

January 2009

CURRICULUM VITAE

CHARLES WILLIAM WILKINSON

EDUCATION:

University of Michigan
B.S. - Zoology, Psychology 1969
University of California, Santa Barbara
Ph.D. - Psychology (Physiological) 1977

POSTGRADUATE TRAINING:

Postdoctoral Fellow 1977-1980
Department of Physiology
University of California, San Francisco

Postdoctoral Fellow 1981
Division of Endocrinology
Department of Medicine
Mount Sinai School of Medicine of the City University of New York

UNIVERSITY POSITIONS:

Lecturer 1980
Division of Natural Sciences
University of California, Santa Cruz

Instructor 1982
Department of Pharmacology
Mount Sinai School of Medicine of the City University of New York

Research Assistant Professor 1984-1991
Research Associate Professor 1991-
Department of Psychiatry and Behavioral Sciences
University of Washington

VA POSITIONS:

Research Physiologist 1982-1984
Geriatric Research, Education and Clinical Center
VA Medical Center
Seattle, Washington

VA POSITIONS Cont'd:

Research Physiologist 1984-2002
Geriatric Research, Education and Clinical Center
VA Puget Sound Health Care System, American Lake Division
Tacoma, Washington

Research Physiologist 2002-
Geriatric Research, Education and Clinical Center
VA Puget Sound Health Care System, Seattle Division
Seattle, Washington

HONORS:

National Merit Scholarship Finalist 1962
University of Michigan Regents Alumni Scholarship 1962-1963
Midland-Ross Corporation Scholarship 1962-1963
University of Michigan Unified Science Honors Program 1962-1964
University of Michigan Senior Honors in Psychology 1968
Veterans Administration Outstanding Performance Award 1986,
1990, 1992, 1999

EDITORIAL BOARDS:

American Journal of Physiology: Regulatory, Integrative and
Comparative Physiology 1992-1995

GRANT REVIEW BOARDS:

Department of Veterans Affairs Mental Health and Behavioral
Sciences Merit Review Subcommittee 2001-2003

Chair, Department of Veterans Affairs Neurobiology A Merit Review
Subcommittee 2003-2004

UNIVERSITY COMMITTEES:

Faculty Council on University Libraries 2002-
University of Washington

Chair, Faculty Council on University Libraries 2006-
University of Washington

Faculty Senate Executive Committee 2006-
University of Washington

Faculty Senate
University of Washington 2006-

Chair, Scholarly Communication Committee 2008-
University of Washington Faculty Senate

**VA ADMINISTRATIVE
POSITIONS:**

Acting Associate Director
Seattle/American Lake Geriatric Research, Education and Clinical
Center 1986

Acting Deputy Associate Director
Seattle/American Lake Geriatric Research, Education and Clinical
Center 1992

VA COMMITTEES:

Research and Development Committee 1985-1988
Subcommittee on Equipment 1985-1988
Animal Studies Committee 1985-1988, 1989-1995
Chairman, Animal Studies Committee 1987-1988, 1991-1992
Radiation Safety Committee 1990-1995
American Lake VA Medical Center

Animal Studies Committee 1996-1998
Research and Development Bridging Funds Subcommittee 2001-
2004
VA Puget Sound Health Care System

**PROFESSIONAL
ORGANIZATIONS:**

American Association for the Advancement of Science
New York Academy of Sciences
International Society of Neuroendocrinology
The Endocrine Society
American Physiological Society
Society for Neuroscience
International Brain Research Organization
American Institute of Biological Sciences
American Neuroendocrine Society

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Refereed Papers:

