

CURRICULUM VITAE

Geert J. de Vries

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Positions

- *Director of the Center for Neuroendocrine Studies*, Univ. of Massachusetts, Amherst, '01-present
- *Professor*, Dept. Psychology, Univ. of Massachusetts, Amherst, '95-present
- *Visiting Scholar*, Dept of Integrative Biology and Physiology, UCLA, '10
- *Head*, Behavioral Neuroscience Division, Dept Psychology, Univ. of Massachusetts, Amherst, 98-04
- *Associate Professor*, Dept. Psychology, Univ. of Massachusetts, Amherst, '91- 95
- *Assistant Professor*, Dept. of Psychology, Univ. of Massachusetts, Amherst, '87 -'91
- *Lecturer*, Dept. Psychobiology, Univ. of California, Irvine, '87
- *Adjunct Lecturer*, Dept. Psychobiology, Univ. of California, Irvine, '85-'86
- *Scientific Staff Member*, Netherlands Institute for Brain Research, Amsterdam, NL, '80-'84
- *Teaching Assistant*, Histol. & Medical Chem., School of Med, Free Univ., Amsterdam, NL, '76-'79
- *Research Assistant*, Dept. of Gynecology, Free Univ., Amsterdam, NL, '76-'78

Education

- *Postdoctoral Fellow*, '85-'87, Dept. Psychobiology, University of California, Irvine.
- *Ph.D.*, '85, University of Amsterdam, School of Medicine
- *Doktoraal Examen*, '80, Free University, Amsterdam, *cum laude*. Major: Neurobiology, Minor: Biochemistry
- *Kandidaats Examen*, '76, Free University, Amsterdam, *cum laude*. Majors: Biology and Medicine, Minors: Chemistry and Physics

Honors

- *President-Elect* of the Organization for the Study of Sex Differences (OSSD), '10-'15
- *President* of the Society for Behavioral Neuroendocrinology, '03-'09
(6 year term: 2 years as President Elect, 2 years as President, 2 years as Past President)
- *Distinguished Editorial Panel*, National Institutes of Health, '09
- *Chair Theme E (Homeostatic and Neuroendocrine Systems)*, Society for Neuroscience Program Committee, '09-'10
- *Fellow* of the International Behavioral Neuroscience Society, '00
- *Independent Scientist Award*, NIH, MH01497, '03-'08
- *Independent Scientist Award*, NIH, MH01497, '98-'03
- *Lilly Teaching Fellow*, '92-'93

Affiliations

- Graduate Programs at UMass in Neuroscience and Behavior, Molecular and Cellular Biology, and Organismic and Evolutionary Biology
- International Behavioral Neuroscience Society
- Society for Neuroscience
- Nederlandse Vereniging ter Bevordering van Geneeskunde en Natuurwetenschappen (Dutch Society for the Advancement of Medicine and Natural Sciences)
- Society for Behavioral Neuroendocrinology
- Organization for the Study of Sex Differences

RESEARCH

Research support

Federal Funding

Program Director

- *NIH institutional training grant*, T32 MH020051 (06-10), Training in Neuroendocrinology, \$935,649. Jul '06 -Jun '11. **CURRENT**
- *NIH institutional training grant*, T32 MH020051 (01-05), Training in Neuroendocrinology, \$768,675. Jul '00 -Jun '05.

Principal Investigator

- *NIH research grant*, RO1 MH047538 (14-18), The Neural Basis of Sexually Dimorphic Brain Function. \$1,739,247. Jun '09-Mar '14. **CURRENT**
- *NSF research grant*, IBN 9421658, Neural Basis of Social Behavior. \$360,000. Aug '08-Jul'11. **CURRENT**
- *NIH Independent Scientist Award*, KO2 MH01497, The Neural Basis of Sexually Dimorphic Brain Function. \$610,900. Jun '03-May '08. (also listed under Honors)
- *NIH research grant*, RO1 MH047538 (09-13), The Neural Basis of Sexually Dimorphic Brain Function (included supplement to fund underrepresented minorities). \$1,365,897. Jun '02-May '07.
- *Subcontract of NIMH grant RO1 MH59268*, Genetic Determinants of Brain Sexual Differentiation, PI: Arthur P. Arnold, UCLA, to University of Massachusetts. \$314,623. Jan '99-Dec '02.
- *NIH Independent Scientist Award*, KO2 MH01497-06, The Neural Basis of Sexually Dimorphic Brain Function. Projected total costs \$521,653. Jun '98-May '03. (also listed under Honors)
- *NIH research grant*, RO1 MH047538 (04-08), The Neural Basis of Sexually Dimorphic Brain Function, (included supplement to fund underrepresented minorities). \$1,018,151. Mar '95-Apr '01
- *NSF research grant*, IBN 9421658, Neuropeptide Control of Steroid Hormone Sensitive Functions and Behaviors, \$323,734. Apr '95-Mar '98
- *NSF supplement to grant*, IBN 9421658, for Research Experience for Undergraduates Students, \$5,000. Summer '97
- *NIH research grant*, RO1 MH047538 (01-03), Neural Basis of Sexual Differentiation of Brain Function, \$454,544. Mar '91-Feb '95
- *NSF research grant*, BNS 8809799, Neural Circuitry Mediating Steroid Effects on Behavior, \$240,000. Aug '88-Jul '91.
- *NIH Postdoctoral Fellowship*, MH09470-01, Hormone Effects on Brain Structure and Function. Jul '86-Jun '88 (also mentioned under Honors)

Co-Investigator

- *NIMH grant*, R01 MH068482-01, Cell Death and Sexual Differentiation, 1,645,413. Jun '09-May '14, Research Grant, PI: Nancy Forger. **CURRENT**
- *NSF grant*, IOS-0642050 "Social Control of CNS Morphology in a Eusocial Mammal", \$365,991. August '07- July '11, PI: Nancy Forger. **CURRENT**
- *NSF SGER grant* IOS 0809914 (2008-2009) "SGER: Support of research involving captive spotted hyenas" \$200,000. All funds are used to maintain hyena colony at UC Berkeley Campus. Dec 2007-Nov 2009. PI: Stephen E. Glickman
- *NIMH grant*, R01 MH068482-01, Cell Death and Sexual Differentiation, \$1,002,121. Apr '04-Mar '08, Research Grant, PI: Nancy Forger
- *NSF grant*, IOS-0344312, Sexual Differentiation in Eusocial Mammals, \$402,491. Apr '04-Mar '08, PI: Nancy Forger
- *NIMH grant S15 MH50998-01*, with Jerrold S. Meyer, Small Instrument. Grant \$21,446. direct costs, Sep '92-Aug '93

Sponsor

- *NIH grant F31 MH63603*, Neural Basis of Parental Behavior. \$50,028. Predoctoral grant to Benjamin Rood, Feb '02 –Jan '04.
- *NIH grant F31 MH11686*, Sexual Differentiation of Vasopressin Expression. \$52,962. Predoctoral grant to Tina M. Han, Aug '98-Jul '01.
- *NIH grant F32 HD08392*, Neural Control of Social Behaviors in Prairie Voles. Total cost final year \$81,336. Postdoctoral grant to Joseph S. Lonstein. Dec '97-Nov '00.

