ehlers, C.L. (2000). Neonatal nicotine exposure alters hippocampal EEG and event-related potentials (ERPs) in rats. Pharmacology, Biochemistry, and Behavior, 65, 711-8.

- Thomas, J.D., **Garrison, M.E.**, Slawewski, C.J., Ehlers, C.L., & Riley, E.P. (2000). Nicotine exposure during the neonatal brain growth spurt produces hyperactivity in preweanling rats. Neurotoxicology and Teratology, 22, 695-701.
- Thomas, J.D., La Fiette, M.H., Quinn, V.R.E., & Riley, E.P. (2000). Neonatal choline supplementation ameliorates the effects of prenatal alcohol exposure on a discrimination learning task in rats. Neurotoxicology and Teratology, 22: 703-711.
- Thomas, J.D., **Fleming, S.L.**, & Riley, E.P. (2001) MK-801 can exacerbate or attenuate behavioral alterations associated with neonatal alcohol exposure in the rat, depending on the timing of administration. Alcoholism: Clinical and Experimental Research. 25: 764-773.
- Riley, E.P., Thomas, J.D., Goodlett, C.R., Klintsova, A.Y., Greenough, W.T., Hungund, B.L., Zhou, F., Sari, Y., Powrozek, T., & Li, T.-K. (2001) Fetal alcohol effects: Mechanisms and Treatment. Alcoholism: Clinical and Experimental Research. 25: 110S-116S.
- Jimenez-Vasquez, P.A.**, Mathé, A.A., Thomas, J.D., Riley, E.P. & Ehlers, C.L. (2001) Early maternal separation alters neuropeptide Y concentrations in selected brain regions in adult rats. Developmental Brain Research, 131, 149-152
- Thomas, J.D., **Fleming, S.L.** & Riley, E.P. (2002) Administration of low doses of MK-801 during ethanol withdrawal in the developing rat pup attenuates alcohol's teratogenic effects. Alcoholism: Clinical and Experimental Research. 26: 1307-1313.
- Simmons, R.W., Wass, T.S., Thomas, J.D. & Riley, E.P. (2002) Fractionated simple and choice reaction time in children with prenatal exposure to alcohol. Alcoholism: Clinical and Experimental Research. 26: 1412-1419.
- Wass, T.S., Simmons, R.W., Thomas, J.D. & Riley, E.P. (2002) Timing accuracy and variability in children with prenatal exposure to alcohol. Alcoholism: Clinical and Experimental Research, 26, 1887-1896.
- Thomas, J.D., **Leany, B.L.** & Riley, E.P. (2003). Differential vulnerability to motor deficits in second replicate HAS and LAS rats following neonatal alcohol exposure. Pharmacology, Biochemistry, & Behavior, 75, 17-24.
- Thomas, J.D., **Garrison, M.E.**, & O'Neill, T.M. (2004) Perinatal choline supplementation attenuates behavioral alterations associated with neonatal alcohol exposure in rats Neurotoxicology & Teratology, 26, 25-35.
- Thomas, J.D., O'Neill, T.M. & Dominguez, H.D. (2004) Perinatal choline supplementation does not mitigate motor coordination deficits associated with neonatal alcohol exposure in rats. Neurotoxicology & Teratology, 26, 223-229.
- Thomas, J.D., **Garcia, G.G.**, Dominguez, H.D. & Riley, E.P. (2004) Administration of eliprodil during ethanol withdrawal in the neonatal rat attenuates ethanol-induced learning deficits. Psychopharmacology, 175, 189-195.
- Slawewski, C., Thomas, J.D., Riley, E.P. & Ehlers, C. (2005) Neurophysiological consequences of early postnatal alcohol exposure in the rat. Alcohol. 34, 187-196.

Guerri, C., Pascual, M., Garcia-Minguillan, M.C., Charness, M.E., Wilkemeyer, M.F., Klintsova, A.Y., Goodlett, C.R., Greenough, W.T., Sakata-Haga, H., Dominguez, H.D., & Thomas, J.D. (2005) Fetal alcohol effects: Potential treatments from basic science. Alcoholism: Clinical and Experimental Research, 29, 1074-1079.

Simmons, R.W., Thomas, J.D., **Levy, S.S.**, & Riley, E.P. (2006) Motor response selection in children with fetal alcohol spectrum disorders. Neurotoxicology and Teratology, 28, 278-285.

Sakata-Haga, H., Dominguez, H.D., Sei, H., Fukui, Y., Riley, E.P., & Thomas, J.D. (2006) Alterations in circadian rhythms in rats following ethanol exposure during the third trimester brain growth spurt. Alcoholism: Clinical and Experimental Research, 30, 899-907.

Bonthius, D.J., Carmichael Olsen, H., & Thomas, J.D. (2006) Proceedings of the 2006 annual meeting of the fetal alcohol spectrum disorders study group, Alcohol, 40, 61-65.

Thomas, J.D., **Biane, J.S.**, **O'Brien, K.S.**, & Dominguez, H.D. (2007) Choline supplementation following 3<sup>rd</sup> trimester equivalent alcohol exposure attenuates behavioral alterations in rats, Behavioral Neuroscience, 121, 120-130.

