

Jill Ellen Schneider

Curriculum Vita

BIOGRAPHICAL INFORMATION

Contact Information

Jill Ellen Schneider, Ph.D., Professor
Department of Biological Sciences
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Bethlehem, PA 18015
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Degrees

Florida State University	Psychology	B.S. 1977
Wesleyan University	Biology	Ph.D. 1982

Other Significant Educational Experiences

Molecular Biology Workshop, Smith College/New England Biolabs, 1990
Postdoctoral Study, Department of Psychology, University of Massachusetts, 1984-1989
Neural Systems and Behavior, Woods Hole Marine Biological Lab, summer, 1979

Employment History

At Lehigh University:

- Professor, Department of Biological Sciences, 2004-present
- Associate Professor, Department of Biological Sciences, 1994-2004 (tenure 2/94)
- Distinguished Associate Professor endowed by Lehigh's Class of 1961, Department of Biological Sciences, 1995-1998
- Assistant Professor, Department of Psychology, 1992-1994

At the University of Massachusetts:

Research Assistant Professor, Neuroscience and Behavior Program, 1989-1991
Postdoctoral Research Associate, Department of Psychology, 1984-1989

Other:

Consultant, NICHD Reproductive Biology Training Grant, Center for Reproductive Sciences Program, Northwestern University, Evanston, Illinois, 2005-2006
Instructor, Department of Biology, Saint Joseph College, Hartford, CT, 1984
Research/Teaching Assistant, Department of Biology, Wesleyan University, 1978-1982
Research/Teaching Assistant, Department of Psychology, Florida State University, 1976-1977

PUBLICATIONS

Books Edited

Wallen, K. and J. E. Schneider, eds., *Reproduction in Context*, M.I.T. Press, Cambridge, Massachusetts, 2000.

Book Chapters Authored

Schneider, J. E. and A. G. Watts, Energy balance, ingestive behavior and reproductive success, Chapter 7 in: *Hormones, Brain and Behavior* (Pfaff, D., Etgen, A., Fahrbach, S. E., and Rubin, R. T., eds.) Elsevier, San Diego, California, pp. 435-523, 2002.

Schneider, J. E. Introduction to the study of reproduction in context. Chapter 1 in: *Reproduction in Context* by Wallen, K. and Schneider, J.E., eds., M.I.T. Press, Cambridge, Massachusetts, PP. 1-11, 2000.

Schneider, J. E. and G. N. Wade. Reproductive inhibition in service of energy balance, Chapter 3 in: *Reproduction in Context* by Wallen, K. and Schneider, J.E., eds., M.I.T. Press, Cambridge, Massachusetts, PP. 35-86, 2000.

Special Issue of Journals Edited

Schneider, J. E. (Guest Editor) Special Issue of *Hormones and Behavior* on Leptin and Related Peptides. 37, Number 4, Academic Press, San Diego, California, June, 2000.

Articles Published in Refereed Journals

Szymanski, L. A., Schneider, J. E., Friedman, M. I., Ji, H., Kurose, Y., Blache, D., Rao, A., Dunshea, F.R., Clarke, I.J. Changes in insulin, glucose and ketone bodies, but not leptin or body fat content precede restoration of luteinising hormone secretion in re-fed ewes. *Journal of Neuroendocrinology*, *accepted pending minor revision (under final review)*, 2007.

Schneider, J.E. Casper, J.F. Barisich, A., Schoengold, C., Cherry, S., Surico, J., DeBarba, A., Fabris, F. and Rabold, E. Food deprivation and leptin prioritize ingestive and sex behavior without affecting estrous cycles in Syrian hamsters. *Hormones and Behavior*, in press, 2007.

Schneider, J. E. Metabolic and hormonal control of the desire for food and sex: Implications for obesity and eating disorders, *Hormones and Behavior*, 50:562-571, 2006.