Intramural Funds and Foundations

- *Faculty Research Grant*, Neural Basis of Parental Behavior, \$4800, Dec '92-Dec '93
- *BRSR*, RR07048-24, Role of lineage in determining neurotransmitter content and specific connections of developing neurons, \$5,000, Apr '89-Mar '90
- *BRSR*, RR07048-22, Neural Basis of Sex Steroid Action on Brain Function and Behavior, \$5,000, Nov '87-Apr '88
- *Van Houtenfonds* and *Adriaan Remmert van der Laan Fonds*, both to support publication thesis, Jan '85
- *Twinning Grant of the European Training Program in Brain and Behavioral Research* (TW/84311), together with Per Södersten, Karolinska Institutet, Huddinge, Sweden, Jun '84

Book / Special Issues edited

- Sex Differences in the Brain. Relation between Structure and Function, G.J. De Vries, J.P.C. De Bruin, H.B.M. Uylings, M.A. Corner (eds.) *Progress in Brain Res.*, Vol. 61, Elsevier, Amsterdam (1984), 517pp.
- Translational Topics in Behavioral Neuroendocrinology, G.J. de Vries and M.M. McCarthy (eds.) *Special Issue of Hormones and Behavior*, Vol. 50 (4), 152 pp.

Publications

Papers in Refereed Journals

1. Van Minnen J, *De Vries GJ*. **1980**. Effects of extirpation of one lateral lobe of the pond snail *Lymnea stagnalis* on the neurosecretory activities of the canopy cell and the droplet cells in the remaining lobe. *Proc Kon Ned Akad Wet*, Series C, 83: 187-193.
2. Boer GJ, Buijs RM, Swaab DF, *De Vries GJ*. **1980**. Vasopressin and the developing rat brain. *Peptides* 1, Suppl 1: 203-209.
3. *De Vries GJ*, Buijs RM, Swaab DF. **1981**. Ontogeny of the vasopressinergic neurons of the suprachiasmatic nucleus and their extrahypothalamic projections in the rat brain - presence of a sex difference in the lateral septum. *Brain Res* 218: 67-78.
4. Salt TE, *De Vries GJ*, Rodriguez RE, Cahusac PMB, Morris R, Hill RG. **1982**. Evaluation of (D-Pro 2, D-Trp 7,9)-substance P as an antagonist of Substance P responses in the rat central nervous system. *Neurosci Lett* 30: 291-295.
5. *De Vries GJ*, Best W, Sluiter AA. **1983**. The influence of androgens on the development of a sex difference in the vasopressinergic innervation of the rat lateral septum. *Dev Brain Res* 8: 377-380.
6. *De Vries GJ*, Buijs RM. **1983**. The origin of the vasopressinergic and oxytocinergic innervation of the rat brain; with special reference to the lateral septum. *Brain Res* 273: 307-317.
7. *De Vries GJ*, Buijs RM, Sluiter AA. **1984**. Gonadal hormone actions on the morphology of the vasopressinergic innervation of the adult rat brain. *Brain Res* 298: 141-145.
8. Pevet P, *De Vries GJ*. **1984**. Pijnappelklier, daglengte en voortplanting in zoogdieren. *Vakl voor Biol* 64: 65-69.

9. Van Leeuwen FW, Caffé AR, *De Vries GJ*. **1985**. Vasopressin cells in the bed nucleus of the stria terminalis of the rat sex differences and the influences of androgens. *Brain Res* 325: 391-394.
10. *De Vries GJ*, Buijs RM, Van Leeuwen FW, Caffé AR, Swaab DF. **1985**. The vasopressinergic innervation of the brain in normal and castrated rats. *J Comp Neurol* 233: 236-254.
11. Caffé AR, Van Leeuwen FW, Buijs RM, *De Vries GJ*, Geffard M. **1985**. Coexistence of vasopressin, neurophysin and noradrenaline immunoreactivity in medium-sized cells of the locus coeruleus and subcoeruleus of the rat. *Brain Res* 338: 160-164.
12. Södersten P, *De Vries GJ*, Buijs RM, Melin P. **1985**. A daily rhythm in behavioural vasopressin sensitivity and brain vasopressin concentrations. *Neurosci Lett* 58: 37-41.
13. Fliers E, *De Vries GJ*, Swaab DF. **1985**. Changes with aging in the vasopressinergic and oxytocinergic innervation of the brain. *Brain Res* 348: 1-8.
14. Buijs RM, Pevet P, Pool CW, *De Vries GJ*, Canguilhem B, Vivien-Roels B. **1986**. Seasonal variation in vasopressin innervation in the brain of the European hamsters. *Brain Res* 371: 193-196.
15. Södersten P, Boer GJ, *De Vries GJ*, Buijs RM, Melin P. **1986**. Effects of vasopressin on female sexual behavior in male rats. *Neurosci Lett* 69: 188-191.
16. *De Vries GJ*, Duetz W, Van Heerikhuizen J, Buijs RM, Vreeburg JTM. **1986**. Androgen and estrogen influences on the vasopressinergic innervation of the rat brain. *Brain Res* 399: 296-302.
17. *De Vries GJ*, Gonzales CL, Yahr P. **1988**. Afferent connections of the sexually dimorphic area of the hypothalamus of male and female gerbils. *J Comp Neurol* 271: 91-105.
18. *De Vries GJ*. **1990**. Sex differences in neurotransmitters in the brain. *J Neuroendocrinol* 2: 1-13.
19. Ferris EL, Gold L, *De Vries GJ*, Potegal M. **1990**. Evidence for a functional and anatomical relationship between the lateral septum and the hypothalamus in the control of flank marking behavior in golden hamsters. *J Comp Neurol*. 293: 476-485.
20. *De Vries GJ*, Al-Shamma HA. **1990**. Sex differences in hormone sensitivity of vasopressin pathways in the rat brain. *J Neurobiol* 21: 686-693.
21. Bittman EL, Bartness TJ, Goldman BD, *De Vries GJ*. **1991**. Suprachiasmatic and paraventricular control of photoperiodism in Siberian hamsters. *Amer J Physiol* 260 R90-R101.
22. Al-Shamma HA, *De Vries GJ*. **1991**. Fiber outgrowth from fetal vasopressin neurons of the suprachiasmatic nucleus, bed nucleus of the stria terminalis and medial amygdaloid nucleus, transplanted into adult Brattleboro rats. *Dev Brain Res* 64: 200-204.
23. Miller MA, *De Vries GJ*, Al-Shamma HA, Dorsa DM. **1992**. Decline of vasopressin immunoreactivity and messenger RNA levels in the bed nucleus of the stria terminalis following castration. *J Neurosci* 12: 2881-2887.
24. Crenshaw BJ, *De Vries GJ*, Yahr PI. **1992**. Vasopressin innervation of sexually dimorphic structures of the gerbil forebrain under various hormonal conditions. *J Comp Neurol* 322: 589-598.
25. Boyd SK, Tyler CJ, *De Vries GJ*. **1992**. Sexual dimorphism in the vasotocin system of the bullfrog (*Rana catesbeiana*). *J Comp Neurol* 325:313-325.
26. Bamshad M, Novak MA, *De Vries GJ*. **1993**. Sex and species differences in the vasopressin innervation of sexually naive and parental prairie voles, *Microtus ochrogaster* and meadow voles, *Microtus Pennsylvanicus*. *J Neuroend* 5: 247-255.
27. Albeck D, Bullock NA, Mars K, Cooper R, Smock T, *De Vries GJ*. **1993**. Antidromic activation of a peptidergic pathway in the limbic system of the male rat. *Brain Res* 606:171-174.
28. Wang ZX, Bullock NA, *De Vries GJ*. **1993**. Sexual differentiation of vasopressin projections of the bed nucleus of the stria terminalis and medial amygdaloid nucleus in rats. *Endocrinology*, 132: 2299-2306.
29. Brot MD, *De Vries GJ*, Dorsa DM. **1993**. Local implants of testosterone metabolites regulate vasopressin mRNA in sexually dimorphic nuclei of the rat brain. *Peptides* 14: 933-941.
30. Li HY, Blaustein JD, *De Vries GJ*, Wade GN. **1993**. Estrogen receptor-immunoreactivity in hamster brain: preoptic area, hypothalamus and amygdala. *Brain Res* 631: 304-312.
31. Wang ZX, *De Vries GJ*. **1993**. Testosterone effects on paternal behavior and vasopressin immunoreactive projections in prairie voles (*Microtus ochrogaster*). *Brain Res* 631:156-160.

