CURRICULUM VITAE (2021)

GARY DOHANICH, Ph.D.

Professor, Department of Psychology, Program in Neuroscience Tulane University New Orleans, LA 70118 (504) 862-3307 dohanich@tulane.edu

EDUCATIONAL RECORD

B.S. in Psychology, Lehigh University, Bethlehem, PA (1974).

M.S. in Experimental Psychology, Villanova University, Villanova, PA (1977).

Ph.D. in Zoology, Michigan State University, East Lansing, MI (1981).

PROFESSIONAL APPOINTMENTS

Postdoctoral Fellow (National Institutes of Health NRSA), Rockefeller University, New York, NY, Dr. Bruce McEwen, major advisor (1982-1985)

Assistant Professor, Department of Psychology, Tulane University, New Orleans, LA (1985-1991)

Associate Professor, Department of Psychology, Tulane University, New Orleans, LA (1991-1997)

Full Professor, Department of Psychology, Tulane University, New Orleans, LA (1997-present)

Acting Chair, Department of Psychology, Tulane University, New Orleans, LA (F1995, F2006)

Associate Chair, Department of Psychology Tulane University, New Orleans, LA (2007-2012)

Director, Ph.D. Program in Neuroscience, Tulane University, New Orleans, LA (2016-Present)

Co-Director, Undergraduate Major in Neuroscience, Masters Programs in Neuroscience Tulane University, New Orleans, LA (2000-2015)

Executive Committee Member, Neuroscience Graduate Program, Tulane University, New Orleans, LA (2003-present)

Executive Committee Member, Gender and Sexuality Studies Program, Tulane University, New Orleans, LA (2001-2015)

MAJOR EXTRAMURAL RESEARCH SUPPORT

National Institutes of Health, 1982-1985, Postdoctoral National Research Service Award.

National Institute of Child Health and Human Development Grant, 1987-1991. Cholinergic Regulation of Sexual Behavior (R01 HD22235).

National Science Foundation, 1991-1995, *Cholinergic Regulation of Behavior*. National Science Foundation, 1993-2000, *Research Experiences for Undergraduates*.

Louisiana Board of Regents Education Quality Support Award, 1994, Enhancement of Psychobiology Laboratories for the Implementation and Instruction of Cellular and Molecular Techniques in the Investigation of Behavior.

National Science Foundation, 1995-1998, Estrogen Regulation of Learning and Memory. National Science Foundation, 1998-2002, Estrogen Regulation of Learning and Memory.

National Institutes of Health, 2000-2003, PI: David Gozal; Co-PIs: Avital Shurr and Gary Dohanich, *REM Deprivation*, *Hypoxia*, and *Hippocampal Function*.

Louisiana Board of Regents Enhancement Award, 2003-2004, Neurobiotechnology Laboratory for Graduate and Undergraduate Students.

Louisiana Board of Regents EPSCoR Award, 2010, Effects of Maternal Care and Prepubescent Stress on Cognitive Strategy.

National Science Foundation, 2012-2015, PI: Laura Schrader; Consultant: Gary Dohanich, Functional implications of stress-evoked changes in epigenetic mechanisms.

National Institutes of Mental Health, 2013-2018, PI: Benjamin Hall; Consultant: Gary Dohanich, Regulation of Protein Translation and Depression by Cortical NMDA Receptors.

HONORS AND AWARDS

The Student Senate Annual Award for Excellence in Teaching, College of Liberal Arts and Sciences, Tulane University, 1987, awarded to one LAS faculty member annually.

The Student Senate Annual Award for Excellence in Academic Advising, College of Liberal Arts and Sciences, Tulane University, 1988 and 2001, awarded to one LAS faculty member annually.

Mortar Board Salutes Excellence in Academics, Newcomb College, Tulane University, 1993, 1995, 1997, 1998, 1999, 2000, 2001, 2002, 2003.

Randolf C. Read Award for Excellence in Teaching, Liberal Arts and Sciences Faculty, Tulane University, 1995, awarded to two LAS faculty members annually.