Dominguez, H.D. & Thomas, J.D. (2008). Artificial Rearing. Methods on Molecular Biology, 447, 85-100.

Thomas, J.D., **Miura, T.**, & **Whinery, L.A.** (2008) Voluntary exercise influences behavioral development in rats exposed to alcohol during the neonatal brain growth spurt, Behavioral Neuroscience, 122, 1264-1273. PMC3164868

**Ryan, S.H.**, **Williams, J.K.**, & Thomas, J.D. (2008) Choline supplementation attenuates learning deficits associated with neonatal alcohol exposure in the rat: Effects of varying the timing of choline administration, Brain Research, 1237, 91-100. PMC2646103

McGough, N.N.H., Thomas, J.D., Dominguez, H.D. & Riley, E.P. (2009). Insulin-like growth factor-I mitigates motor coordination deficits associated with neonatal alcohol exposure in rats. Neurotoxicology and Teratology, 31, 40-48. PMC3164874

Thomas, J.D., **Abou, E.J.** & Dominguez, H.D. (2009) Prenatal choline supplementation mitigates the adverse effects of prenatal alcohol exposure on development in rats. Neurotoxicology and Teratology, 31, 303-311. PMC2952280

Thomas, J.D., Zhou, F., & Kane, C. (2009) Proceedings of the 2008 annual meeting of the Fetal Alcohol Spectrum Disorders Study Group. Alcohol, 43, 333-339. PMC2709793

Simmons, R. Thomas, J.D., **Levy, S.S.** & Riley, E.P. (2010) Motor response programming and movement time in children with heavy prenatal alcohol exposure. Alcohol, 44, 371-378. PMC2918701

Thomas, J.D. Warren, K.R., & Hewitt, B.G. (2010). Fetal Alcohol Spectrum Disorders: From Research to Policy. Alcohol Research and Health, 33, 118-126. PMC3887502

- Thomas, J.D., Idrus, N.M., **Monk, B.R.**, & Dominguez, H.D. (2010) Prenatal choline supplementation mitigates behavioral alterations associated with prenatal alcohol exposure in rats. Birth Defects Research, 88, 827-837. PMC3677823
- Idrus, N.M., McGough, N.N.H., Riley, E.P. & Thomas, J.D. (2011) Administration of memantine during ethanol withdrawal mitigates motor coordination deficits and cerebellar Purkinje cell loss associated with neonatal alcohol exposure in rats. Alcoholism: Clinical and Experimental Research, 35, 355-364. PMC3743721
- Idrus, N.M. & Thomas, J.D. (2011) Fetal alcohol spectrum disorders: Experimental therapeutics and strategies for intervention. Alcohol Research and Health, 34, 76-85. PMC3831616
- Warren, K.R. & Thomas, J.D. (2011) Fetal alcohol spectrum disorders: Research challenges and opportunities. Alcohol Research and Health, 34, 4-14. PMC261382
- Johnson, B.A., Messing, R.O., Charness, M.E., Crabbe, J.C., Goldman, M.S., Harris, R.A., Kranzler, H.R., Mitchell, M.C., Nixon, S.J., Riley, E.P., Schuckit, M.A., Sher, K.J. & Thomas, J.D. (2011) Should the reorganization of addiction-related research across all the National Institutes of Health be structural? The devil is truly in the details. Alcoholism: Clinical and Experimental Research, 35, 572-580.
- Johnson, B.A., Messing, R.O., Charness, M.E., Crabbe, J.C., Goldman, M.S., Harris, R.A., Kranzler, H.R., Mitchell, M.C., Nixon, S.J., Riley, E.P., Schuckit, M.A., Sher, K.J. & Thomas, J.D. (2011) How should addiction-related research at the National Institutes of Health be reorganized? Frontiers in Addictive Disorders.
- Idrus, N.M., McGough, N.N.H., Spinetta, M.J., Thomas, J.D., & Riley, E.P. (2011). The effects of a single memantine treatment on behavioral alterations associated with binge alcohol exposure in neonatal rats. Neurotoxicology & Teratology, 33, 444-450. PMC3144286
- Simmons, R.W., **Nguyen, T.T.**, **Levy, S.S.**, Thomas, J.D., Mattson, S.N., & Riley, E.P. (2012). Children with heavy prenatal alcohol exposure experience deficits in regulating isometric force. Alcoholism: Clinical and Experimental Research, 36, 302-309. PMC3578740
- Thomas, J.D. & Tran, T. (2012) Choline supplementation mitigates trace, but not delay, eyeblink conditioning deficits in rats exposed to alcohol during development. Hippocampus, 22, 619-630. PMC 3382021
- Monk, B.R.**, Leslie, F.M., & Thomas, J.D. (2012) The effects of perinatal choline supplementation on hippocampal cholinergic development in rats exposed to alcohol during the brain growth spurt. Hippocampus, 22, 1750-1757. PMC3382021
- Clements, K.M., **Smith, L.M.**, Reynolds, J.N.J., Overton, P.G., Thomas, J.D., & Napper, R.M. (2012) Early postnatal ethanol exposure leads to glutamatergic excitotoxic cell death during withdrawal. Neurophysiology, 44, 376-386.
- Otero, N.K.H.**, Thomas, J.D., Saski, C.A., Xia, X., & Kelly, S.J. (2012) Choline supplementation and DNA methylation in the hippocampus and prefrontal cortex of rats exposed to alcohol during development. Alcoholism: Clinical & Experimental Research, 36, 1701-1709. PMC3402564