32. Finn PD, *De Vries GJ*, Yahr P. **1993**. Efferent projections of the sexually dimorphic area of the gerbil hypothalamus: anterograde identification and retrograde verification in males and females. J Comp Neurol 338: 491-520.
33. *De Vries GJ*, Wang ZX, Bullock NA, Numan S. **1994**. Sex differences in the effects of testosterone and its metabolites on vasopressin messenger RNA levels in the bed nucleus of the stria terminalis of rats. J Neurosci 14: 1789-1794.
34. Wang ZX, Ferris CF, *De Vries GJ*. **1994**. The role of septal vasopressin innervation in paternal behavior in prairie voles (*Microtus ochrogaster*). Proc Nat Acad Sci USA 91: 400-404.
35. Zhou L, Blaustein JD, *De Vries GJ*. **1994**. Distribution of androgen receptor immunoreactivity in vasopressin-immunoreactive and oxytocin-immunoreactive neurons in the male rat brain. Endocrinology 134: 2622-2627.
36. Bamshad M, Novak MA, *De Vries GJ*. **1994**. Cohabitation alters vasopressin innervation and paternal behavior in Prairie voles, *Microtus Ochrogaster*. Physiol Behav, 56:751-758.
37. Wang ZX, Smith W, Major DE, *De Vries GJ*. **1994**. Sex and species differences in the effects of cohabitation on vasopressin messenger RNA expression in the bed nucleus of the stria terminalis in prairie voles (*Microtus ochrogaster*) and meadow voles (*Microtus pennsylvanicus*). Brain Res 650: 212-218.
38. Tyler CJ, Fite KV, *De Vries GJ*. **1995**. Distribution of GAD-like immunoreactivity in the retina and central visual system of *Rana pipiens* J Comp Neurol 353: 439-450.
39. Ferris CF, Delville Y, Miller MA, Dorsa DM, *De Vries GJ*. **1995** Distribution of small vasopressinergic neurons in golden hamsters. J Comp Neurol 360:589-598.
40. Wang ZX, *De Vries GJ*. **1995**. Differences in androgen and estrogen actions on vasopressin mRNA expression in the medial amygdaloid nucleus in male and female rats. J Neuroendocrinol 7:827-831.
41. Al-Shamma HA, *De Vries GJ*. **1996**. Neurogenesis of the sexually dimorphic vasopressin cells of the bed nucleus of the stria terminalis and amygdala of rats. J Neurobiol 29:91-98
42. Bittman EL, Jetton AE, Villalba C, *De Vries GJ*. **1996**. Effects of photoperiod and androgen on pituitary function and neuropeptide staining in Siberian hamsters Am J Physiol 271: R64-R72.
43. Ricciardi KHN, Turcotte JC, *De Vries GJ*, Blaustein JD. **1996**. Efferent projections from the ovarian steroid receptor-containing area of the ventrolateral hypothalamus in female guinea pigs. J Neuroendocrin 8: 673-685.
44. Wersinger SR, Sannen K, Villalba C, Lubahn DB, Rissman EF, *De Vries GJ*. **1997**. Masculine sexual behavior is disrupted in male and female mice lacking a functional estrogen receptor alpha gene. Horm Behav 32: 176-183.
45. Villalba C, Boyle PA, *De Vries GJ*. **1997**. Effects of the selective serotonin reuptake inhibitor, fluoxetine, on social behaviors in male and female prairie voles (*Microtus ochrogaster*). Horm Behav 32: 184-191.
46. *De Vries GJ*, Boyle PA. **1998**. Double duty for sex differences in the brain. Behav Brain Res 92: 205-213.
47. Delville Y, *De Vries GJ*, Roche JP, Schwartz WJ, and Ferris CF. **1998**. Flank marking behavior and the neural distribution of vasopressin innervation in golden hamsters with suprachiasmatic lesions. Behav Neurosci 112: 1486-1501.
48. Huang L, *De Vries GJ*, Bittman EL. **1998**. Photoperiod regulates neuronal bromodeoxyuridine labeling in the brain of a seasonally breeding mammal. J Neurobiol 36: 410-420.
49. Wagner CK, Nakayama AY, *De Vries GJ*. **1998**. Potential role of maternal progesterone in the sexual differentiation of the brain. Endocrinology 139: 3658-3661.
50. Lonstein JS, *De Vries GJ*. **1999**. Comparison of the parental behavior of pairbonded female and male prairie voles (*Microtus ochrogaster*). Physiol Behav 66:33-40.
51. Han TM, *De Vries GJ*. **1999**. Neurogenesis of galanin cells in the bed nucleus of the stria terminalis and centromedial amygdala: A model for sexual differentiation of neuronal phenotype. J Neurobiol 38: 491-498.
52. Lonstein JS, *De Vries GJ*. **1999**. Sex differences in the parental behavior of adult virgin prairie voles: independence from gonadal hormones and vasopressin. J Neuroendocrinol 11: 441-449.