Schneider, J. E. Energy balance and reproduction. *Physiology and Behavior* 81:289-317, 2004.

Buckley, C.A. and J.E. Schneider Food hoarding, but not food intake is increased by food deprivation and decreased by leptin treatment in Syrian hamsters. *American Journal of Physiology* 285:R1021-1029, 2003.

Schneider, J. E. and C. A. Buckley, R. M. Blum, D. Zhou, L. Szymanski, D. E. Day and T. J. Bartness Metabolic signals, hormones and neuropeptides involved in control of energy balance reproductive success in hamsters. *European Journal of Neuroscience* 16:377-379, 2002.

Jennifer L. Temple, Jill E. Schneider, Deanna Scott, Alexander Koritz and Emilie F. Rissman Acute Metabolic Fuel Blockade Suppresses Mating Behavior in Female Musk Shrews. *American Journal of Physiology*, 282:R782-R790, 2001.

Drazen, D.L., Kriegsfeld, L.J., Schneider, J.E. & Nelson, R.J. Photoperiod effects on leptin and immune function. *American Journal of Physiology*, 278:R1401-R1407, 2000.

Schneider, J.E. Leptin and Related Peptides. *Hormones and Behavior*, 37:258-260, 2000.

Schneider, J.E., Zhou, D. and Blum, R.M. Leptin and metabolic control of reproduction. *Hormones and Behavior*, 37:306-326, 2000.

Schneider, J. E., R. M. Blum, and G. N. Wade, Metabolic control of food intake and estrous cycles in Syrian hamsters: I. Plasma insulin and leptin concentrations, *American Journal of Physiology*, 278:R476-R485, 2000.

Schneider, J. E. and D. Zhou. Interactive effects of intracerebral leptin treatment and peripheral metabolic inhibitors on estrous cyclicity. *American Journal of Physiology*, 277:R1020-R1024, 1999.

Schneider, J. E., M. D. Goldman, S. Tang, B. Bean, H. Ji and M. I. Friedman. Leptin indirectly affects estrous cycles by increasing metabolic fuel oxidation. *Hormones and Behavior*, 33:217-228, 1998.

Panicker, A. K., R. A. Mangels, J. B. Powers, G. N. Wade, and J.E. Schneider. Area postrema lesions block suppression of estrous behavior, but not estrous cyclicity, in food-deprived hamsters. *American Journal of Physiology*; 275:R158-R164, 1998.

Schneider, J. E. Effects of the fructose analog, 2,5-anhydro-d-mannitol, on food intake and estrous cycles Syrian hamsters. *American Journal Physiology*, 272:R935-R939, 1997.

Schneider, J. E., A. J. Hall, and G. N. Wade. Central versus peripheral metabolic control of estrous cycles in Syrian hamsters: I.Lipoprivation. *American Journal of Physiology*, 272:R400-R405, 1997.

Schneider, J.E., M. D. Goldman, N. A. Leo, and M. E. Rosen. Central versus peripheral metabolic control of estrous cycles in Syrian hamsters: II. Glucoprivation. *American Journal of Physiology*, 272:R406-R412, 1997.

Wade, G.N., J.E. Schneider, and H.-Y. Li. **(INVITED REVIEW)** Control of fertility by metabolic cues. *American Journal of Physiology*, 270:E1-E9, 1996.

Schneider, J.E., B.C. Finnerty, J.M. Swann, J.M. Gabriel. Glucoprivic treatments that induce anestrus, but do not affect food intake, increase FOS-like immunoreactivity in the area postrema and nucleus of the solitary tract in Syrian hamsters. *Brain Research*, 698:107-113, 1995.

Bhatia, A.J., J.E. Schneider, and G.N. Wade. Thermoregulatory and maternal nest building in Syrian hamsters: Interaction of ovarian steroids and energy demand. *Physiology and Behavior*, 58:141-146, 1995.