- Nguyen, T.T.**, Levy, S.S., Riley, E.P., Thomas, J.D., & Simmons, R.W. (2013) Children with heavy prenatal alcohol exposure experience reduced control of isotonic force. Alcoholism: Clinical & Experimental Research, 37, 315-324. PMC22834891
- Nguyen, T.T.**, Ashrafi, A., Thomas, J.D., Riley, E.P., & Simmons, R.W. (2013) Children with heavy prenatal alcohol exposure have different frequency domain signal characteristics when producing isometric force. Neurotoxicology and Teratology, 35, 14-20. PMC3603370
- Idrus, N.M., Happer, J.P., & Thomas, J.D. (2013) Cholecalciferol attenuates perseverative behavior associated with developmental alcohol exposure in rats in a dose-dependent manner. The Journal of Steroid Biochemistry and Molecular Biology. 136,146-149. PMC3586753
- Nguyen, T.T.**, Levy, S.S., Riley, E.P., Thomas, J.D., Simmons, R.W. (2013) Children with heavy prenatal alcohol exposure experience reduced control of isotonic force. Alcoholism: Clinical & Experimental Research, 37, 315-324. PMC22834891
- Idrus, N.M., McGough, N.N.H., Happer, J.P., Riley, E.P. & Thomas, J.D. (2014) Administration of memantine during withdrawal mitigates overactivity and spatial learning impairments associated with neonatal alcohol exposure in rats. Alcoholism: Clinical & Experimental Research 38, 529-537. PMC3946805
- Murawski, N., Moore, E.M., Thomas, J.D. & Riley, E.P. (2015). Advances in diagnosis and treatment of fetal alcohol spectrum disorders. Alcohol Research: Current Reviews, 37, 97-108. PMC4476607
- Simmons, R.W., **Nguyen, T.T.**, Thomas, J.D., Riley, E.P. (2015). The use of open- and closed-loop control during goal-directed force responses by children with heavy prenatal alcohol exposure. Alcoholism: Clinical and Experimental Research, 39, 1814-1822. PMC4558327
- Schneider, R.** & Thomas, J.D. (2016). Adolescent choline supplementation attenuates working memory deficits in rats exposed to alcohol during the 3<sup>rd</sup> trimester equivalent. Alcoholism: Clinical and Experimental Research, 40, 897-905. PMC27038598
- Nguyen, T.T.**, **Risbud, R.D.**, Chambers, C., Thomas, J.D. (2016) Dietary nutrient intake in school-aged children with fetal alcohol spectrum disorders. Alcoholism: Clinical and Experimental Research. 40, 1075-1082. PMC4844832
- Nguyen, T.T.**, **Risbud, R.D.**, Chambers, C.D., Mattson, S.N., Thomas, J.D. (2016) A randomized, double-blind, placebo-controlled clinical trial of choline supplementation in school-aged children with fetal alcohol spectrum disorders. American Journal of Clinical Nutrition. 104, 1683-1692. PMID 27806977
- Idrus, N.M., Breit, K.R., Thomas, J.D. (2017) Dietary choline levels modify the effects of prenatal alcohol exposure. Neurotoxicology and Teratology, 59, 43-52. PMID 27888055
- Balaraman, S., Idrus, N.M., Miranda, R., Thomas, J.D. (2017) Postnatal choline supplementation selectively attenuates hippocampal microRNA alterations associated with developmental alcohol exposure. Alcohol. 60, 159-167. PMID28433422
- Taggart, T.**, Simmons, R.W., Thomas, J.D., & Riley, E.P. (2017) Children with heavy prenatal alcohol exposure exhibit atypical gait characteristics. Alcoholism: Clinical and Experimental Research, 41, 1648-1655. PMID28727159

**Other Invited Publications & Chapters:**

Riley, E.P., Mattson, S.N. & Thomas, J.D. (2003) Fetal Alcohol Syndrome. In: G. Adelman & B.H. Smith (Eds), *Encyclopedia of Neuroscience*, Third Edition [on CD ROM]. Oxford: Elsevier Science Publishers

Thomas, J.D. & Dominguez, H.D. (2007). Artificial Rearing. In: *Methods on Molecular Medicine in Alcohol*, Human Press

Riley, E.P., Mattson, S.N. & Thomas, J.D. (2008) Fetal Alcohol Syndrome. In: G. Adelman & B.H. Smith (Eds), *Encyclopedia of Neuroscience*, Fourth Edition [on CD ROM]. Oxford: Elsevier Science Publishers

Thomas, J.D. & Riley, E.P. (2011) Interventions for Fetal Alcohol Spectrum Disorders: Implications from Basic Science Research. In S. Adubato & D.E. Cohen (Eds) *Prenatal Alcohol use and FASD: Historical and Future Perspectives*.  
<http://bentham.org/ebooks/forthcomingtitles.htm>

Idrus, N.M. & Thomas, J.D. (2011) Fetal Alcohol Spectrum Disorders and the Cerebellum. In: *Cerebellum: Anatomy, Function and Disorders*, Nova Sciences Publishers, Inc.