53. Jin X, Shearman LP, Weaver DR, Zylka MJ, *De Vries GJ*, Reppert SM. **1999**. A molecular mechanism regulating rhythmic output from the suprachiasmatic circadian clock. *Cell* 96: 57-68.
54. Villalba C, Auger CL, *De Vries GJ*. **1999**. Androstenedione effects on the vasopressin innervation of the rat brain. *Endocrinology* 140: 3383-3386.
55. Lonstein JS, Wagner CK, *De Vries GJ*. **1999**. Comparison of the "nursing" behaviors of maternal virgin and postpartum lactating female rats. *Horm Behav* 36: 242-251.
56. Chung WCJ, Swaab DF, *De Vries GJ*. **2000**. Apoptosis during sexual differentiation of the bed nucleus of the stria terminalis in the rat brain. *J Neurobiol* 43: 234-243.
57. Delville Y, *De Vries GJ*, Ferris CF. **2000**. Neural connections of the anterior hypothalamus and agonistic behavior in golden hamsters. *Brain Behav Evol* 55: 53-76.
58. Lonstein JS, *De Vries GJ*. **2000**. Influence of gonadal hormones on the development of parental behavior in adult virgin prairie voles (*Microtus ochrogaster*). *Behav Brain Res*, 114: 79-87.
59. Lonstein JS, *De Vries GJ*. **2000**. Maternal behaviour stimulates c-fos in glutamate decarboxylase-synthesizing neurons of the medial preoptic area, ventral bed nucleus of the stria terminalis, and ventrocaudal periaqueductal gray. *Neuroscience*, 100: 557-568.
60. Lonstein JS, Greco B, *De Vries GJ*, Stern JM, Blaustein JD. **2000**. Maternal behavior stimulates *c-fos* activity with estrogen receptor alpha-containing neurons in lactating rats. *Neuroendocrinology*, 72: 91-101.
61. Lonstein JS, *De Vries GJ*. **2000**. Sex differences in the parental behavior of rodents. *Neurosci Biobehav Rev*, 24: 669-686.
62. Lonstein JS, *De Vries GJ*. **2001** Social influences on parental and nonparental responses toward pups in virgin female prairie voles (*Microtus ochrogaster*). *J Comp Psychol* 115: 53-61.
63. Wagner CK, Pfau JL, *De Vries GJ*, Merchenthaler IJ. **2001**. Sex differences in progesterone receptor immunoreactivity in neonatal mouse brain depend on estrogen receptor alpha expression. *J Neurobiol* 47: 176-182.
64. Chung WCJ, *De Vries GJ*, Swaab DF. **2002**. Sexual differentiation of the bed nucleus of the stria terminalis in humans may extend into adulthood. *J Neurosci* 22: 1027-1033.
65. Lonstein JS, Rood BD, *De Vries GJ*. **2002**. Parental responsiveness is feminized after neonatal castration in virgin male prairie voles, but is not masculinized by perinatal testosterone in virgin females. *Horm Behav* 41: 80-87.
66. Quadros PS, Lopez V, *De Vries GJ*, Chung WCJ, Wagner CK. **2002**. Progesterone receptors and the sexual differentiation of the medial preoptic nucleus. *J Neurobiol* 51: 24-32.
67. Auger CA, *De Vries GJ*. **2002**. Progesterone receptor immunoreactivity within steroid-responsive vasopressin-immunoreactive cells in the male and female rat brain. *J Neuroend*, 14: 561-567.
68. Quadros PS, Pfau JL, Goldstein AYN, *De Vries GJ*, Wagner CK. **2002**. Sex differences in progesterone receptor expression: A potential mechanism for estradiol-mediated sexual differentiation. *Endocrinology* 143:3727-3739
69. Quadros PS, Goldstein AYN, *De Vries GJ*, Wagner CK. **2002**. Regulation of sex differences in progesterone receptor expression in the medial preoptic nucleus of postnatal rats. *J Neuroendocrinol* 14:761-767.
70. *De Vries GJ*, Rissman EF, Simerly RB, Yang LY, Scordalakes EM, Auger CJ, Swain A, Lovell-Badge R, Burgoyne PS, Arnold AP. **2002**. A model system for study of sex chromosome effects on sexually dimorphic neural and behavioral traits. *J Neurosci* 22: 9005-9014.
71. Han TM, *De Vries GJ*. **2003**. Organizational effects of testosterone, estradiol, and dihydrotestosterone on vasopressin mRNA expression in the bed nucleus of the stria terminalis. *J Neurobiol*. 54: 502-510.
72. Markham JA, Jurgens HA, Auger CJ, *De Vries GJ*, Arnold AP, Juraska JM. **2003**. Sex differences in mouse cortical thickness are independent of the complement of sex chromosomes. *Neuroscience* 116: 71-75.
73. Lonstein JS, Dominguez JM, Putnam SK, *De Vries GJ*, Hull EM. **2003**. Intracellular preoptic and striatal monoamines in pregnant and lactating rats: possible role in maternal behavior. *Brain Res* 970: 149-158.

74. Wagner CK, Xu J, Pfau JL, Quadros PS, *De Vries GJ*, Arnold AP. **2004**. Neonatal mice possessing an Sry transgene show a masculinized pattern of progesterone receptor expression in the brain independent of sex chromosome status. Endocrinology, 145: 1046-1049.
75. *De Vries GJ*. **2004**. Sex differences in adult and developing brains; compensation, compensation, compensation. Endocrinology, 145: 1063-1068.
76. Forger NG, Rosen GJ, Waters EM, Jacob D, Simerly RB, *de Vries GJ*. **2004**. Deletion of Bax eliminates sex differences in the mouse forebrain. Proc Nat Acad Sci USA 101:13666-13671.
77. Lonstein JS, Rood BD, *De Vries GJ*. **2005**. Unexpected effects of perinatal gonadal hormone manipulations on sexual differentiation of the extrahypothalamic arginine-vasopressin system in prairie voles. Endocrinology 146: 1559-1567.
78. *De Vries GJ*. **2005**. Sex steroids and sex chromosomes at odds? Endocrinology 146: 3277-3279.
79. *De Vries GJ*, Panzica GC. **2006**. Sexual differentiation of central vasopressin and vasotocin systems in vertebrates: different mechanisms, similar endpoints. Neuroscience 138: 947-955.
80. Rosen GJ, *De Vries GJ*, Villalba C, Weldele ML, Place NJ, Coscia EM, Glickman SE, Forger NG. **2006**. The distribution of vasopressin in the forebrain of spotted hyenas, J Comp Neurol 498: 80-92.
81. *De Vries GJ*, McCarthy MM. **2006**. Translational research in Behavioral Neuroendocrinology. Horm Behav 50: 503.
82. Rosen GJ, *De Vries GJ*, Goldman SL, Goldman BD, Forger NG. **2007**. Distribution of vasopressin in the brain of the eusocial naked mole-rat. J Comp Neurol, 500: 1093-1105.
83. Hayes UL, *De Vries GJ*. **2007**. Role of pregnancy and parturition in induction of maternal behavior in prairie voles (*Microtus ochrogaster*). Hormones and Behavior, 51: 265-272.
84. Holmes MM, Rosen GJ, Jordan CL, *De Vries GJ*, Goldman BD, Forger NG. **2007**. Social control of brain morphology in a eusocial mammal. Proc Nat Acad Sci USA, 104: 10548-10552.
85. Rood BD, Murray EK, Laroche J, Yang MK, Blaustein JD, *De Vries GJ*. **2008**. Absence of progestin receptors alters distribution of vasopressin fibers but not sexual differentiation of vasopressin system in mice. Neuroscience 154: 911-921.
86. *De Vries GJ*, Jardon D, Reza M, Rosen GJ, Immerman E, Forger NG. **2008**. Sexual differentiation of vasopressin innervation of the brain: cell death versus phenotypic differentiation. Endocrinology, 149: 4632-4637
87. Rosen GJ, *De Vries GJ*, Goldman SL, Goldman BD, Forger NG. **2008**. distribution of oxytocin in the brain of a eusocial rodent. Neuroscience, 155: 809-817.
88. De Vries GJ, Södersten P. **2009**. Sex differences in the brain: The relation between structure and function. Horm Behav 55: 589-596
89. Murray EK, Hien A, *De Vries GJ*, Forger NG. **2009**. Epigenetic control of sexual differentiation of the BNSTp of mice. Endocrinology 150: 4241-4247.
90. McCarthy MM, Auger AP, Bale TL, *De Vries GJ*, Dunn GA, Forger NG, Murray EK, Nugent BM, Schwarz JM, Wilson ME. **2009**. The epigenetics of sex differences in the brain. J Neurosci 29: 12815-12823.
91. Rood BD, *De Vries GJ*. Vasopressin innervation of the mouse (*Mus musculus*) brain. J Comp Neurol. Revision submitted.
92. Forger NG, *De Vries GJ*. **2010**. Cell Death and the Sexual Differentiation of Behavior: Worms, Flies, and Mammals. Curr Opin Neurobio, October 7, Epub ahead of print.