Schneider, J.E. and Y.Z. Zhu. Caudal brain stem plays a role in metabolic control of estrous cycles in Syrian hamsters. *Brain Research*, 661:70-74, 1994.

Schneider, J.E., D.G. Friedenson, A.J. Hall, and G.N. Wade. Glucoprivation induces anestrus while lipoprivation may induce hibernation in Syrian hamsters. *American Journal of Physiology*, 264:R573-R577, 1993.

Wade, G.N. and J.E. Schneider. Metabolic fuels and reproduction in female mammals. *Neuroscience and Biobehavioral Reviews*, 16:235-272, 1992.

Schneider, J.E. Metabolic Sense. *Hormones and Behavior*, 26:1-6, 1992.

Wade, G.N., J.E. Schneider, and M.E. Friedman. Insulin-induced anestrus in Syrian hamsters. *American Journal of Physiology*, 260:R148-R152, 1991.

Schneider, J.E. and G.N. Wade. Effects of ambient temperature and body fat content on maternal litter reduction in Syrian hamsters. *Physiology and Behavior* 49:135-139, 1991.

Schneider, J.E. and G.N. Wade. Effects of diet and body fat content on cold-induced anestrus in Syrian hamsters. *American Journal of Physiology*, 259:R1198-R1204, 1990.

Schneider, J.E. and G.N. Wade. Decreased availability of metabolic fuels induces anestrus in Syrian hamsters. *American Journal of Physiology*, 258:R750-R755, 1990.

Schneider, J.E. and G.N. Wade. Effects of maternal diet, body weight and body composition on infanticide in Syrian hamsters. *Physiology and Behavior*, 46:815-821, 1989.

Schneider, J.E. and G.N. Wade. Body weight and reproduction. *Science*, 246:432, 1989 (letter).

Schneider, J.E. and G.N. Wade. Availability of metabolic fuels controls estrous cyclicity of Syrian hamsters. *Science*, 244:1326-1328, 1989.

Schneider, J.E., S.J. Lazzarini, M.I. Friedman and G.N. Wade. Role of fatty acid oxidation in food intake and hunger motivation in Syrian hamsters. *Physiology and Behavior*, 43:617-623, 1988.

Lazzarini, S.J., J.E. Schneider and G.N. Wade. Inhibition of fatty acid oxidation and glucose metabolism does not affect food intake or hunger motivation in Syrian hamsters. *Physiology and Behavior*, 44:209-215, 1988.

Schneider, J.E. and G.N. Wade. Body weight, food intake and brown fat thermogenesis in pregnant Djungarian hamsters. *American Journal of Physiology*, 253:R314-R320, 1987.

Schneider, J.E., J.M. Hamilton and G.N. Wade. Genetic association between nest building and brown adipose tissue thermogenesis in female house mice. *Journal of Comparative and Physiological Psychology*, 157:87-93, 1986.

Schneider, J.E., L. Palmer and G.N. Wade. Effects of estrous cycles and ovarian steroids on body weight and energy expenditure in Syrian hamsters. *Physiology and Behavior*, 38:119-126, 1986.

Schneider, J.E. and C.B. Lynch. An investigation of a common physiological mechanism underlying maternal and progesterone-induced nesting in mice, *Mus musculus*. *Journal of Comparative and Physiological Psychology*, 98:165-176, 1984.

Schneider, J.E., C.B. Lynch and C.L. Gundaker. The influence of exogenous progesterone on selected lines of mice divergent for maternal nesting. *Behavior Genetics* 13:247-256, 1983.

Schneider, J.E., C.B. Lynch, B. Possidente, and J.P. Hegmann. Genetic association between progesterone-induced and maternal nesting in mice. *Physiology and Behavior*, 29:97-105, 1982.

Batchelder, M., C.B. Lynch and J. Schneider. The effects of age and experience on strain differences for nesting behavior in *Mus musculus*. *Behavior Genetics*, 12:149-159, 1982.