**Nguyen, T.T.**, & Thomas, J.D. (2011). Fetal Alcohol Spectrum Disorders and Nutrition. O'Connor MJ, topic ed. In R.E. Tremblay, M. Boivin, R.V. Peters, & R.G. Barr (Eds.), *Encyclopedia on Early Childhood Development* (pp. 1-8) [online]. Montreal, Quebec: Centre of Excellence for Early Childhood Development.

Riley, E.P., **Infante, M.A.**, Mattson, S.N., & Thomas, J.D. (2012) Fetal alcohol spectrum disorders: Not just another pretty face. *Seen and Heard*, 21, 32-50.

Thomas, J.D & **Nguyen, T.T.** (2012). Fetal Alcohol Spectrum Disorders: Nutrition Matters. *Women's Health Report*.

#### Invited Presentations:

Motor coordination deficits and cerebellar damage in adult rats induced by alcohol exposure during the brain growth spurt. Symposium at the Research Society on Alcoholism meeting, Marco Island, FL, June 1991.

Alcohol sensitivity: A possible factor in fetal alcohol effects. Presentation at the Fetal Alcohol Study Group meeting, Santa Barbara, CA, June 1999.

Does Alcohol Withdrawal Contribute to Fetal Alcohol Effects? Symposium at the International Society for Biomedical Research on Alcoholism. Yokohama, Japan, July 2000.

Alcohol withdrawal and fetal alcohol effects. Presentation at the Fetal Alcohol Study Group meeting, Montreal, June 2001.

Fetal Alcohol Effects and Genetics. Presentation at the Fetal Alcohol Study Group meeting, San Francisco, June 2002.

Fetal Alcohol Effects: Mechanisms and Treatment. Presentation at the Dept. of Anatomy & Neurobiology, Texas A & M, October 2002.

Choline Attenuates Hyperactivity Induced by Neonatal Alcohol Exposure. Presentation at the Research Society on Alcoholism meeting, Ft. Lauderdale, June 2003.

Perinatal choline supplementation as a treatment for fetal alcohol effects. University of California Irvine Tobacco Research Network, Irvine, 2004.

Fetal Alcohol Spectrum Disorders: What have we learned from Basic Science? FASD Field Trainers Workshop, San Diego, 2005.

Fetal Alcohol Spectrum Disorders: From the lab to the clinic. FASD Field Trainers Workshop, Seattle, 2005.

Fetal Alcohol Spectrum Disorders: What have we learned from Basic Science? FASD Field Trainers Workshop, Orlando, 2005.

Alcohol withdrawal contributes to fetal alcohol spectrum disorders. Presentation at the International Society on Biomedical Research on Alcoholism, Sydney, Sept. 2006.

Fetal Alcohol Spectrum Disorders: Mechanisms of Damage and Potential Treatments. Presentation at Dept. of Neurosciences, University of New Mexico, Albuquerque, Nov. 2007.

Fetal Alcohol Spectrum Disorders: Mechanisms of Damage and Potential Treatments. Presentation at the Dept. of Neurosciences, Texas Tech, Lubbock, Mar. 2008.

Current Research in Fetal Alcohol Spectrum Disorders: What do we know and where do we go from here? Building FASD State Systems, SAMHSA, Colorado Springs, May 2008.

Choline Mitigates the Teratogenic Effects of Ethanol. Genetics, Epigenetics, Diet and the Brain, Nutrition Research Institute, University of North Carolina, May 2008.

Choline Supplementation as a Treatment for Fetal Alcohol Spectrum Disorders, Presentation at the Research Society on Alcoholism meeting, Washington DC, June 2008.

Nutrition and FASD, Presentation at the International Fetal Alcohol Spectrum Disorders Conference, Victoria BC, Mar. 2009.

Updates on Research in Fetal Alcohol Spectrum Disorders, SAMSHA, Orlando, June 2009.

Choline as a Treatment for Fetal Alcohol Spectrum Disorders, Presentation at the Winter Brain Conference, Breckenridge, Jan. 2010.

Evidence-based Treatments for Fetal Alcohol Spectrum Disorders, International Conference on FASD, Ste Sault-Marie, MI, April 2010.

Exercising some control over how alcohol affects the brain? Research Society on Alcoholism. San Diego, CA, June, 2010.

Updates on Research in Fetal Alcohol Spectrum Disorders, SAMSHA, Orlando, July 2010.

Choline as a Treatment for Fetal Alcohol Spectrum Disorders, ISBRA, Paris, Sept. 2010. Alcoholism Clinical and Experimental Research Volume: 34 Issue: 8, Suppl. S Pages: 31A

Choline Availability and Fetal Alcohol Spectrum Disorders. International Society of Biomedical Research on Alcoholism, Oct. 2010.

Nutritional Interventions to Fetal Alcohol Spectrum Disorders. International FASD Conference, Atlanta, Oct. 2010.