Chapters in Books and Book Series

93. *De Vries GJ*, Best W. **1983**. Gonadal steroids and the development of a sex difference in the vasopressinergic innervation of the brain. In: Endroszi et al. (eds.) Neuropeptides, Neurotransmitters and Regulation of Endocrine Processes Akademiai Kiado, Budapest. pp. 135-143.
94. Buijs RM, *De Vries GJ*, Van Leeuwen FW, Swaab DF. **1983**. Vasopressin and oxytocin: distribution and putative functions in the brain. Prog Brain Res, Vol 60. pp. 115-122.
95. Van Leeuwen FW, *De Vries GJ*. **1983**. Enkephalin-glia interaction and its consequence for vasopressin and oxytocin release from the rat neural lobe. Prog Brain Res, Vol 60. pp. 343-351.

96. *De Vries GJ, Buijs RM, Van Leeuwen FW. 1984.* Sex differences in vasopressin and other neurotransmitter systems in the brain. Prog Brain Res, Vol 61. pp. 185-203.
97. Buijs RM, *De Vries GJ, Van Leeuwen FW. 1985.* The distribution and synaptic release of oxytocin in the central nervous system. In: J.A. Amico (ed.) Oxytocin: Clinical and Laboratory Aspects. Elsevier, Amsterdam.
98. Van Leeuwen FW, *De Vries GJ. 1985.* Vasopressin and oxytocin binding sites in the rat brain, kidney and mammary gland as demonstrated by light microscopic autoradiography. In: Kobayashi et al. (eds.) Neurosecretion and Biology of Neuropeptides, Japan Scientific Society Press, Tokyo and Springer Verlag, Berlin. pp. 287-294.
99. *De Vries GJ, Al-Shamma SA, Goodness TP, Brewer J. 1990.* Gradual effects of steroids on brain function and vasopressin pathways. In: Balthazart TJ (ed.), Hormones, Brain and Behavior. Comparative Physiology, Karger Berlin, Vol. 8. pp 180-190.
100. *De Vries GJ, Crenshaw BD, Al-Shamma HA. 1992.* Gonadal steroid modulation of vasopressin pathways. In: Pedersen C et al. (eds.) Oxytocin in Maternal, Sexual, and Social Behaviors." Ann NY Acad Sci 652: 387-396.
101. *De Vries GJ, Al-Shamma HA, Zhou L. 1994.* The sexually dimorphic vasopressin innervation of the brain as a model for steroid modulation of neuropeptide transmission. In: Luine VN and Harding CF (eds.) Hormonal Restructuring of the Adult Brain. Basic and Clinical Perspectives Ann NY Acad Sci 743: 95-120.
102. *De Vries GJ. 1995.* Studying neurotransmitter systems to understand development and function of sex differences in the brain; the case of vasopressin. In: Micevych P, and Hammer RP (eds.) Neurobiological Effects of Sex Steroid Hormones Cambridge University Press. pp. 254-278.
103. Ferris CF, *De Vries GJ. 1997.* Ethological models for examining the neurobiology of aggressive and affiliative behaviors. In: Stoff DM, Breiling J, Maser JD (eds.) Handbook of Antisocial Behavior, John Wiley and Sons. pp. 255-268.
104. *De Vries GJ, Villalba C. 1997.* Brain sexual dimorphism and sex differences in parental and other social behaviors. In: Carter CS, Kirkpatrick B, Lederhendler II (eds.) The Integrative Neurobiology of Affiliation. Ann. N.Y. Acad. Sci. pp. 273-286.
105. *De Vries GJ, Miller MA. 1998.* Anatomy and function of extrahypothalamic vasopressin systems in the brain. In: Urban IJA, Burbach, JPH, De Wied D (eds.) Progress in Brain Research, Vol 119. pp. 3-20.
106. Wang Z, Young LJ, *De Vries GJ, Insel TR. 1998* Voles and vasopressin: a review of molecular, cellular and behavioral studies of pair bonding and paternal behaviors. In: Urban IJA, Burbach, JPH, De Wied D (eds.) Prog Brain Res, Vol 119. pp. 483-499.
107. *De Vries GJ, Simerly RB. 2002* Anatomy, Development, and Function of Sexually Dimorphic Neural Circuits in the Mammalian Brain. In: Hormones, Brain, and Behavior. Volume IV. Development of Hormone-Dependent Neuronal Systems. (DW Pfaff, AP Arnold, AM Etgen, SE Fahrbach, RL Moss, and RT Rubin, eds). Academic Press, San Diego, pp. 137-191.
108. Arnold AP, Rissman EF, *De Vries GJ. 2003* Two Perspectives on the Origin of Sex Differences in the Brain. Ann NY Acad Sci, 1007: 177-188.
109. *De Vries GJ. 2006* Sex Differences in Neurotransmitter Innervation; Vasopressin as an Example. In: Abel Lajtha (Editor-in-Chief), Blaustein JD (Section Editor), Handbook of Neurochemistry and Molecular Neurobiology, Behavioral Neurochemistry and Neuroendocrinology, 3rd Edition, Springer Verlag, pp. 487-512.
110. *De Vries GJ. 2008.* Sex differences in vasopressin and oxytocin innervation of the brain. In: Neumann ID, Landgraf R (eds.) Progress in Brain Research, Vol 170. pp. 17-27.
111. McCarthy MM, *De Vries GJ, and Forger NG. 2009.* Sexual Differentiation of the Brain: Mode, Mechanisms, and Meaning. In: DW Pfaff, AP Arnold, AM Etgen, SE Fahrbach, RT Rubin (eds.) Hormones, Brain and Behavior, 2nd edition, Vol 3. San Diego: Academic Press; 2009. pp. 1707-1744.
112. *De Vries GJ. 2010.* The neural basis of gender. In: George Koob, Michel Le Moal and Richard Thompson (Editors-in-Chief) Atkins-Regan E (Section Editor) Encyclopedia of Behavioral Neuroscience. pp. 320-326

Invited book review:

113. *De Vries GJ. 1994.* "Hormones and behavior" Review of Behavioral Endocrinology, edited by Jill B. Becker, S. Marc Breedlove, and David Crews. Contemp. Psychology 39: 752-754.