Sheldon Hackney Award for Excellence in Teaching, Tulane University, 1996, awarded to one LAS faculty member annually.

Presidential Certificate for Undergraduate Interdisciplinary Teaching, President's Office, Tulane University, 2000, awarded to 5 TU faculty members.

Newcomb College Mortar Board Annual Award for Excellence in Teaching, Newcomb College, Tulane University, 2000, awarded to one LAS faculty member annually.

Tulane College Senior Class Outstanding Advisor Award for Exemplary Service to Students, Tulane College, 2001, awarded to one LAS faculty member annually.

Suzanne and Stephen Weiss Presidential Fellow for Inspired Teaching and Distinctive Contributions to Undergraduate Education, 2007, awarded to two faculty TU members annually.

Distinguished Newcomb Fellow, Newcomb College Institute, Tulane University, 2012, awarded to one Newcomb Fellow faculty member annually.

President's Award for Excellence in Graduate and Professional School Teaching, 2014, awarded to two TU faculty members annually.

Honors Professor of the Year, Honors Program, Tulane University, 2019-2020, awarded to one TU faculty member annually.

PUBLICATIONS

Peer-reviewed Empirical Journal Articles

Gladue, B.A., G.P. Dohanich, and L.G. Clemens. Hormonally-mediated lordosis in female rats: Actions of flutamide and an aromatization inhibitor. <u>Pharmacology Biochemistry and Behavior</u> 9:827-832, 1978.

Meisel, R.L., G.P. Dohanich, and I.L. Ward. Effects of prenatal stess on avoidance acquisition, open-field performance, and lordotic behavior. <u>Physiology and Behavior 22</u>:527-530, 1979.

Dohanich, G.P. and I.L. Ward. Sexual behavior in male rats following intracerebral application of estrogen. <u>Journal of Comparative and Physiological Psychology 94</u>:634-640, 1980.

Clemens, L.G., R.R. Humphrys, and G.P. Dohanich. Cholinergic brain mechanisms and the hormonal regulation of female sexual behavior in the rat. <u>Pharmacology Biochemistry and Behavior 13</u>:81-88, 1980.

Clemens, L.G. and G.P. Dohanich. Inhibition of lordotic behavior in female rats following intracerebral infusion of anticholinergic agents. <u>Pharmacology Biochemistry and Behavior 13</u>:89-95, 1980.

Clemens, L.G., G.P. Dohanich, and J.A. Witcher. Cholinergic influences on estrogen-dependent sexual behavior in female rats. <u>Journal of Comparative and Physiological Psychology 95</u>:763-770, 1981.

Dohanich, G.P. and L.G. Clemens. Brain areas implicated in cholinergic regulation of sexual behavior. <u>Hormones and Behavior 15</u>:157-167, 1981.

Dohanich, G.P., J.A. Witcher, D.R. Weaver, and L.G. Clemens. Alteration of muscarinic binding in specific brain areas following estrogen treatment. <u>Brain Research 241</u>:347-350, 1982.

Dohanich, G.P. and L.G. Clemens. Inhibition of estrogen-activated sexual behavior by androgens. <u>Hormones and Behavior 17</u>:366-373, 1983.

Dohanich, G.P., P.J. Barr, J.A. Witcher, and L.G. Clemens. Pharmacological and anatomical aspects of cholinergic activation of female sexual behavior. <u>Physiology and Behavior 32</u>: 1021-1026, 1984.