1. Dallman MF, Engeland WC, Rose JC, Wilkinson CW, Shinsako J, Siedenburg F: Nycthemeral rhythm in adrenal responsiveness to ACTH. *Am J Physiol* 235:R210-R218, 1978.
2. Wilkinson CW, Shinsako J, Dallman MF: Daily rhythms in adrenal responsiveness to adrenocorticotropin are determined primarily by the time of feeding in the rat. *Endocrinology* 104:350-359, 1979.
3. Carlisle HJ, Wilkinson CW, Laudenslager ML, Keith LD: Diurnal variation of heat intake in ovariectomized, steroid-treated rats. *Horm Behav* 12:232-242:1979.
4. Wilkinson CW, Carlisle HJ, Reynolds RW: Estrogenic effects on behavioral thermoregulation and body temperature of rats. *Physiol Behav* 24:337-340, 1980.
5. Engeland WC, Siedenburg F, Wilkinson CW, Shinsako J, Dallman MR: Stimulus-induced corticotropin-releasing factor content and adrenocorticotropin release are augmented after unilateral adrenalectomy, independently of circulating corticosteroid levels. *Endocrinology* 106:1410-1415, 1980.
6. Laudenslager ML, Wilkinson CW, Carlisle HJ, Hammel HT: Energy balance in ovariectomized rats with and without estrogen replacement. *Am J Physiol* 238:R400-R405, 1980.
7. Holzwarth MA, Wilkinson CW, Dallman MF: Compensatory adrenal growth in immature and mature male rats. *Neuroendocrinology* 31:34-38, 1980.
8. Wilkinson CW, Engeland WC, Shinsako J, Dallman MF: Nonsteroidal adrenal feedback demarcates two types of pathways to CRF-ACTH release. *Am J Physiol* 240:E136-E145, 1981.
9. Wilkinson CW, Shinsako J, Dallman MF: Return of pituitary-adrenal function after adrenal enucleation or transplantation: diurnal rhythms and responses to ether. *Endocrinology* 109:162-169, 1981.
10. Van de Kar LD, Wilkinson CW, Ganong WF: Pharmacological evidence for a role of brain serotonin in the maintenance of plasma renin activity in unanesthetized rats. *J Pharmacol Exp Ther* 219:85-90, 1981.
11. Van de Kar LD, Wilkinson CW, Skrobik Y, Brownfield MS, Ganong WF: Evidence that serotonergic neurons in the dorsal raphe nucleus exert a stimulatory effect on the secretion of renin but not of corticosterone. *Brain Res* 235:233-243, 1982.

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12. Wilkinson CW, Shinsako J, Dallman MF: Rapid decreases in adrenal and plasma corticosterone concentrations after drinking are not mediated by changes in plasma adrenocorticotropin concentration. *Endocrinology* 110:1599-1606, 1982.
13. Maayani S, Wilkinson CW, Stollak JS: 5-Hydroxytryptamine receptor in rabbit aorta: characterization by butyrophenone analogs. *J Pharmacol Exp Ther* 229:346-350, 1984.
14. Wilkinson CW, Dorsa DM: The effects of aging on molecular forms of beta- and gamma-endorphins in rat hypothalamus. *Neuroendocrinology* 43:124-131, 1986.
15. Peskind ER, Raskind MA, Wilkinson CW, Flatness DE, Halter JB: Peripheral sympathectomy and adrenal medullectomy do not alter cerebrospinal fluid norepinephrine. *Brain Res* 367:258-264, 1986.
16. Wilkinson CW, Crabbe JC, Keith LD, Kendall JW, Dorsa DM: Influence of ethanol dependence on regional brain content of β -endorphin in the mouse. *Brain Res* 378:107-114, 1986.
17. Murburg MM, Paly D, Wilkinson CW, Veith RC, Malas KL, Dorsa DM: Haloperidol increases plasma beta endorphin-like immunoreactivity and cortisol in normal human males. *Life Sci* 39:373-381, 1986.
18. Villacres EC, Hollifield M, Katon WJ, Wilkinson CW, Veith RC: Sympathetic nervous system activity in panic disorder. *Psychiatry Res* 21:313-321, 1987.
19. Raskind MA, Peskind ER, Veith RC, Wilkinson CW, Federighi D, Dorsa DM: Differential effects of aging on neuroendocrine responses to physostigmine in normal men. *J Clin Endocrinol Metab* 70:1420-1425, 1990.
20. Green PK, Wilkinson CW, Woods SC: Intraventricular corticosterone increases the rate of body weight gain in underweight adrenalectomized rats. *Endocrinology* 130:269-275, 1992.
21. Radant A, Peskind ER, Wilkinson CW, Veith RC, Dorsa DM, Leake RD, Ervin MG, Raskind MA: Neurohypophyseal and pituitary-adrenocortical responses to the α_1 agonist methoxamine in humans. *Neuroendocrinology* 55:361-366, 1992.
22. Gruenewald DA, Hess DL, Wilkinson CW, Matsumoto AM: Excessive testicular progesterone secretion in aged male Fischer 344 rats: a potential cause of age-related gonadotropin suppression and confounding variable in aging studies. *J Gerontol* 47:B164-B170, 1992.
23. Peskind ER, Radant A, Dobie DJ, Hughes J, Wilkinson CW, Sikkema C, Veith RC, Dorsa DM, Raskind MA: Hypertonic saline infusion increases plasma norepinephrine concentrations in normal men. *Psychoneuroendocrinology* 18:103-113, 1993.