Nutrition and FASD. Presentation at the 4th International Conference on FASD, The Power of Knowledge: Integrating Research, Policy, and Promising Practice Around the World, Vancouver, Mar. 2011

Choline as a Treatment for FASD: Choline as an epigenetic factor. Presentation at the 4th International Conference on FASD, The Power of Knowledge: Integrating Research, Policy, and Promising Practice Around the World, Vancouver, Mar. 2011

Current Research in Fetal Alcohol Spectrum Disorders, SAMHSA, Phoenix, Mar. 2011.

Mechanisms by which choline mitigates fetal alcohol spectrum disorders, Research Society on Alcoholism, Atlanta, June 2011, Alcoholism Clinical and Experimental Research Volume: 35 Issue: 8, Suppl., 274A.

FASD Research: What have we learned and where are we going? SAMHSA FASD Field Trainers Workshop, Anaheim, July 2011

How can we evaluate research in a world of mass media? SAMHSA FASD Field Trainers Workshop, Anaheim, July 2011

Fetal Alcohol Spectrum Disorders: Impact on Mother and Child. ADA Food and Nutrition Conference, San Diego, Sept. 2011

Choline as a Treatment for Fetal Alcohol Spectrum Disorders. Advances and Controversies in B vitamins and Choline, Leipzig, Germany, Mar. 2012

Updates on FASD Research: From Diagnosis to Treatment. SAMHSA FASD Field Trainers Meeting, San Diego, June 2012

Treatment Strategies for Fetal Alcohol Spectrum Disorders. FASD Conference, Sioux Falls, SD, Aug. 2012.

From Diagnosis to Treatment: Updates on FASD Research. International FASD Conference, Vancouver, BC, Feb. 2013.

Choline as a treatment for fetal alcohol spectrum disorders: Choline's effects on brain and behavior. European Society on Biomedical Research on Alcoholism, Warsaw, Poland. Sept. 2013

FASD and Nutrition: Fueling protection and recovery from FASD. Back (and to) the future: 40 years of prenatal alcohol exposure and FASD. Atlantic City, NJ, Sept. 2013.

Brain Research and FASD. Webinar for SAMSHA FASD Center for Excellence, March 13, 2014

Dietary nutrient intake is associated with hyperactivity among children with prenatal alcohol exposure. European FASD Conference, Rome, Oct. 2014.

FASD: From Diagnosis to Treatment. Norfleet Alcohol Symposium, University of Tennessee Health Science Center, April 30, 2015.

Treatments for FASD: From the lab to the kitchen table. Columbia University, March, 24, 2016.

Choline supplementation as a treatment for FASD: Effects on phospholipids. International Society on Biomedical Research on Alcoholism, Berlin, 2016.

Fetal Alcohol Spectrum Disorders: How nutritional factors modify the effects of early alcohol exposure, University of North Carolina, Sept. 28, 2016.

Treatments for Fetal Alcohol Spectrum Disorders: From the Lab to the Kitchen Table, Texas A & M, Jan. 31, 2017

Symposium Organization:

“Fetal Alcohol Effects: Treatments from Basic Science” (2004) International Society of Biomedical Research on Alcohol, Heidelberg, Germany, Sept. 29-Oct.2.

“Not safe at any age: Alcohol deregulation of neural stem cells and neurogenesis across the life span” (2006) Research Society on Alcoholism. Baltimore, Maryland, June 27.

RSA Lecture Series (2006) Research Society on Alcoholism. Baltimore, Maryland, June 27.  
Available at [www.rsalectures.com](http://www.rsalectures.com)

“Potential Therapeutic Interventions for Fetal Alcohol Spectrum Disorders: Recent Findings from Animal Models” (2008) Research Society on Alcoholism, Washington D.C., June 30.

RSA Lecture Series (2008) Research Society on Alcoholism, Washington D.C., June 27-28.  
Available at [www.rsalectures.com](http://www.rsalectures.com)

“Treatments for Fetal Alcohol Spectrum Disorders: Novel Pharmacological, Nutritional, and Environmental Interventions from Basic Science” (2010) International Society of Developmental Psychobiology, San Diego.

“Neuroprotection, rehabilitation, and regeneration of the alcohol-exposed CNS” (2012) Winter Conference on Brain Research, Snowbird, Utah, Jan. 21-26.

Selected Abstracts (from the last 5 years):

Idrus, N.M., Deford, N., Happer, J. & Thomas, J.D. (2010, June). Administration of vitamin D attenuates motor deficits associated with developmental alcohol exposure in rats. So Alcoholism: Clinical & Experimental Research, 34(6), Suppl., 214A. Annual Meeting of the Research-Society-on-Alcoholism. San Antonio, Texas.

**Monk, B.R.**, & Thomas, J.D. (2010, June). The effects of choline supplementation on cholinergic system development in rats exposed to alcohol during the brain growth spurt. Alcoholism: Clinical & Experimental Research, 34(6), Suppl., 156A. Annual Meeting of the Research-Society-on-Alcoholism. San Antonio, Texas.