- Dohanich, G.P., J.A. Witcher, and L.G. Clemens. Prenatal antiandrogen feminizes behavioral but not neurochemical response to estrogen. <u>Pharmacology Biochemistry and Behavior 23</u>:397-400, 1985.
- Dohanich, G.P., A.E. Johnson, B. Nock, B.S. McEwen, and H.H. Feder. Distribution of cholinergic muscarinic binding sites in guinea pig brain as determined by in vitro autoradiography of [³H]N-methyl scopolamine binding. <u>European Journal of Pharmacology</u> 119:9-16, 1985.
- Dohanich, G.P., S. Halpain, L.T. Lambdin, and B.S. McEwen. Features of ligand binding in homogenate and section preparations. <u>Brain Research 366</u>:338-342, 1986.
- Dohanich, G.P. and B.S. McEwen. Cholinergic limbic projections and behavioral role of basal forebrain nuclei in the rat. <u>Brain Research Bulletin 16</u>:477-482, 1986.
- Meisel, R.L., G.P. Dohanich, B.S. McEwen, and D.W. Pfaff. Antagonism of sexual behavior in female rats by ventromedial hypothalamic implants of antiestrogen. <u>Neuroendocrinology</u> 45:201-207, 1987.
- Clemens, L.G., P.J. Barr, and G.P. Dohanich. Cholinergic regulation of female sexual behavior in rats demonstrated by manipulation of endogenous acetylcholine. <u>Physiology and Behavior</u> 45:437-442, 1989.
- Menard, C.S. and G.P. Dohanich. Scopolamine inhibition of lordosis in naturally cycling female rats. <u>Physiology and Behavior 45:</u>819-823, 1989.
- Dohanich, G.P. and D.A. Cada. Reversal of androgen-inhibition of estrogen-activated sexual behavior by cholinergic agents. <u>Hormones and Behavior 23:</u>503-513, 1989.
- Dohanich, G.P., D.M. McMullan, and M.M. Brazier. Cholinergic regulation of sexual behavior in female hamsters. Physiology and Behavior 47:127-131, 1990.
- Hunter, R.E., C.M. Barrera, G.P. Dohanich, and W.P. Dunlap. Effects of caffeine and uric acid on A1 adenosine receptor binding in developing rat brain, <u>Pharmacology Biochemistry and Behavior 35:</u>791-795, 1990.
- Menard, C. S. and G. P. Dohanich. Physostigmine facilitation of lordosis in naturally cycling female rats, <u>Pharmacology Biochemistry and Behavior 36</u>: 853-858, 1990.
- Dohanich, G. P., D. M. McMullan, D. A. Cada, and K. A. Mangum. Muscarinic receptor subtypes and sexual behavior in female rats, <u>Pharmacology Biochemistry and Behavior 38</u>:115-124, 1991.
- Menard, C. S., T. J. Hebert, S. M. Ross, and G. P. Dohanich. The effects of estrogen treatment on scopolamine inhibition of lordosis. <u>Hormones and Behavior 26</u>:364-374, 1992.
- Dohanich, G. P., S. M. Ross, T. J. Francis, A. J. Fader, B. E. F. Wee, M. M. Brazier, and C. S. Menard. The effects of a muscarinic antagonist on various components of female sexual behavior. Behavioral Neuroscience 107:819-826, 1993.
- Menard, C. S. and G. P. Dohanich. Estrogen dependence of cholinergic systems that regulate lordosis in cycling female rats. <u>Pharmacology Biochemistry and Behavior 48:417-421</u>, 1994.
- Hebert, T. J., M. F. Cashion, and G. P. Dohanich. The effect of hormonal treatment and history on scopolamine inhibition of lordosis. <u>Physiology and Behavior 56:</u>835-839, 1994.