Lynch, G.R., J. Bunin and J.E. Schneider. The effect of constant light and dark on the circadian nature of daily torpor in *Peromyscus leucopus*. *Journal of Interdisciplinary Cycle Research*, 11:55-93, 1980.

Nyby, J., C.J. Wysocki, G. Whitney, G. Dizinno and J. Schneider. Female elicitation of male mouse (*Mus musculus*) ultrasonic vocalizations. I. Urinary cues. *Journal of Comparative and Physiological Psychology*, 93:957-975, 1979.

Nyby, J., C.J. Wysocki, G. Whitney, G. Dizinno, J. Schneider and A. Nunez. Elicitation of male mouse (*Mus musculus*) ultrasonic vocalizations. II. Animal stimuli. *Journal of Comparative and Physiological Psychology*, 95:623-629, 1980.

Published Abstracts of Conference Presentations

Laura Szymanski, Jill E. Schneider, Yohei Kurose, Mark I. Friedman, Hong Ji and Iain J. Clarke. Rapid restoration of luteinizing hormone pulses by refeeding undernourished ewes is preceded by alterations in plasma ketone bodies and insulin but not leptin or ghrelin. Society for Behavioral Neuroendocrinology, Lisbon, Portugal, July, 2004.

Buckley, C. A., Cundall, D., and Schneider, J.E. How Syrian hamsters fill their cheek pouches: Co-opted masticatory motor patterns and the role of the retractor muscle. Society for Comparative and Behavioral Endocrinology, 2004.

Laura A. Szymanski, J.E. Schneider, A. Rao and I.J. Clarke. RESTORATION OF LUTEINIZING HORMONE PULSES IN REFED CHRONICALLY UNDERNOURISHED EWES OCCURS WITHOUT ALTERATIONS IN PLASMA LEPTIN CONCENTRATIONS. Society for Neuroscience Annual Meeting, New Orleans, 2003.

Robert M. Blum, L.A. Szymanski, J.E. Schneider, M.I. Friedman, H. Ji and J.A. Swanson. GLUCOSE, FRUCTOSE, AND CHOW DILUTED WITH CELLULOSE DO NOT RESTORE ESTROUS CYCLES AFTER FOOD DEPRIVATION IN LEAN SYRIAN HAMSTERS Society for Neuroscience Annual Meeting, New Orleans, 2003.

Robert M. Blum, Deanna K. Scott and Jill E. Schneider FOOD DEPRIVATION-INDUCED ANESTRUS DOES NOT REQUIRE ADRENAL SECRETIONS IN SYRIAN HAMSTERS. Society for Behavioral Neuroendocrinology, Cincinnati, Ohio, 2003.

Robert M. Blum, Deanna K. Scott and Jill E. Schneider EFFECTS OF LEPTIN ON METABOLIC FUELS AND ESTROUS CYCLICITY DURING FASTING. Society for Behavioral Neuroendocrinology, Scottsdale, Arizona, June, 2001 .

Laura A. Szymanski, Dan Zhou, and Jill E. Schneider EFFECTS OF FOURTH VENTRICLE GLUCOSE UTILIZATION ON ESTROUS CYCLICITY IN SYRIAN HAMSTERS Society for Behavioral Neuroendocrinology, Scottsdale, Arizona, June, 2001.

Carolyn A. Buckley and Jill E. Schneider LEPTIN TREATMENTS THAT DECREASE FOOD INTAKE DO NOT SUPPORT A CONDITIONED TASTE AVERSION IN SYRIAN HAMSTERS Society for Behavioral Neuroendocrinology, Scottsdale, Arizona, June, 2001.

C.A. Buckley; J.E. Schneider LEPTIN PREVENTS THE EFFECTS OF FOOD DEPRIVATION ON HOARDING IN SYRIAN HAMSTERS. Society for Neuroscience Annual Meeting, San Diego, California, November 2001.