Simmons, R.W., **Nguyen, T.T., Levy, S.S.**, Riley, E.P., & Thomas, J.D. (2010, June). Regulation of sustained isometric force in children with heavy prenatal alcohol exposure. Alcoholism: Clinical & Experimental Research, 34(6), Suppl., 96A. Annual Meeting of the Research-Society-on-Alcoholism. San Antonio, Texas.

Idrus, N.M., Happer, J.P., Smith, B.E., Wiley, V.G. & Thomas, J.D. (2010, September). Administration of vitamin D attenuates spatial working memory deficits associated with developmental alcohol exposure in rats. Alcoholism: Clinical & Experimental Research, 34(8), Suppl., 110A. World Congress of the International Society for Biomedical Research on Alcoholism, Paris, France.

**Cascio, C., DeFord, N., Nacach, Y., Idrus, N.M.**, & Thomas, J.D. (2010, September). Administration of betaine mitigates motor impairments associated with developmental ethanol exposure in rats. Alcoholism: Clinical & Experimental Research, 34(8), Suppl., 109A. World Congress of the International Society for Biomedical Research on Alcoholism, Paris, France.

**Dean, A., Smith, B., Tewodros, M., Sheehan, D.J., Idrus, N.** & Thomas, J.D. (2010, November). Donepezil hydrochloride attenuates hyperactivity associated with developmental ethanol exposure in rats. Society for Neuroscience Abstract Viewer, Vol. 40. Annual meeting of the Society for Neuroscience. San Diego, CA.

**Monk, B.R.** & Thomas, J.D. (2010, November). Effects of choline supplementation on cholinergic system development in rats exposed to alcohol during the brain growth

sput. Society for Neuroscience Abstract Viewer, Vol. 40. Annual meeting of the Society for Neuroscience. San Diego, CA.

**Nguyen, T. T.**, Simmons, R.W., **Levy, S.S.**, Thomas, J.D. & Riley, E.P. (2010, November). Regulation of isotonic force in children with and without heavy prenatal alcohol exposure. Society for Neuroscience Abstract Viewer, Vol. 40. Annual meeting of the Society for Neuroscience. San Diego, CA.

**Nguyen, T.T.**, Ashrafi, A., Simmons, R.W., **Levy, S.S.**, Thomas, J.D. & Riley, E.P. (2010, November). Frequency response characteristics of isometric force regulation in children with prenatal alcohol exposure. Society for Neuroscience Abstract Viewer, Vol. 40. Annual meeting of the Society for Neuroscience. San Diego, CA.

**Happer, J.**, Idrus, N.M., **Smith, B.E.**, **Vazquez, Y.**, Wiley, V.G. & Thomas, J.D. (2010, November). Hyperactivity associated with developmental alcohol exposure in rats is attenuated by vitamin D. Society for Neuroscience Abstract Viewer, Vol. 40. Annual meeting of the Society for Neuroscience. San Diego, CA.

Idrus, N.M., **Maghsoodloo, S.**, **Happer, J.**, Dominguez, H.D., & Thomas, J.D. (2010, November). Postnatal choline administration mitigates hyperactivity and motor deficits associated with neonatal alcohol exposure in the rat. Society for Neuroscience Abstract Viewer, Vol. 40. Annual meeting of the Society for Neuroscience. San Diego, CA.

**Sheehan, D. J.**, **Smith, B.**, **Dean, A.**, Idrus, N.M., & Thomas, J.D. (2010). Donepezil administration attenuates motor incoordination in rats exposed to ethanol during development. Society for Neuroscience Abstract Viewer, Vol. 40. Annual meeting of the Society for Neuroscience. San Diego, CA.

**Nguyen, T.T.**, Keen, C.L., Chambers, C.D. & Thomas, J.D. (2011, June). The effects of prenatal alcohol exposure on choline metabolism: Implications for how choline may moderate alcohol's teratogenic effects. Alcoholism: Clinical and Experimental Research, 35, Suppl. 171A. Annual meeting of the Research Society on Alcoholism. Atlanta, GA.

**Nguyen, T.T.**, Simmons, R.W., Levy, S.S., Mattson, S.N., Thomas, J.D., & Riley, E.P. (2011, September). Children with heavy prenatal alcohol exposure experience reduced control of isotonic force. NIAAA Training Directors Meeting and Trainee Workshop, Providence, RI.

**Nguyen, T.T.**, Keen, C., Chambers, C.D., & Thomas, J.D. (2012). The effects of prenatal alcohol exposure on choline metabolism: Implications for how choline may moderate alcohol's teratogenic effects. Children's Environmental Health Network Research Conference: The Contribution of Epigenetics in Pediatric Environmental Health, San Francisco, CA.

**Nguyen, T.T.**, Simmons, R.W., Mattson, S.N., Sowell, E.R., Thomas, J.D., & Riley, E.P. (2012, June). Neural correlates of force regulation in children with heavy prenatal alcohol exposure. Alcoholism: Clinical and Experimental Research. 36(1). Suppl., 278. Annual meeting of the Research Society on Alcoholism, San Francisco, CA.