- Dohanich, G. P., A. J. Fader, and D. J. Javorsky. Estrogen and estrogen/progesterone treatments counteract the effect of scopolamine on T-maze performance in female rats. <u>Behavioral Neuroscience 108:</u>988-992, 1994.
- Menard, C. S., T. J. Hebert, G. P. Dohanich, and R. E. Harlan. Androgenic-anabolic steroids modify β-endorphin immunoreactivity in the rat brain. <u>Brain Research 669:</u>255-262, 1995.
- Hebert, T. J., C. S. Menard, and G. P. Dohanich. Inhibition of lordosis in female hamsters and rats by 8-OH-DPAT treatment. <u>Physiology and Behavior 57:</u>523-527, 1995.
- Wee, B. E. F., T. J. Francis, Lee, C. Y. Lee, J. M. Lee, and G. P. Dohanich. Mate preference and avoidance in female rats following treatment with scopolamine. <u>Physiology and Behavior 58</u>:97-100, 1995.
- Daniel, J. M., A. J. Fader, A. Spencer, and G. P. Dohanich. Estrogen enhances performance of female rats during acquisition of a radial arm maze. Hormones and Behavior 32:217-225, 1997.
- Dohanich, G. P., J. M. Daniel, A. J. Fader, S. C. Wolff, P. M. Gallogly, and D. M. Overstreet. Sexual behaviors of Flinders Line female rats bred for differential cholinergic sensitivies. Hormones and Behavior 33:77-84, 1998.
- Fader, A. J., A. W. Hendricson, and G. P. Dohanich. Estrogen improves performance of reinforced T-Maze alternation and prevents the amnestic effects of scopolamine administered systemically or intrahippocampally. <u>Neurobiology of Learning and Memory 69:</u>225-240, 1998.
- Fader, A. J., P. E. M. Johnson, and G. P. Dohanich. Estrogen improves working but not reference memory and prevents amnestic effects of scopolamine on a radial-arm maze. Pharmacology, Biochemistry, and Behavior 62:711-717, 1999.
- Daniel, J. M., S. L. Roberts, and G. P. Dohanich. Effects of ovarian hormones and environment on radial maze and water maze performance of female rats, <u>Physiology and Behavior 66</u>:11-20, 1999.
- Gozal, D., J. M. Daniel, and G. P. Dohanich. Behavioral and anatomical correlates of chronic episodic hypoxia during sleep in the rat. <u>Journal of Neuroscience 21</u>:2442-2459, 2001.
- Daniel, J. M. and G. P. Dohanich. Acetylcholine modulates the estrogen-induced increase in NMDA receptor binding in CA1 of the hippocampus and the associated improvement in working memory. <u>Journal of Neuroscience 21</u>:6949-6956, 2001.
- Hruska, Z. and G. P. Dohanich. Estradiol treatment prevents working memory deficits induced by combined infusion of β-amyloid (1-42) and ibotenic acid. Hormones and Behavior 52:297-306, 2007.
- Row, B. W. and G. P. Dohanich. Post-training administration of corticotropin-releasing hormone (CRH) enhances retention of a spatial memory through a noradrenergic mechanism in male rats. <u>Neurobiology of Learning and Memory 89</u>:370-378, 2008.
- Wolff, S. C., Z. Hruska, L. Nguyen, and G. P. Dohanich. Asymmetrical distributions of muscarinic receptor binding in the hippocampus of female rats. <u>European Journal of Pharmacology 588</u>:248-50, 2008.