Invited lectures

- *Dutch Society for Endocrinology*, Utrecht, The Netherlands, Oct 18, 1980
- *University of Bristol*, Dept. of Pharmacology, UK, Feb 2, 1982
- *Congress on Integrative Neurohumoral Mechanisms*, Budapest, Hungary, Mar 25, 1982
- *International Symposium on Sexual Differentiation*, Carmel, CA, Mar 24, 1983
- *The Salk Institute*, La Jolla, California, Mar 24, 1983
- *University of California at Los Angeles*, Dept. of Anatomy, Mar 25, 1983
- *Erasmus University.*, Dept. of Endocrinology, Growth and Development, Rotterdam, The Netherlands, Jul 21, 1983
- *13th International Summer School of Brain Research*, Amsterdam, The Netherlands, Aug 23, 1983
- *University of Groningen*, Dept. of Zoology, The Netherlands, Feb 21, 1984
- *Rockefeller University*, New York, Oct 2, 1984
- *Cornell University*, Depts. of Veterinary Medicine and Psychology, Ithaca, NY, Oct 17, 1984
- *Loma Linda University*, Dept. of Physiology, Loma Linda, CA, Oct 3, 1985
- *Rutgers University*, Institute of Animal Behavior, Newark, NJ, Feb 25, 1986
- *University of California at Los Angeles*, Depts of Anatomy and Psychology, Apr 18, 1986
- *National Institute of Mental Health*, Bethesda, MD, Jan 29, 1987
- *University of California at Berkeley*, Dept. of Psychology, Mar 4, 1987
- *Oregon State University*, Dept. of Zoology, Corvallis, Mar 5, 1987
- *University of Massachusetts*, Dept. of Psychology, Amherst, Mar 9, 1987
- *University of Maryland*, Dept. of Zoology, College Park, Mar 24, 1987
- *Rutgers University*, Dept. of Biological Sciences, Piscataway, NJ, Mar 25, 1987
- *Northwestern University*, Dept. of Neurobiology and Physiology, Evanston, IL, Apr 16, 1987
- *California Institute of Technology*, Div. of Technology, Pasadena, Jun 2, 1987
- *Smith College*, Dept. of Psychology, Northampton, MA, Feb 11, 1988
- *Boston University*, Dept. of Biology, Boston, MA, Mar 30, 1988
- *21st Int. Meeting of the Soc. Develop. Psychobiol.*, Symp. on Steroid Effects on Brain Dev., Toronto, Nov. 12, 1988
- *International Symposium on Hormones, Brain and Development*, Liege, Belgium, Aug 17, 1989
- *Georgia State University*, Dept. of Biology, Atlanta, GA, Jan 12, 1989
- *22nd Meeting of European Neuroscience Association*, Stockholm, Sweden, Sept. 11, 1990
- *University of Connecticut*, Dept. Physiol. and Neurosciences, Storrs, CT, Oct. 3, 1990
- *Michigan State University*, Neuroscience Program, East Lansing, MI, Oct. 4, 1990
- *H.F. Guggenheim Foundation Workshop* on "The Neural Basis of Aggressive Behaviors; Appraisal of our Current Insights and Methods", Seville, Spain, Nov 12-16, 1990
- *University of Kentucky*, Dept. Anatomy, Lexington, KY, Mar 14, 1991
- *Lehigh University*, Dept. Psychol, Bethlehem, PA, Jan 25, 1991
- *N.Y. Acad. Sci. Conf. on 'Oxytocin in Maternal, Sexual and Social Behaviors'*. May 20-22, Arlington, VA, 1991
- *Yale University*, Dept. Obstetrics and Gynecology, New Haven, CT, Nov 1, 1991
- *Great Lake Fishery Committee Workshop* on Sexual Differentiation, Chicago, Ill, Mar 29, 1992
- *Lilly Research Laboratories*, Lilly Corporate Center, Indianapolis, Nov 6, 1992
- *Boston Area Behavioral Neuroscience Study Group*, Key note address, Holy Cross College, Worcester, MA, Apr 15, 1993
- *5th Annual Convention of the American Psychological Society*, Invited symposium on the Proximate Causes of Parental Care, Chicago, IL, Jun 28, 1993
- *Rutgers University*, Institute of Animal Behavior, Newark, NJ, Oct 27, 1993

- *University of Massachusetts, Medical School, Dept Psychiatry, Worcester, MA, Feb 3, 1994*
- *Netherlands Institute for Brain Research, Amsterdam, NL, Mar 11, 1994*
- *European Winter Conference for Brain Research, Aime la Plagne, France, Mar 17, 1994*
- *Neuropeptide Summer Conference, Martha's Vineyard, June 5-9, 1994*
- *Conference in Reproductive Behavior, Workshop on Neuroanatomical Techniques, Lehigh University, June 18-22, 1994*
- *Harvard Medical School, New England Regional Primate Research Center, Southboro, MA, Sep 16, 1994*
- *Winter Conference on Brain Research, Steamboat Springs, CO, Jan 21-28, 1995*
- *Boston College, Dept Psychology, Chestnut Hill, MA, Mar, 1995*
- *Loyola University, College of Medicine Dept. Cell Biol, Neurobiol. & Anat., Maywood, IL, Sept. 25, 1995*
- *University of Pennsylvania, Institute for Neurological Sciences, Philadelphia, PA Jan. 24, 1996*
- *N.Y. Acad. Sci. Conf. on 'The Integrative Neurobiology of Affiliation.' March 14-17, Washington, DC, 1996*
- *Conference on Reproductive Behavior, Montreal, Canada, Jun 15-18, 1996*
- *Behavioral and Cognitive Neuroscience Summerschool, Groningen, The Netherlands, Jul 1-5, 1996*
- *Neural Systems and Behavior Course, Marine Biological Laboratory, Woods Hole MA. Aug 14, 1996*
- *51^o Congresso Nazionale della Societa Italiana de Antomia. Torino, Sep 28- Oct 2, 1997*
- *Third Conference of Society for Behavioral Neuroendocrinology, Presidential Symposium, Charlottesville, VA, Jun 28, 1999*
- *University of Virginia, Neuroscience Program, Charlottesville, VA, Sep 21, 1999*
- *University of Maryland, Dept Biology, College Park, MD, Nov 18, 1999.*
- *University of Connecticut, Dept Physiology and Neuroscience, Storrs, CT, Nov 10, 1999.*
- *Emory University, 1st Colloquium of the Ctr for Behavioral Neuroscience, Atlanta, GA, Feb 15, 2000*
- *Tufts University, Dept of Biomedical Sciences, North Grafton, MA, Sep 7, 2000*
- *Shriver Center for Mental Retardation, Waltham, MA, Nov 28, 2000.*
- *Arizona State University, Dept Biology, Tempe, AZ, Dec 1, 2000*
- *Winter Conference on Brain Research, Steamboat Springs, CO, Jan 21, 2001*
- *American Neuroendocrine Society Meeting, Neuroendocrine Workshop on Hormones, Mood and Behavior, Breckenridge, CO, Jun 17, 2001*
- *University of California, Berkeley, Neuroscience Program, Berkeley, CA, Aug 31, 2001*
- *Florida State University, Tallahassee, FL, Nov 7, 2001*
- *Baker Research Seminar, Florida State University, Tallahassee, FL, Nov 8, 2001*
- *Workshop on Steroid Hormones, Breckenridge, CO, Mar 22, 2002*
- *Skidmore College, Biology Dept, Seratoga Springs, NY, Apr 4, 2002*
- *Netherlands Institute for Brain Research, Jan 16, 2003*
- *American Neuroendocrine Society, Workshop on the Neuroendocrinology of Development, Philadelphia, Jun 16, 2003*
- *Dalhousie University, Halifax, NS, Aug 7, 2003*
- *Cornell University, Dept Neurobiology & Behavior, Ithaca, NY, Mar 11, 2004*
- *Fifth Annual Meeting on Sex and Gene Expression, Society for Women's Health Research, Winston Salem, NC, Mar 26, 2004*
- *Workshop on Steroid Hormones, Breckenridge, CO, Mar 31, 2004*
- *Symposium on Neural Basis of Social Behavior, XIX International Congress of Zoology, Beijing, Aug 23, 2004*
- *Café Scientifique, Organized by "New Scientist" Red Line Bar, Boston, MA, Sep 28, 2004*
- *Harvard University, Brigham and Women's Hospital, Boston, MA, Oct 13, 2004*
- *Northwestern University, Center for Reproductive Science, Evanston, IL, Nov 8, 2004*
- *Concordia University, Ctr for Studies in Behavioral Neurobiology, Montreal, CA, Nov 18, 2004*
- *3rd Intl Meeting on Steroids and Nervous System, Villa Gualino, Torino, IT, Feb 17, 2005*
- *15th International Congress on Comparative Endocrinology, Boston, May 27, 2005*