R.M. Blum; J. Swanson; J.E. Schneider DIETARY GENISTEIN DECREASES THE AGE AND WEIGHT OF PUBERTY AND FACILITATES SEX BEHAVIOR IN SYRIAN HAMSTERS Society for Neuroscience Annual Meeting, San Diego, California, November 2001.

Blum, R.M., Schneider, J.E. Fasting-induced anestrus is associated with low, while insulin-induced anestrus is associated with high plasma leptin concentrations. Society for Neurosciences Annual Meeting, New Orleans, Louisiana, November, 2000.

Schneider, J.E., Syre, P. and Alunni, C. Leptin interacts with metabolic fuel availability to control estrous cycles but not food intake in Syrian hamsters. Society for Neurosciences Annual Meeting, New Orleans, Louisiana, November, 2000.

Zhou, D. Blum, R.M., Schneider, J.E. An impaired hyperglycemic response to repeated glucoprivation is not a sufficient stimulus for anestrus. Society for Neurosciences Annual Meeting, New Orleans, Louisiana, November, 2000.

Owzar, K., Goldner, J., Blum, R. M., Little, P. Leptin concentrations increase after refeeding in adipose tissue but not in plasma. Society for Neurosciences Annual Meeting, New Orleans, Louisiana, November, 2000.

R. M. Blum, H. Ji, M. I. Friedman, P. Little, and J. E. Schneider. Estrous cyclicity can be dissociated from plasma leptin concentrations but not from circulating metabolic fuels. Society for Neurosciences Annual Meeting, Miami Beach, Florida, October, 1999.

D. Zhou and J. E. Schneider. Fourth ventricular leptin prevents fasting-induced anestrus in Syrian hamsters. Society for Neurosciences Annual Meeting, Miami Beach, Florida, October, 1999.

J. Schneider and D. Zhou. Treatment with SHU9119 increases food intake but does not induce anestrus in Syrian hamsters fed *ad libitum*. Society for Neurosciences Annual Meeting, Miami Beach, Florida, October, 1999.

J. Schneider, Primary metabolic sensory signals that control estrous cycles in Syrian hamsters. American Neuroendocrine Society, June, 1999.

D. Zhou and J. E. Schneider Leptin treatment restricted to the fourth cerebral ventricle prevents fasting-induced anestrus in Syrian hamsters. Society for Behavioral Neuroendocrinology, Charlottesville, Virginia, June, 1999.

Drazen, D., Kriegsfeld, L. J., Schneider, J.E., Nelson, R.J. Reproductive response to photoperiod affects immune function and leptin concentrations in Siberian hamsters. Society for Behavioral Neuroendocrinology, Charlottesville, Virginia, June, 1999

D. Zhou, J. E. Schneider, M.I. Friedman, H. Ji. Intracerebroventricular leptin treatment affects estrous cycles indirectly by increasing metabolic fuel oxidation. Society for Neurosciences Annual Meeting, Los Angeles, California, November, 1998.

J.E. Schneider, G.N. Wade and M.I. Friedman. Possible biological roles of leptin. Society for Behavioral Neuroendocrinology, Emory University, Atlanta, Georgia, June, 1998.

E. Keen, J. Faroun, K. Owzar, R. Blum, J. E. Schneider. Effects of leptin on neural activation in Syrian hamsters. Society for Behavioral Neuroendocrinology, Emory University, Atlanta, Georgia, June, 1998.

D. Zhou and J. E. Schneider. Whether applied to the brain or periphery, leptin acts indirectly via effects on fuel metabolism. Society for Behavioral Neuroendocrinology, Emory University, Atlanta, Georgia, June, 1998.

N. Black and J.E. Schneider. Decreased fatty acid oxidation synergizes with fasting to increase neural activation in the area postrema. Society for Behavioral Neuroendocrinology, Emory University, Atlanta, Georgia, June, 1998.