- Frankola, K. A, A. L. Flora, A. K. Torres, E. M. Grissom. S. Overstreet, and G. P. Dohanich. Effects of early rearing conditions on cognitive performance in prepubescent male and female rats. <u>Neurobiology of Learning and Memory 94</u>:91-99, 2010.
- Tunur, T., G. P. Dohanich, and L. A.Schrader. Pre-exposure to context affects learning strategy selection in mice. <u>Learning and Memory 17</u>:328-331, 2010.
- Hawley, W. R., E. M. Grissom, and G. P. Dohanich. The relationships between trait anxiety, place recognition memory, and learning strategy. <u>Behav. Brain Research 216</u>:525–530, 2011.
- Hawley, W., E. Grissom, L. Keskitalo, T. Hastings, and G. Dohanich. Sexual motivation and anxiety-like behaviors of male rats after exposure to a trauma followed by situational reminders. Physiology and Behavior 102:181–187, 2011.
- Hawley, W. R., E. M. Grissom, H. E. Barratt, T. S. Conrad, and G. P. Dohanich. The effects of biological sex and gonadal hormones on learning strategy in adult rats. <u>Physiology and Behavior</u> 105:1014–1020, 2012.
- Cost, K. T., Z. N. Williams-Yee, J. N. Fustok, and G. P. Dohanich. Sex differences in object-in-place memory of adult rats. <u>Behavioral Neuroscience 126</u>:457-464, 2012.
- Grissom, E. M, W. R. Hawley, S. S. Bromley-Dulfano, S. E. Marino, N. G. Stathopoulos, and G. P. Dohanich. Learning strategy is influenced by trait anxiety and early rearing conditions in prepubertal male, but not prepubertal female rats. <u>Neurobiology of Learning and Memory 98</u>:174-181, 2012.
- Hawley, W. R., E. M. Grissom, J. M. Patel, K. S. Hodges, and G. P. Dohanich. Reactivation of an aversive memory impairs spatial recognition memory and biases rats toward striatum-dependent learning strategies. <u>Stress 16</u>:73-86. 2013.
- Hawley, W. R, E. M. Grissom, M. N. Belkin, T. F. James, and G. P. Dohanich. Decreased sexual motivation and heightened anxiety in male rats are correlated with the memory for a traumatic event. <u>Archives of Sexual Behavior 42:659-668</u>, 2013.
- Grissom, E. G., W. R. Hawley, K. S. Hodges, J. M. Fawcett-Patel, and G. P. Dohanich. Biological sex influences learning strategy preference and muscarinic receptor binding in specific brain regions of prepubertal rats. <u>Hippocampus 23</u>:313-322, 2013.
- Hawley, W. R, E. M. Grissom, R. C. Martin, M. B. Halmos, C. L. Bart, and G. P. Dohanich. Testosterone modulates spatial recognition memory in male rats. <u>Hormones and Behavior</u> 63:559-565, 2013.
- Ferland, C. L., W. R. Hawley, R. E. Puckett, K. Wineberg, F. D. Lubin, G. P. Dohanich, and L. A. Schrader. Sirtuin activity in dentate gyrus contributes to chronic stress-induced behavior and extracellular signal-regulated protein kinases 1 and 2 cascade changes in the hippocampus. Biological Psychiatry 74:927-35, 2013.
- Cost, K. T., T. D. Lobell, Z. N. Williams-Yee, S. Henderson, and G. Dohanich. The effects of pregnancy, lactation, and primiparity on object-in-place memory of female rats. <u>Hormones and Behavior 65:32-39</u>, 2014.

- Hawley, W. R., E. M. Grissom, N. M. Moody, G. P. Dohanich, and N. Vasudevan. Activation of G-protein-coupled receptor 30 is sufficient to enhance spatial recognition memory in ovariectomized rats. Behavioral Brain Research 262:68-73, 2014.
- Serefoglu, E. C., W. R. Hawley, G. F. Lasker, E. M. Grissom, S. H. Mandava, S. C. Sikka, G. P. Dohanich, and W. J. Hellstrom. Effect of botulinum-A toxin injection into bulbospongiosus muscle on ejaculation latency in male tats. <u>Journal of Sexual Medicine</u> 11:1657-1663, 2014.
- Mueller, S. C., E. M. Grissom, and G. P. Dohanich. Assessing gonadal hormone contributions to affective psychopathologies across humans and animal models. <u>Psychoneuroendocrinology</u> 46:114-128, 2014.
- Hawley, W. R., C. F. Witty, J. M. Daniel, and G. P.Dohanich. Choline acetyltransferase in the hippocampus is associated with learning strategy preference in adult male rats. <u>Behavioural</u> Brain Research 289:118-124, 2015.
- Nahar, J., J. Haam, C. Chen, Z. Jiang, N. R. Glatzer, L. J. Muglia, G. P. Dohanich, J.P. Herman, and T. G. Tasker. Rapid nongenomic glucocorticoid actions in male mouse hypothalamic neuroendocrine cells are dependent on the nuclear glucocorticoid receptor. <u>Endocrinology156</u>:2831-2842, 2015.
- Nahar, J., J. R. Rainville, G. P. Dohanich, and T. G. Tasker. Further evidence for a membrane receptor that binds glucocorticoids in the rodent hypothalamus. <u>Steroids 114</u>:33-40, 2016.
- Homiack, D., E. O'Cinneide, S. Hajmurad, G. P. Dohanich, and L. A. Schrader. Effect of acute alarm odor exposure and biological sex on generalized avoidance and glutamatergic signaling in the hippocampus of Wistar rats. <u>Stress 21</u>:292-303, 2018.
- Grissom, E.M., W.R. Hawley, and G.P Dohanich. Organizational effects of testosterone on learning strategy preference and muscarinic receptor binding in prepubertal rats. <u>Hormones and Behavior 110:1-9</u>, 2019.