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24. Murburg MM, Wilkinson CW, Raskind MA, Veith RC, Dorsa DM: Evidence for two differentially regulated populations of peripheral β -endorphin-releasing cells in humans. *J Clin Endocrinol Metab* 77:1033-1040, 1993.
25. McCann BS, Carter J, Vaughan M, Raskind M, Wilkinson CW, Veith RC: Cardiovascular and neuroendocrine responses to extended laboratory challenge. *Psychosom Med* 55:497-504, 1993.
26. Raskind MA, Peskind ER, Wilkinson CW: Hypothalamic-pituitary-adrenal axis regulation and human aging. *Ann NY Acad Sci* 746:327-335, 1994.
27. Raskind MA, Peskind ER, Pascualy M, Edland SD, Dobie DJ, Murray S, Sikkema C, Wilkinson CW: The effects of normal aging on cortisol and adrenocorticotropin responses to hypertonic saline infusion. *Psychoneuroendocrinology* 20:637-644, 1995.
28. Peskind ER, Raskind MA, Wingerson D, Pascualy M, Thal LJ, Dobie DJ, Veith RC, Dorsa DM, Murray S, Sikkema C, Galt SA, Wilkinson CW: Enhanced hypothalamic pituitary adrenocortical axis responses to physostigmine in normal aging. *J Gerontol A Biol Sci Med Sci* 50:M114-M120, 1995.
29. Watters JJ, Swank MW, Wilkinson CW, Dorsa DM: Evidence for glucocorticoid regulation of the rat vasopressin V1a receptor gene. *Peptides* 17:67-73, 1996.
30. Park CR, Benthem L, Seeley RJ, Friedman MI, Wilkinson CW, Woods SC: A comparison of the effects of food deprivation and 2,5-anhydro-D-mannitol on metabolism and ingestion. *Am J Physiol* 270:R1250-R1256, 1996.
31. Watters JJ, Wilkinson CW, Dorsa DM: Glucocorticoid regulation of vasopressin V1a receptors in rat forebrain. *Brain Res Mol Brain Res* 38:276-284, 1996.
32. Peskind ER, Raskind MA, Wingerson D, Pascualy M, Thal LJ, Dobie DJ, Wilkinson CW: Hypothalamic pituitary adrenocortical axis responses to physostigmine: effects of Alzheimer's disease and gender. *Biol Psychiatry* 40:61-68, 1996.
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34. Wilkinson CW, Peskind ER, Raskind MA: Decreased hypothalamic-pituitary-adrenal axis sensitivity to cortisol feedback inhibition in human aging. *Neuroendocrinology* 65:79-90, 1997.
35. Jensen CF, Keller TW, Peskind ER, McFall ME, Veith RC, Martin D, Wilkinson CW, Raskind MA: Behavioral and neuroendocrine responses to sodium lactate infusion in subjects with posttraumatic stress disorder. *Am J Psychiatry* 154:266-268, 1997.

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39. Chavez M, Seeley RJ, Green PK, Wilkinson CW, Schwartz MW, Woods SC: Adrenalectomy increases sensitivity to central insulin. *Physiol Behav* 62:631-634, 1997.
40. van Dijk G, Donahey JCK, Thiele TE, Scheruink AJW, Steffens AB, Wilkinson CW, Tenenbaum R, Campfield LA, Burn P, Seeley RJ, Woods SC: Central leptin stimulates corticosterone secretion at the onset of the dark phase. *Diabetes* 46:1911-1914, 1997.
41. Rasmussen DD, Bryant CA, Boldt BM, Colasurdo EA, Levin N, Wilkinson CW: Acute alcohol effects on opiomelanocortinergic regulation. *Alcohol Clin Exp Res* 22:789-801, 1998.
42. McMinn JE, Seeley RJ, Wilkinson CW, Havel PJ, Woods SC, Schwartz MW: NPY-induced overfeeding suppresses hypothalamic NPY mRNA expression: potential roles of plasma insulin and leptin. *Regul Pept* 75-76:425-431, 1998.
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53. Pascualy M, Petrie EC, Brodtkin K, Peskind ER, Wilkinson CW, Raskind MA: Hypothalamic pituitary adrenocortical and sympathetic nervous system responses to the cold pressor test in Alzheimer's disease. *Biol Psychiatry* 48:247-254, 2000.
54. McMinn JE, Wilkinson CW, Havel PJ, Woods SC, Schwartz MW: Effect of intracerebroventricular alpha-MSH on food intake, adiposity, c-Fos induction, and neuropeptide expression. *Am J Physiol Regul Integr Comp Physiol* 279:R695-R703, 2000.
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56. Rasmussen DD, Boldt BM, Bryant CA, Mitton DR, Larsen SA, Wilkinson CW: Chronic daily ethanol and withdrawal: 1. long-term changes in the hypothalamo-pituitary-adrenal axis. *Alcohol Clin Exp Res* 24:1836-1849, 2000.
57. Wilkinson CW, Petrie EC, Murray SR, Colasurdo EA, Raskind MA, Peskind ER: Human glucocorticoid feedback inhibition is reduced in older individuals: evening study. *J Clin Endocrinol Metab* 86:545-550, 2001.