J. E. Schneider, M.D. Goldman, S. Tang, and B. Bean. Leptin metabolic fuels and reproduction in Syrian hamsters. Society for Neuroscience Annual Meeting, New Orleans, Louisiana, October, 1997.

B.C. Finnerty, D. Jacobs, M. Szajna, J.M. Swann, and J.E. Schneider. The combined use of immunocytochemistry and lesions in the study of neural pathways underlying metabolic control of reproduction. Society for Neuroscience Annual Meeting, Washington, D.C., November, page 86, 1996.

B. C. Finnerty, M. D. Goldman, N. A. Leo, N. R. Davi, E. S. Barnett, Y. Zhu and J. E. Schneider. Effects of Metabolic Fuel Utilization on Neural Activation in the Central Nervous System and its Relation to Estrous Cycles and Caloric Homeostasis. Conference on Reproductive Behavior, Boston University, Boston, Massachusetts, June, 1995.

D. A. Marder, J. T. Raia and J. E. Schneider. Effects of Food Deprivation on Aggression and Sex Behavior in Female Syrian Hamsters. Conference on Reproductive Behavior, Boston University, Boston, Massachusetts, June, 1995.

B.C. Finnerty, Y. Zhu, and J.E. Schneider. Decreased glucose, but not fatty acid availability increases FOS-like immunoreactivity in the caudal brain stem of female Syrian hamsters. Society for Neuroscience Annual Meeting, Miami, Florida, November, 1994.

B.C. Finnerty, Y. Zhu, and J.E. Schneider. The effects of different metabolic challenges on FOS-like immunoreactivity in the caudal brain stem of Syrian hamsters. Conference on Reproductive Behavior, Lehigh University, Bethlehem, Pennsylvania, June, 1994.

M. D. Goldman, M. Rosen, Y. Zhu and J. E. Schneider. Central Metabolic Cues are Sufficient and Peripheral Neural Cues are Not Necessary For the Effects of Glucose Availability on Estrous Cycles and Neural Activation in the Area Postrema of Syrian Hamsters. Conference on Reproductive Behavior, Lehigh University, Bethlehem, Pennsylvania, June, 1994.

Schneider, J.E., Y. Zhu, J.M. Swann, and J.M. Gabriel. Glucose detectors in the caudal brain stem control estrous cycles in Syrian hamsters. Society for Neuroscience, Washington, D.C., November, 1993.

Schneider, J.E. Metabolic sensory systems involved in female reproductive behavior and physiology. Conference on Reproductive Behavior, Michigan State University, East Lansing, Michigan, June, 1993.

Schneider, J.E., A.J. Hall, D.G. Friedenson, M.H. Brown and G.N. Wade. Signals generated in CNS glucose metabolism affect estrous cycles in Syrian hamsters. Society for Neurosciences, New Orleans, Louisiana, November, 1991.

Bhatia, A.J., J.E. Schneider and G.N. Wade. Effects of energy intake, demand, and partitioning on nestbuilding in Syrian hamsters. Society for Neurosciences, New Orleans, Louisiana, November, 1991

Schneider, J.E. and G.N. Wade. Insulin-induced anestrus in Syrian hamsters. Society for Neurosciences, St. Louis, Missouri, November, 1990.

Dickerman, R., J.E. Schneider, and G.N. Wade. Decreased availability of metabolic fuels or food deprivation attenuates the preovulatory LH surge in Syrian hamsters. Society for Neurosciences, St. Louis, Missouri, November, 1990.

Schneider, J.E. and G.N. Wade. Metabolic control of reproductive effort in Syrian hamsters. Twenty-second Conference on Reproductive Behavior, Emory University, Atlanta, Georgia, June, 1990.

Schneider, J.E. and G.N. Wade. Estradiol treatment reinstates sexual receptivity in hamsters made anovulatory by treatment with metabolic inhibitors. Society for the Study of Reproduction, Columbia, Missouri, August, 1989.