Invited Reviews and Chapters

- Clemens, L. G., G. P. Dohanich, and P. J. Barr. Cholinergic regulation of feminine sexual behavior in laboratory rats. In <u>Hormones and Behavior in Higher Vertebrates</u>, edited by J. Balthazart, E. Prove, and R. Gilles, Springer-Verlag, Berlin Heidelberg, pp 56-68, 1983.
- Dohanich, G. P., B. Nock, and B. S. McEwen. Steroid hormones, receptors, and neurotransmitters. In <u>Molecular Mechanisms of Steroid Hormone Action</u>, edited by V.K. Moudgil, Walter de Gruyter and Company, Berlin-New York, pp.701-732, 1985.
- Dohanich, G. P. Cholinergic regulation of female sexual behavior. In <u>Neurobiological Effects of Sex Steroid Hormones</u>, edited by P. Micevych and R. Hammer. New York: Cambridge University Press, pp. 184-206, 1995.
- Dohanich, G. P. Gonadal steroids, learning, and memory. In <u>Hormones, Brain and Behavior</u>, edited by D. W. Pfaff, A. P. Arnold, A, M. Etgen, S. E. Fahrbach, and R. T. Rubin. San Diego: Academic Press (Elsevier Science), Volume 2, pp. 265-327, 2002.

Dohanich, G. P. Ovarian steroids and cognitive function. <u>Current Directions in Psychological Science 12</u>:57-61, 2003.

Luine, V. N. and G. P. Dohanich. Sex differences in cognitive function in rodents. In <u>Sex Difference in the Brain: From Genes to Behavior</u>, edited by J. Becker et al., Oxford University Press, pp. 227-251, 2008.

Dohanich, G. P., D. L. Korol, and T. Shors. Steroids, learning and memory. In <u>Hormones, Brain and Behavior</u>, (Second Edition, Vol. 1), edited by D. W. Pfaff, A. P. Arnold, A, M. Etgen, S. E. Fahrbach, and R. T. Rubin. San Diego: Academic Press, pp. 539-576, 2009.

Mueller, S. C., E. M. Grissom, and G. P. Dohanich. Assessing gonadal hormone contributions to affective psychopathologies across humans and animal models. <u>Psychoneuroendocrinology</u>, 46:114-128, 2014.

COURSES TAUGHT AT TULANE UNIVERSITY

PSYC 337 (Motivation and Behavior)	Fall 1985,1986
PSYC 100 (Introductory Psychology)	Spring 1986,1987
PSYC 347 (Brain and Behavior)	Fall 1987,1988,1989,1990,1991,1994 2002; Spring 1993, 1995, 1998, 2000
PSYC 628/630 (Psychobiology)	Fall 1985,1986,1989,1990,1991; Spring 1994,1995,1996,1997, 1998
PSYC 629 (Psychopharmacology)	Spring1985,1986,1987,1988,1990,1991,1992; Fall 1993,1994,1995,1996,1997,1998
PSYC/NSCI 653/654 (Psychopharmacology)	Fall 1999,2000,2001,2002,2003,2004,2006 2007,2008,2009,2010,2011,2012,2013, 2014, 2015,2016,2017,2018; Spring 2006
PSYC/NSCI 655/656 (Behavioral Endocrinology)	Spring 2000,2001,2002,2003,2004,2005,2006, 2008,2009,2010,2012,2014,2016,2019
PSCY 710 (Grad. Psychopharmacology)	Spring 1991,1992,2006,2007; Fall 1993,1995,1997,1998,1999,2001,2003, 2007,2010,2012
PSYC/NSCI 723 (Professional Issues)	Fall 2006,2007,2008,2009,2015,2016
NSCI 759 (Neurobiology of Stress Disorders)	Spring 2008,2009,2011
NSCI 600/601 (Methods in Neuroscience)	Fall 2004; Spring 2005
NSCI 604 (Trends in Neuroscience)	Spring 2008,2009; Fall 2008