- *National Science Foundation Workshop*, Rodents as Integrative Models in Animal Behavior, Arlington, VA, Aug 14, 2005
- *Harvard University*, Radcliffe Institute for Advanced Study Exploratory Seminar; Understanding the Genetics of Sex Effects in Clinical Medicine, Cambridge, MA, Sep 19, 2005
- *Karolinska Institutet*, Postgraduate Course in Neuroendocrinology, Stockholm, Nov 7, 2005
- *Emory University*, Frontiers in Neuroscience Seminar Series, Mar 9, 2006
- *31st Annual Meeting of the American Society for Andrology*, Chicago, IL, April 11, 2006
- *Michigan State University*, Neuroscience Program, April 21, 2006
- *36th Annual Conference of Behavior Genetics Association*, Storrs, CT, June 23, 2006
- *88th Annual Meeting of the Endocrine Society*, Endo 2006, Boston, MA, June 25, 2006
- *12th European Neuroendocrine Association*, Athens, Greece, Oct 23, 2006
- *Annual Meeting of the International Academy of Sex Research*, Vancouver, CA, Aug 9, 2007
- *Plenary Lecture at 7th World Congress on Neurohypophysial Hormones*, Regensburg, Germany, Sep 19, 2007
- *2008 Workshop on Steroid Hormones and Brain Function*, Key Largo, FL, Apr 11, 2008
- *Animal Behavior Month*, Dept Biological Sciences, Miami University, Oxford, OH, Apr 17, 2008
- *BIRCWH Program*, Harvard University, Brigham and Women's Hospital, Boston, MA, May 15, 2008
- *Sapporo Medical University*, Department of Urology, September 13, 2008
- *13th Meeting of the European NeuroEndocrine Association (ENEA 2008)*, Antalya, Turkey, Oct 18, 2008
- *7th Conference of Hormones, Brain, and Behavior*, Torino, Italy, Feb 13, 2009
- *Workshop on Sex Differences Caused by Direct Sex Chromosome Effects vs. Hormones: Designing and Interpreting Studies from Mouse and Human Models. 13th Meeting of the Society for Behavioral Neuroendocrinology*, East Lansing, MI, Jun 24, 2009.
- *7th Symposium Neuroendocrinology*, 'De neuroendocrinologie van eten en drinken', Utrecht, The Netherlands, Nov 11, 2009
- *UCLA*, LNE Program, Department of Integrative Biology and Physiology, Feb 5, 2010
- *RIKEN Brain Institute*, Wako City, Saitama, Japan, Mar 25, 2010
- *International Conference of Endocrinology*, Kyoto, Japan, Mar 27, 2010
- *Netherlands Institute for Brain Research*, Amsterdam, June 18, 2010

TEACHING

Courses taught

At UMass

- Graduate Courses: Core Class of the Neuroscience and Behavior Program on Anatomy, Physiology, and Behavior (includes lab)*; Neuroanatomical Basis of Behavior (includes lab)
- Graduate/Undergraduate Seminars: On variety of topics, for example: Neuroimmunology, Stress, Epigenetics & Behavior*; Epigenetic Control of Brain Development*; Cell Death and Differentiation*; Landmark Papers in Sexual Differentiation*; Landmark Papers in Neuroendocrinology, Neuropeptides and Cytokines
- Undergraduate Lecture Courses: Behavioral Neuroscience*; Emotion and Motivation
- Undergraduate Laboratory Courses: Laboratory in Physiological Psychology; Laboratory in Neuroanatomical Methods
- Workshop on Grant writing*; independent study/honors thesis supervision; modules in ethics courses

*) Courses taught in the past ten years.

At Smith College

- Undergraduate Seminar: Psychobiology

At UC Irvine

- Undergraduate lecture courses: Physiological Basis of Behavior; Animal Behavior.

At Free U, Amsterdam

- Laboratory Courses: Practicum Histology; Practicum Chemical Physiology

Ph.D. dissertations directed

- Bradley J. Crenshaw, Dec 1992, *Neuropsychologist*, Adjunct Assistant Professor, University of Massachusetts.
- Maryam Bamshad, Mar 1993, *Assistant Professor*, Lehman University (after a postdoc at Georgia State University)
- Hussien A. Al-Shamma, Apr 1993, *Senior Director of Pharmacology*, Arena Pharmaceuticals, San Diego, California Research Scientist, (after a postdoc at UCLA, VP of Research, Maxia Pharmaceuticals, San Diego, CA)
- Thomas P. Goodness, Sep 1994, *Assistant Director*, Intellectual Property Development & Technology Transfer Office, University of Kentucky, (after postdoc and Law School at University of Kentucky)
- Catherine J. Auger, Mar 1999, *Assistant Professor*, University of Wisconsin (after a postdoc at Johns Hopkins University)
- Constanza Villalba, Oct 1999, *Medical Writer and Editor*, Health Dialog, Inc. Boston, MA
- Patricia A. Boyle, Apr 2000, *Assistant Professor*, Rush University Medical Center in Chicago (after postdoc at Brown University and assistant professorship at Boston University)
- Tina M. Han, Oct 2001, *Molecular Applications Scientist* at Ibis Biosciences/Abbott Molecular (after postdoc at University of California, Berkeley)
- Benjamin D. Rood, Dec 2009, *Postdoctoral Researcher*, University of Massachusetts, Amherst
- Elaine K. Murray, Mar 2010, *Postdoctoral Researcher*, University of Massachusetts, Amherst

Postdocs advised

- Zuoxin Wang, Jun 1991-Nov 1993, Professor, Florida State University.
- Christine Wagner, Jun 1996-Sep 1997, Associate Professor, University of Albany (formerly SUNY Albany).
- Joseph Lonstein, Jun 1997-2000, Associate Professor, Michigan State University (Winner Frank A. Beach Award)
- Unja Hayes, Jun 2003-2005, Assistant Professor, University of Massachusetts
- Thomas Mennella, Jan 2006-Aug 2008, Assistant Professor, Delaware State University
- Alexa F. Veenema, Jan 2009- Jul 2010, Assistant Professor, Boston College
- Matthew P. Paul, Jun 2010 – present.

ADMINISTRATION AND SERVICE

National and International Service

- **President Elect** Organization for the Study of Sex Differences, '10-present (also mentioned under Honors)
- **Chair** Theme E (Homeostatic and Neuroendocrine Systems), Program Committee, Society for Neuroscience, '08-present (also mentioned under Honors)
- Member of same SfN Theme, '07-08
- **President**, Society for Behavioral Neuroendocrinology, '03-'09 (6 year stint, 2 years each for President-Elect, President, Past President (also mentioned under Honors))

- International Advisory Committee for 8th World Congress on Neurohypophysial Hormones, '08-'09
- Ad hoc Member National Institute of Mental Health Board of Scientific Counselors (BSC) Nov 7-8, 2006
- **Chair** of Inaugural Nominations Committee of Organization for the Study of Sex Differences (OSSD), 05-'06
- Inaugural OSSD Conference Program Committee, 05-'06
- Program Committee, Sex and Gene Expression (SAGE VI) Meeting, Society for Women's Health Research, '04-present
- Conference Program Committee, Society for Behavioral Neuroendocrinology, '97-'99
- Steering Committee North East Undergraduate/Graduate Research Organization for Neuroscience (N.E.U.R.O.N.), '97-'99
- International Behavioral Neuroscience Society, Public Relations Committee, '94-'96.