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58. Seeman TE, Singer B, Wilkinson CW, McEwen B: Gender differences in age-related changes in HPA axis reactivity. *Psychoneuroendocrinology* 26:225-240, 2001.
59. Prinz P, Bailey S, Moe K, Wilkinson C, Scanlan J: Urinary free cortisol and sleep under baseline and stressed conditions in healthy senior women: effects of estrogen replacement therapy. *J Sleep Res* 10:19-26, 2001.
60. Peskind ER, Wilkinson CW, Petrie EC, Schellenberg GD, Raskind MA: Increased CSF cortisol in AD is a function of APOE genotype. *Neurology* 56:1094-1098, 2001.
61. Clark AF, Steely HT, Dickerson JE Jr, English-Wright S, Stropki K, McCartney MD, Jacobson N, Shepard AR, Clark JI, Matsushima H, Peskind ER, Leverenz JB, Wilkinson CW, Swiderski RE, Fingert JH, Sheffield VC, Stone EM: Glucocorticoid induction of the glaucoma gene MYOC in human and monkey trabecular meshwork cells and tissues. *Invest Ophthalmol Vis Sci* 42:1769-1780, 2001.
62. Kanter ED, Wilkinson CW, Radant AD, Petrie EC, Dobie DJ, McFall ME, Peskind ER, Raskind MA: Glucocorticoid feedback sensitivity and adrenocortical responsiveness in posttraumatic stress disorder. *Biol Psychiatry* 50:238-245, 2001.
63. Evans SB, Wilkinson CW, Bentson K, Gronbeck P, Zavosh A, Figlewicz DP: PVN activation is suppressed by repeated hypoglycemia but not antecedent corticosterone in the rat. *Am J Physiol Regul Integr Comp Physiol* 281:R1426-R1436, 2001.
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65. Rasmussen DD, Boldt BM, Wilkinson CW, Mitton DR: Chronic daily ethanol and withdrawal: 3. Forebrain pro-opiomelanocortin gene expression and implications for dependence, relapse, and depression effect. *Alcohol Clin Exp Res* 26:535-546, 2002.
66. Ashman SB, Dawson G, Panagiotides H, Yamade E, Wilkinson CW: Stress hormone levels of children of depressed mothers. *Dev Psychopathol* 14:333-349, 2002.
67. Lupien SJ, Wilkinson CW, Briere S, Ng Ying Kin NM, Meaney MJ, Nair NP: Acute modulation of aged human memory by pharmacological manipulation of glucocorticoids. *J Clin Endocrinol Metab* 87:3798-3807, 2002.
68. Figlewicz DP, Van Dijk G, Wilkinson CW, Gronbeck P, Higgins M, Zavosh A: Effects of repetitive hypoglycemia on neuroendocrine response and brain tyrosine hydroxylase activity in the rat. *Stress* 5:217-226, 2002.