Schneider, J.E. and G.N. Wade. Metabolic control of sex and maternal behavior. Federation of American Societies for Experimental Biology Summer Research Conference: Regulation of Energy Balance and Nutrient Partitioning, Saxtons River, Vermont, July, 1989.

Schneider, J.E. and G.N. Wade. Effects of body weight and food supply on maternal cannibalism in Syrian hamsters. Twenty-first Conference on Reproductive Behavior, Skidmore College, Saratoga Springs, New York, June, 1989.

Schneider, J.E. and G.N. Wade. Metabolic control of estrous cycles in Syrian hamsters. Society for Neurosciences, Toronto, Canada, November, 1988.

Schneider, J.E. and G.N. Wade. Metabolic signals mediating effects of starvation on reproduction in hamsters. Society for the Study of Reproduction, Seattle, Washington, August, 1988.

Schneider, J.E. and G.N. Wade. Common mechanisms mediating effects of starvation on reproduction in hamsters. Eighteenth Annual Steenbock Symposium on Biochemistry, Madison, Wisconsin, July, 1988.

Schneider, J.E. and G.N. Wade. Litter size and sex ratio in hamsters: influence of mothers' fatness and food supply. Society for the Study of Evolution and American Society of Naturalists, Asilomar, California, June, 1988.

Schneider, J.E. and G.N. Wade. Prior adiposity buffers the effects of starvation on estrous cycles and sex behavior in Syrian hamsters. Nineteenth Conference on Reproductive Behavior, Tlaxcala, Mexico, June, 1987.

Schneider, J.E. The effects of ovarian steroids on brown adipose tissue in cold-acclimated mice selectively bred for differences in nestbuilding. *Behavior Genetics*, 16:635, 1986.

Schneider, J.E., J.M. Hamilton and G.N. Wade. A possible genetic association between nestbuilding and brown adipose tissue thermogenesis in house mice. International Symposium on Living in the Cold, Fallen Leaf Lake, California, October, 1985.

Schneider, J.E. and J.M. Hamilton. Physiological aspects of thermoregulation in cold-acclimated mice from lines selected for nestbuilding. *Behavior Genetics*, 15:610, 1985.

Schneider, J.E., E. Haller, M. Stern, D. Block, and C.B. Lynch. The influence of exogenous progesterone on lines of mice divergent for maternal nesting. *Behavior Genetics*, 10:494-495, 1980.

Schneider, J.E., E. Haller, L.L. Demlow, and C.B. Lynch. Progesterone and maternal nesting in three inbred strains of mice. *American Zoologist*, 19:935, 1980.

Schneider, J.E., M. Batchelder, and C.B. Lynch. Developmental and experiential influences on nestbuilding in five strains of laboratory mice. *Behavior Genetics*, 8:565-566, 1978.

Performances

- Lehigh Valley Drum Circle Ensemble, Vagina Monologues, Zoellner Arts Center, Lehigh, February, 2007
- Lehigh Valley Drum Circle Ensemble, Arts Lehigh, December, 2006
- Lehigh Valley Drum Circle Ensemble, Allentown Fair, Allentown, PA, August, 2006
- Lehigh Valley Drum Circle Ensemble, MayFair, Allentown, PA, May, 2006
- Lehigh Valley Drum Circle Ensemble With Jim Donovan of Rusted Root, MayFair, Allentown, PA, May, 2005
- Lehigh Valley Drum Circle Ensemble, Palisades Middle School, Hellertown, PA, 2003
- Lehigh Valley Drum Circle Ensemble, Volksplatz, Musikfest, Bethelme, PA, August, 2003
- Vagina Monologues, Zoellner Arts Center, Lehigh University, February, 2003
- Lehigh Valley Drum Circle Ensemble, Foy Concert Hall, Moravian College, Bethlehem, PA, October, 2002