Interdepartmental Administration

- **Director** of Center for Neuroendocrine Studies, '01- present
- **Director** Training Program in Neuroendocrinology, '00-present
- **Head** of Behavioral Neuroscience Division of the Department of Psychology, '98-'04 (formerly called Biopsychology Division)
- Executive Committee of Department of Psychology, '98-'04
- Steering Committee of Graduate Program in Neuroscience and Behavior, '98-00 and 02-'06
- Steering Committee of Graduate Program in Molecular and Cellular Biology, '92-95
- Steering Committee UMass Genomics Facility, '03-'06.

Departmental Service

- **Chair** of faculty Search Committees '04-'05, '02-03
- Personnel Committee, '07-'09 '98-'99, '95-'97, '92-'94
- Undergraduate Advising Staff, '91-'93
- Graduate Admissions Committee for Division 1, '90-'93
- Graduate Affairs, '89-'90
- Research Trust Fund Committee, '88-'89 and '90-91.

Interdepartmental Service

- Neuroscience and Behavior Graduate Program Admissions Committee, '07-'08
- IACUC committee '04-'06
- Research Council SBS '04-'05;
- NSB Curriculum Committee, '98-99
- **Chair** NSB Colloquium Committee, '87-'90, '98-'99
- **Chair** NSB Graduate Student Admissions Committee, '91-'94
- Senate Committee on Teaching Evaluation and Improvement, '88-'91
- NSB Curriculum Committee, '88.

Meetings organized

- 7th Conference of Hormones, Brain, and Behavior, Torino, Italy, Feb 13, 2009.
- 1st, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th and 11th Annual Symposium of the Center for Neuroendocrine Studies, Amherst, MA, Oct 9, 1998, Oct 6, 2000, Oct 5, 2001, Oct 4, 2002, Oct 3, 2003, Oct 8, 2004, Oct 7, 2005, Oct 6, 2006, Oct 5, 2007, Oct 2008, and Oct 2010
- Symposium on Neural Control of Social Behavior. Annual Conference of the Society for Behavioral Neuroendocrinology, Groningen, The Netherlands, July 9, 2008.

- Presidential Symposium on “Sex Differences in the Brain; When Different becomes the Same”, Annual Conference of the Society for Behavioral Neuroendocrinology, Pittsburgh, PA, June 18, 2006.
- Symposium on ‘Neural Control of Social Behaviours,’ at the XIXth International Congress of Zoology, August 23, Beijing
- 6th Annual Meeting of the Society for Behavioral Neuroendocrinology, Amherst, MA, June 26-29, 2002
- Session on ‘Four Pillars of Sexual Differentiation, Breckenridge, March 27, 2002.
- Symposium on Cellular and Molecular Mechanisms of Sexual Differentiation of the Brain. Annual Conference of the Society for Behavioral Neuroendocrinology, Tempe, AZ, June 29, 2001.
- 13th International Summer School of Brain Research on Sex Differences in the Brain. Relation between Structure and Function. Amsterdam, NL, Aug 22-26, 1983.

Grants reviewed

- Training Grant (T32) review panel, NIMH ZMH 1 ERB-S (01), National Institutes of Mental Health, 10/20/2010
- Training Grant (T32) review panel, NIMH ZMH 1 ERB C-01, National Institutes of Health, 11/16/2009 and 12/11/2009
- Review panel, Modulation Panel, Neural Systems Cluster, *National Science Foundation*, 10/5-7/2009
- Distinguished Editorial Panel, ZRG1 ETTN-A (58), *National Institutes of Health*, 07/20/09 – 07/21/09
- RO1 Grant Review, Special Emphasis Panel, ZRG1 IFCN-E (04) M, *National Institutes of Health*, 07/16/09 – 07/17/09
- Special Emphasis Panel ZRG1 F02A, F31 and F32 Grant Review, *National Institutes of Health* 5/02, 11/02, 3/03, 6/03, 10/03, 3/04, 6/04, 11/05, 6/05, 07/06, 11/06, 10/07, and 3/08
- Neurogenetics/Genomics Scientific Review Group, *National Institutes of Health*, July 11, 2007
- Review of Specialized Centers of Interdisciplinary Research (SCOR) On Sex and Gender Factors Affecting Women's Health, *National Institutes of Health*, March 22-23, 2007
- Review panel, 10745BNS05, *National Science Foundation*, 10/10-12/2005
- RO1 Grant Review, Special Emphasis Panel, NIMH, ZRG1 IFCN-D 03, 08/03/06
- RO1 Grant Review, Special Emphasis Panel, NIMH, ZRG1 IFCN-D 03, 10/07/05
- RO1 Grant Review, ZRG1 IFCN-D 02, *National Institutes of Health*, 03/15/2005
- RO1 Grant Review, ZRG1 IFCN-D 02, and Panel Chair, *National Institutes of Health*, 11/16/2004
- RO1, Special Emphasis Panel, NMB (S), *National Institutes of Health*, 10/18/2004-10/19/2004.
- RO1 Grant Review, ZRG1 IFCNA NIH, *National Institutes of Health*, 06/11/2004
- PO1 Grant Review, ZHD1 DSR-A CS 1, NICHD, *National Institutes of Health*, 06/30/2004
- Review panel, 10745BNS04, *National Science Foundation*, 04/21-23/2004
- MDCN-6 panel, RO1 Grant Review, *National Institutes of Health*, 06/19/2003
- Special Emphasis Panel, RO1 Grant Review, *National Institutes of Health* March 7, 2002.
- Special Emphasis Panel, F31 and F32 Grant Review, *National Institutes of Health* March 5, 2002.
- Special Emphasis Panel, T32 Grant Review, *National Institutes of Health* Nov 20-21, 2000.
- IFCN1 Study Section, *National Institute of Health*, Feb 9-10, 2000.
- Special Emphasis Panel, Program Project Grant Site Visit, *National Institutes of Health* July 26-27, 1999.
- Special Emphasis Panel, T32 Grant Review, *National Institutes of Health* Dec 2, 1998.
- Special Emphasis Panel, *NIH/NINDS Site Visit*, Jun 19, 1997.
- Neuroscience and Behavior Study Section, *National Institutes of Health*, Jun 13-14, 1996.
- Mentored Awardees Meeting, *National Institutes of Health*, Jun 23, 1994.
- Advisory Panel, Brain and Behavioral Sciences, *National Science Foundation*, May 1990.
- External Grant Review for the *Medical Research Council of Canada*.
- External Grant Review for the *National Science Foundation*.

Papers/Books/Conference Proposals Reviewed

- *Referee for*
Annual Review of Psychology, Behavioral Neuroscience, Biological Psychiatry, Brain Research, Brain Research Bulletin, Comparative Biochemistry and Physiology, Experimental Brain Research, Endocrinology, Hormones and Behavior, Journal of Chemical Neuroanatomy, Journal of Comparative Neurology, Journal of Neurobiology, Journal of Neuroendocrinology, Journal of Neuroscience, Molecular and Cellular Endocrinology, Nature, Nature Neuroscience Reviews, Neuroendocrinology, Neuropsychopharmacology, Peptides, Physiology and Behavior, Proceedings of the National Academy of Sciences, U.S.A.
- *Book proposal reviews for*
Elsevier Publishers, Chapman & Hall Publishers, West Educational Publishing, Harper Collins Publishers, Allyn & Bacon Publishers, Appleton & Lange.
- *Conference proposals reviewed for*
N.Y. Academy of Sciences, National Science Foundation