Idrus, N.M., **Moranton, K.**, **Happer, J.P.**, Thomas, J.D. (2012, September). Vitamin D attenuates overactivity associated with developmental alcohol exposure in rats. Alcoholism Clinical and

Experimental Research. 36(2). Suppl. 110A. Scientific Meeting of the International Society for Biomedical Research on Alcoholism. Sapporo, Japan.

Idrus, N.M., Happer, J.P., Thomas, J.D. (2012, November). Cholecalciferol attenuates perseverative behavior associated with developmental alcohol exposure in rats. 15<sup>th</sup> Workshop on Vitamin D.

Thomas, J.D., Idrus, N.M., Murawski, N. (2012). Choline treatment during adolescence reduces working memory deficits associated with fetal alcohol spectrum disorders in rats. NADIA symposium, San Diego.

**Nguyen, T.T.,** Thomas, J.D., Riley, E.P., & Simmons, R.W. (2013, February). Goal-directed regulation of force in children with heavy prenatal alcohol exposure. Annual meeting of the International Neuropsychological Society, Waikoloa, HI.

Murawski N.J., Idrus N.M., Moranton K.J., and Thomas J.D. (2013, June). Postnatal choline supplementation attenuates the effects of developmental alcohol exposure on cholinergic systems in the mPFC and hippocampus. Alcoholism: Clinical and Experimental Research, 37(2). Suppl. 110A. Annual meeting of the Research Society on Alcoholism. Orlando, FL.

Thomas, J.D., Murawski, N.J., Risbud, R., Idrus, N.M. (2013, September). Choline as a treatment for fetal alcohol spectrum disorders: Choline's effects on brain and behavior. European Society on Biomedical Research on Alcoholism, Warsaw, Poland.

Murawski, N.J., Idrus, N.M., Moranton, K.J., Thomas, J.D. (2013, November). Effects of postnatal choline supplementation on fear extinction and cholinergic receptor densities in juvenile rats neonatally exposed to alcohol. No. 142.11. Annual Meeting of the Society for Neuroscience, San Diego, CA.

**Risbud, R.D., Moranton, K.J.,** Happer, J.P., Murawski, N.J., Idrus, N.M., Thomas, J.D. (2013, November). Chronic, but not acute, choline administration mitigates learning impairments caused by neonatal alcohol exposure. Program No. 154.16. Annual meeting of the Society for Neuroscience, San Diego, CA.

**Ngo, A., Sullivan, M., Issler, E.,** Thomas, J.D., Idrus, N. (2013, November) The effects of vitamin D on stress and anxiety in rats exposed to alcohol during development. Program No. 154.02. Annual Meeting of the Society for Neuroscience, San Diego, CA.

**Silva, P.,** Thomas, J.D., Idrus, N.M. (2013, November). Stereological analyses of cerebellar Purkinje cells following vitamin d administration in a rodent model of fetal alcohol spectrum disorders. Program No. 154.15. Annual Meeting of the Society for Neuroscience, San Diego, CA.

Schuebel, K., Mordi, I., Blackstone, K., Yuan, Q., Thomas, J.D., Goldman, D. (2013, December). Whole genome DNA cytosine methylation profiling in a rat model of fetal alcohol syndrome. American College of Neuropsychopharmacology, Hollywood, FL.

Thomas, J.D., Idrus, N.M., Schuebel, K., Goldman, D. (2014, February). Prenatal alcohol exposure alters choline metabolism: Implications for how choline may moderate alcohol's teratogenic effects. Gordon Conference on Molecular, Cellular, Circuit and Behavioral Actions of Ethanol, Galveston

**Nguyen, T. T., Risbud, R.D.,** Chambers, C., Thomas, J.D. (2014, June). Dietary nutrient intake is associated with hyperactivity among children with prenatal alcohol exposure. Alcoholism: Clinical and Experimental Research. 38(1), 253A. Annual Meeting of the Research Society on

Alcoholism, Bellevue, WA. **\*\*SELECTED AS A FINALIST FOR THE ENOCH GORDIS RESEARCH RECOGNITION AWARD**

**Taggart, T. C., Risbud, R. D.,** Thomas, J. D. (2014, June). Effects of neonatal and adolescent alcohol exposure on open field activity in rats. Alcoholism: Clinical and Experimental Research. 38(1) Suppl. 112A. Annual Meeting of the Research Society on Alcoholism, Bellevue, WA.

**Nguyen, T.T., Risbud, R.D.,** Chambers, C.D., Thomas, J.D. (2014, October). Dietary nutrient intake is associated with hyperactivity among children with prenatal alcohol exposure. European FASD Conference, Rome

Hamre, K.M, Dubose, C., Thomas, J.D., Van Ommone, C., Theberge, E., Boyle, J., Goldowitz, D. (2015, June). The genetics and choline mitigation of ethanol-induced cell death in the neural tube in the mouse. Annual Meeting of the Research Society on Alcoholism, San Antonio, TX.