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69. Evans SB, Wilkinson CW, Gronbeck P, Bennett JL, Taborsky GJ Jr, Figlewicz DP: Inactivation of the PVN during hypoglycemia partially simulates hypoglycemia-associated autonomic failure. *Am J Physiol Regul Integr Comp Physiol* 284:R57-R65, 2003.
70. Evans SB, Wilkinson CW, Gronbeck P, Bennett JL, Zavosh A, Taborsky GJ Jr, Figlewicz DP: Inactivation of the DMH selectively inhibits the ACTH and corticosterone responses to hypoglycemia. *Am J Physiol Regul Integr Comp Physiol* 286:R123-R128, 2004
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73. McMillan PJ, Wilkinson CW, Greenup L, Raskind MA, Peskind ER, Leverenz JB: Chronic cortisol exposure promotes the development of a GABAergic phenotype in the primate hippocampus. *J Neurochem* 91:843-851, 2004.
74. Kulstad JJ, McMillan PJ, Leverenz JB, Cook DG, Green PS, Peskind ER, Wilkinson CW, Farris W, Mehta PD, Craft S: Effects of chronic glucocorticoid administration on insulin-degrading enzyme and amyloid-beta peptide in the aged macaque. *J Neuropathol Exp Neurol* 64:139-146, 2005.
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76. van Dijk G, de Vries K, Nyakas C, Buwalda B, Adage T, Kuipers F, Kas M, Adan RA, Wilkinson CW, Thiele TE, Scheurink AJ: Reduced anorexigenic efficacy of leptin, but not of the melanocortin receptor agonist melanotan-II, predicts diet-induced obesity in rats. *Endocrinology* 146:5247-5256, 2005.
77. Wilkinson CW: Roles of acetylation and other post-translational modifications in melanocortin function and interactions with endorphins. *Peptides* 27:453-471, 2006.
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79. Sanders NM, Figlewicz DP, Taborsky GJ Jr, Wilkinson CW, Daumen W, Levin BE: Feeding and neuroendocrine responses after recurrent insulin-induced hypoglycemia. *Physiol Behav* 87:700-706, 2006.

Refereed Papers Cont'd:

80. Wilkinson CW, Raff H: Comparative evaluation of a new immunoradiometric assay for corticotropin. *Clin Chem Lab Med* 44:669-671, 2006.
81. Rasmussen DD, Wilkinson CW, Raskind MA: Chronic daily ethanol and withdrawal: 6. Effects on rat sympathoadrenal activity during "abstinence". *Alcohol* 38:173-177, 2006.
82. Sanders NM, Taborsky GJ Jr, Wilkinson CW, Daumen W, Figlewicz DP: Antecedent hindbrain glucoprivation does not impair the counterregulatory response to hypoglycemia. *Diabetes* 56:217-223, 2007.
83. Tyrka AR, Wier LM, Anderson GM, Wilkinson CW, Price LH, Carpenter LL: Temperament and response to the Trier Social Stress Test. *Acta Psychiatr Scand* 115:395-402, 2007.
84. Carpenter LL, Carvalho JP, Tyrka AR, Wier LM, Mello AF, Mello MF, Anderson GM, Wilkinson CW, Price LH: Decreased adrenocorticotropic hormone and cortisol responses to stress in healthy adults reporting significant childhood maltreatment. *Biol Psychiatry* 62:1080-1087, 2007.
85. Moorman AJ, Mozaffarian D, Wilkinson CW, Lawler RL, McDonald GB, Crane BA, Spertus JA, Russo JE, Stempien-Otero AS, Sullivan MD, Levy WC: In patients with heart failure elevated soluble TNF-receptor 1 is associated with higher risk of depression. *J Card Fail* 13:738-743, 2007.
86. Reger MA, Watson GS, Green PS, Wilkinson CW, Baker LD, Cholerton B, Fishel MA, Plymate SR, Breitner JC, DeGroot W, Mehta P, Craft S: Intranasal insulin improves cognition and modulates beta-amyloid in early AD. *Neurology* 70:440-448, 2008.
87. Al-Noori S, Sanders NM, Taborsky GJ Jr, Wilkinson CW, Figlewicz DP: Acute THPVP inactivation decreases the glucagon and sympathoadrenal responses to recurrent hypoglycemia. *Brain Res* 1194:65-72, 2008.
88. Tyrka AR, Wier LM, Price LH, Rikhye K, Ross NS, Anderson GM, Wilkinson CW, Carpenter LL: Cortisol and ACTH responses to the Dex/CRH test: influence of temperament. *Horm Behav* 53:518-25, 2008.
89. Sanders NM, Wilkinson CW, Taborsky GJ Jr, Al-Noori S, Daumen W, Zavosh A, Figlewicz DP: The selective serotonin reuptake inhibitor sertraline enhances counterregulatory responses to hypoglycemia. *Am J Physiol Endocrinol Metab* 294:E853-E860, 2008.
90. Tyrka AR, Wier L, Price LH, Ross N, Anderson GM, Wilkinson CW, Carpenter LL: Childhood parental loss and adult hypothalamic-pituitary-adrenal function. *Biol Psychiatry* 63:1147-1154, 2008.