PSYC 4070 (Drugs and Behavior) Fall 2011

COLQ 3010 (Gender and Sexuality) Spring 2011,2012,2013

NSCI/PSYC 4960 (Biology of Human Sexuality) Spring 2013, 2014

PSYC 6590 (Stress and Trauma) Spring 2015,2017

PSYC 7230 (Professional Issues in Psychology) Fall 2015,2016,2017

PSYC/SCEN 7240 (College Teaching Pedagogy) Fall 2014,2015,2016,2017,2018

PSYC 7241 (College Teaching Practicum) Spring 2015,2016,2017,2018,2019

DIRECTED DOCTORAL DISSERTATIONS

Robert Hunter – *Uric acid and adenosine binding in young rats: A model of hyperactivity (1987)*

Cheryl Menard—Estrogen-dependent cholinergic regulation of sexual receptivity in intact cycling female rats (1991) (Associate Professor and Head of Psychology, University of Louisiana at Lafayette)

Thomas Hebert – Gonadal steroid regulation of NADPH-diaphorase histochemistry in the male and female rat brain (1996) (Senior Professor of Practice of Psychology, Tulane University)

Aric Fader – The effects of estrogen delivered to the medial preoptic area and hippocampal formation on spatial performance in a radial arm maze (2000) (Senior Medical Writer, MedVal Scientific)

Jill Daniel – The role of acetylcholine in the estrogen-induced increase in hippocampal NMDA receptor binding and in the associated enhancement of working memory performance (2000) (Professor of Psychology and Director of the Tulane Brain Institute, Tulane University)

Barry Row – *Role of corticotropin-releasing hormone in the modulation of spatial memory (1999)* (Assistant Professor, University of Louisville)

Zuzana Hruska – Effects of estrogen treatment on working memory impairments induced by betaamyloid and ibotenic acid in female rats (2003) (Faculty, Geosystems Research Institute)

Wayne Hawley – Modulation of spatial cognition in adult rats by biological sex, gonadal steroids, affective conditions, and cholinergic neurotransmission (2013) (Associate Professor, Edinboro University)

Elin Grissom – The relationships between sex differences in learning strategy in early life and neurochemical and neuroarchitectural endpoints in multiple memory systems (2013) (Associate Professor, Loyola University of New Orleans)

Katherine Cost – Spatial ability during pregnancy and motherhood in rats and humans: A comparative study (2013) (Faculty Member, Department of Psychiatry, University of Toronto)

BIOGRAPHICAL SKETCH

Dr. Gary Dohanich is a professor of Psychology and Neuroscience at Tulane University in New Orleans, Louisiana. Dr. Dohanich received his BS in Psychology from Lehigh University, his MS in Physiological Psychology from Villanova University, and his PhD in Zoology from Following a postdoctoral fellowship in the Laboratory of Michigan State University. Neuroendocrinology at Rockefeller University, he joined the Tulane faculty in 1985. His work focuses on the roles of gonadal and adrenal hormones as moderators of cognitive, affective, and reproductive functions. Complementary interests include the impact of biological sex on the development and expression of behavior. He has published 70 research articles, scholarly reviews, and book chapters, and held grants from the National Institutes of Health and the National Science Foundation. Dr. Dohanich is the co-founder and co-director of Tulane's major and masters programs in Neuroscience. He is the recipient of many of Tulane University's highest teaching awards, including the 1995 Randolf C. Read Award for excellence in teaching, the 1996 Sheldon Hackney Award for excellence in teaching, the 2007Suzanne and Stephen Weiss Presidential Fellowship for distinctive contributions to undergraduate education, and the 2014 President's Award for Excellence in Graduate and Professional School Teaching.