Thomas, J.D., S. Balaraman, S., Idrus, N.M., Miranda, R.C. (2015, September) Postnatal choline supplementation modifies alterations in miRNAs induced by developmental alcohol exposure. European Society on Biomedical Research on Alcoholism, September, Valencia, Spain

**Inkelis, S.M., Moore, E.M.,** Grant, T.M., Thomas, J.D., Riley, E.P. (2016, June). Reduced basal ganglia and cerebellum volumes in adolescents and young adults with FASD. Annual meeting of the Research Society on Alcoholism \*Selected for FASDSG FASt Data presentation & Student Travel Award

Thomas, J.D., S. Balaraman, S., Idrus, N.M., Miranda, R.C. (2016, June) Postnatal choline supplementation modifies alterations in miRNAs induced by developmental alcohol exposure. Annual meeting of the Research Society on Alcoholism

Thomas, J.D., Idrus, N.M., Harris, G.L. (2016, June) Choline supplementation attenuates increased hippocampal ceramide levels associated with developmental alcohol exposure. Annual meeting of the Research Society on Alcoholism

Thomas, J.D., Jeanguenin, L., Herr, D.R., Walls, S.M. Idrus, N.M., Harris, G.L. (2016, September) Choline supplementation as a treatment for fetal alcohol spectrum disorders: Effects on phospholipids. Annual meeting of the International Society on Biomedical Research on Alcoholism

#### **Student-Oriented Conference Presentations (2012-2016):**

**Moranton, K., Happer, J.,** Thomas, J., Idrus, N.M. (2012). The effects of vitamin D on hyperactivity associated with developmental alcohol exposure. Poster presentation at SDSU Student Research Symposium, San Diego, California. February 2012.

**Ngo, A., Sullivan, M., Issler, E.,** Thomas, J.D., Idrus, N. (2013, March). The effects of vitamin D on stress in a rat model of fetal alcohol spectrum disorders. Poster presentation at SDSU Student Research Symposium, San Diego, California, USA,

**Risbud, R.D., Murawski, N.J., Idrus, N.M., Moranton, K.J.,** Thomas, J.D. (2013, March). Chronic choline supplementation mitigates the detrimental effects of third trimester equivalent alcohol exposure on cholinergic systems in the mPFC and hippocampus. Poster presentation at SDSU Student Research Symposium, San Diego, California, USA, March 2013. **\*\* WINNER OF PROVOSTS AWARD FOR OUTSTANDING POSTER PRESENTATION**



- Silva, P., Idrus, N.,** Thomas, J.D. (2013, March). Effect of vitamin D administration on cerebellar Purkinje cells following developmental alcohol exposure. Oral presentation at SDSU Student Research Symposium, San Diego, California, USA, March 2013.
- Rodriguez, C., Murawski, N.,** Thomas., J.D. (2014, March). The effects of alcohol exposure on temporal order object recognition. Paper presented at the annual meeting of the Student Research Symposium, San Diego State University, San Diego, CA.
- Potter, K., Moranton, K.,** Happer, J., Idrus, N., Thomas, J.D. (2014). Effects of donepezil on spatial learning in rats exposed to alcohol during development. Poster presented at the annual meeting of the Student Research Symposium, San Diego State University, San Diego, CA.
- Taggart, T. C., Risbud, R. D.,** & Thomas, J. D. (2014, March). Enduring behavioral consequences of neonatal and adolescent alcohol exposure. Paper presented at the annual meeting of the Student Research Symposium, San Diego State University, San Diego, CA. \*WINNER OF UNDERGRADUATE RESEARCH EXCELLENCE AWARD.
- Taggart, T. C., Moranton, K.,** Happer, J., Idrus, N., & Thomas, J. D. (2014, April). Donepezil effects on activity in rats developmentally exposed to alcohol. Poster presented at the annual conference of the Western Psychological Association, Portland, OR. \*WINNER OF PSI CHI REGIONAL TRAVEL GRANT. \*WINNER OF PSI CHI REGIONAL RESEARCH AWARD.
- Adame, C.M., Idrus, N.M.,** Happer, J.P., Thomas, J.D. (2014). Effects of donepezil on motor coordination in developmentally ethanol-exposed rats. Poster presented at the annual conference of the Western Psychological Association, Portland, OR. \*2014 WESTERN PSYCHOLOGICAL FOUNDATION STUDENT AWARD
- Risbud R.D.,** Thomas J.D. (2015). Neonatal alcohol exposure alters the effects of subsequent adolescent alcohol exposure on emotional development. Talk presented at Fetal Alcohol Spectrum Disorders Study Group (FASDSG), Research Society on Alcoholism (June 2015), San Antonio, TX
- Zamudio, B., Murawski, N.,** Thomas, J.D. (2015). Choline supplementation during early, but not late, postnatal development attenuates hyperactivity associated with developmental alcohol exposure. Talk at presented at the annual meeting of the Student Research Symposium, San Diego State University, San Diego, CA.
- Zamudio, B., Breit, K.,** Thomas, J.D. (2016) Effects of developmental cannabinoid exposure on behavioral development in rats. Talk at presented at the annual meeting of the Student Research Symposium, San Diego State University, San Diego, CA. \*\*WINNER OF THE PRESIDENT'S AWARD FOR OUTSTANDING RESEARCH
- Zamudio, B., Breit, K.,** Thomas, J.D. (2016) Effects of developmental cannabinoid exposure on behavioral development in rats. Selected for the Stanford Undergraduate Research Symposium.