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91. Peretz A, Sullivan JH, Leotta DF, Trenga CA, Sands FN, Allen J, Carlsten C, Wilkinson CW, Gill EA, Kaufman JD: Diesel exhaust inhalation elicits acute vasoconstriction in vivo. *Environ Health Perspect* 116:937-942, 2008.
92. Al-Noori S, Sanders NM, Taborsky GJ Jr, Wilkinson CW, Zavosh A, West C, Sanders CM, Figlewicz DP: Recurrent hypoglycemia alters hypothalamic expression of the regulatory proteins FosB and synaptophysin. *Am J Physiol Regul Integr Comp Physiol* 295: R1446-R1454, 2008.

Invited Editorials:

1. Wilkinson CW: Circadian clocks: showtime for the adrenal cortex. *Endocrinology* 149:1451-1453, 2008.

Book Chapters:

1. Dallman MF, Wilkinson CW: Feedback and facilitation in the adrenocortical system and the endocrine responses to repeated stimuli. In: *Environmental Endocrinology*. Assenmacher I, Farner DS (eds), Springer-Verlag, Berlin, pp. 252-259, 1978.
2. Dorsa DM, Wilkinson CW: Regulation of neuropeptides in aging. In: *Peptide Hormones: Effects and Mechanism of Action*. Negro-Vilar A, Conn PM (eds), CRC Press, Boca Raton, pp. 69-94, 1988.
3. Wilkinson CW: The adrenal cortex. In: *Textbook of Physiology, Vol. 2, 21st Edition*, Patton HD, Fuchs AF, Hille B, Scher AM, Steiner RA (eds), W.B. Saunders, Philadelphia, pp. 1501-1521, 1989.
4. Wilkinson CW: Endocrine rhythms and the pineal gland. In: *Textbook of Physiology, Vol. 2, 21st Edition*, Patton HD, Fuchs AF, Hille B, Scher AM, Steiner RA (eds), W.B. Saunders, Philadelphia, pp. 1239-1261, 1989.
5. Raskind MA, Wilkinson CW, Peskind ER: Aging and Alzheimer's disease. In: *Hormones, Brain and Behavior, Vol. 5*, Pfaff DW, Arnold AP, Etgen AM, Fahrbach SE, Rubin RT (eds), Academic Press, Amsterdam, pp. 637-664, 2002.

Abstracts:

1. Wilkinson CW, Carlisle HJ, Reynolds RW: The effects of estradiol benzoate and gonadectomy on behavioral thermoregulation of rats. *Fed Proc* 35:481, 1976.

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2. Wilkinson CW: Endocrine influences on thermoregulatory behavior in rats. *Diss Abstr Int* 38:2917B-2918B, 1977.
3. Wilkinson CW, Shinsako J, Dallman MF: Insulin, corticosterone and ACTH rhythms in rats fed 2 hr/day. *Physiologist* 20:102, 1977.
4. Dallman MF, Wilkinson CW, Engeland WC, Shinsako J: Adrenal size increases in atrophied glands after unilateral adrenalectomy. *Fed Proc* 37:811, 1978.
5. Wilkinson CW, Shinsako J, Dallman MF: Rapid reduction in adrenocortical responsiveness to ACTH following restricted access to water. *Physiologist* 21:128, 1978.
6. Dallman MF, Wilkinson CW: Interactions among corticosterone (B), adrenal number and stimuli to ACTH secretion: evidence for steroid-sensitive and steroid-insensitive afferent pathways. *Fed Proc* 38:1053, 1979.
7. Laudenslager ML, Wilkinson CW, Carlisle HJ, Hammel HT: Increased heat production and dry heat loss in estradiol-treated ovariectomized rats. *Fed Proc* 38:1053, 1979.
8. Wilkinson CW, Shinsako J: Rhythms in adrenocortical responsiveness to ACTH are not mediated by direct neural connections to the adrenal. *Abstr 61st Ann Mtg Endocrine Soc*, p. 229, 1979.
9. Wilkinson CW, Wing N, Shinsako J, Dallman MF: Effects of vagotomy on rat adrenal responsiveness to ACTH. *Fed Proc* 39:1073, 1980.
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