HONORS AND AWARDS

Recognition for distinguished service as Chair of the Education Committee, Society for Behavioral Neuroendocrinology, awarded in Scottsdale Arizona, June 2002.
Distinguished Associate Professorship, Endowed by Lehigh University Class of 1961, 1995-98
Research Scientist Career Development Award, National Institute of Mental Health, 1994-99
Frank A. Beach Award, Society for Neuroscience Behavioral Endocrinology Group, 1991
Honors in Psychology, Florida State University, 1977

GRANTS RECEIVED

Research Grants Received as Principal Investigator

NIH (NIDDK) "Rapid Restoration of the HPG System" (\$617,750.00, 9/1/2005-8/31/08)
NSF, "Metabolic Control of Behavior" (2nd renewal)(\$309,000.00, 2001-2005)
NSF, "Metabolic Control of Behavior" (renewal, \$277,000.00, 1997-2001)
NIH (NIDDK), "Glucoprivic Control of Reproduction" (\$640,000.00, 1997-2002)
NIMH, Research Scientist Career Development Award (\$312,549.000, 1994-99)
NSF, "Metabolic Control of Behavior" (\$340,000.00, 1992-97)
NSF, "Genetic Differences in Response to Hormones" (\$88,000.00, 1988-90)
Grant-In-Aid of Research, Society for *Sigma Xi* (\$800.00, 1980)

Research Grant Received as Collaborator

NIH Training Grant, awarded to Monell Chemical Senses Center, Philadelphia, PA
(\$40,000.00 in the form of a stipend and tuition for my graduate student, 2002-2004)

Conference Grants Received as Principal Investigator

NSF, "International Meeting of the SBN, Madrid, Spain" (\$10,000.00, 2000-2001)
NSF, "Meeting of the SBN, Scottsdale Arizona" (\$10,000.00, 2001-2001)

EDITOR/EDITORIAL REVIEW BOARD MEMBERSHIP FOR SCHOLARLY PUBLICATIONS

1997-present, Editorial Board Member, *Hormones and Behavior*, Academic Press

Ad hoc Reviewer of Journals:

Journal of Neuroendocrinology, 2006; *Brain Research*, 2003, *Proceedings of the National Academy of Science*, 2002-2005, *Journal of Sex Research*, 2003, 2006; *Journal of Clinical Endocrinology and Metabolism*, 2002; *Endocrinology*, 1998-2006, *American Journal of Physiology*, 1995-2006; *Physiology and Behavior*, 1994-2006; *Life Sciences*, 1999; *Biology of Reproduction*, 1998; *Journal of Experimental Biology and Medicine*, 1997-2003, *Journal of Mammalogy*, 1995

PROFESSIONAL PRESENTATIONS

Invited Presentations and Workshops (1993-2006)

Schneider, J.E. "Ingestive Behavior, Energy Balance and Reproductive Success," University of West Virginia, Morgantown, WV, September, 21, 2006.

Schneider, J.E. "Ingestive Behavior, Energy Balance and Reproductive Success," Department of Animal Science, Cornell University, Ithaca, NY, October 18, 2006.

Schneider, J.E. "Ingestive Behavior, Energy Balance and Reproductive Success," Center for Reproductive Science, Northwestern University, Evanston, IL, February 13, 2006.

Schneider J.E. "From Candlelight Dinner to Conception," Psychobiology and Behavioral Neuroscience Graduate Program, Ohio State University, Columbus, OH, February 16, 2006.

Schneider, J. E. "KEYNOTE ADDRESS: "Ingestive Behavior, Energy Partitioning and Reproduction" Purdue University, Graduate Program in Neuroscience Symposium and Retreat, March, 2004.

Schneider, J. E. "Signaling Molecules for Food Intake and Energy Balance," Ares Sero Foundation Symposium, Bristol, England, UK, September 1, 2002.

Schneider, J. E. "Food, fat and sex!: Ingestive behavior, energy partitioning and reproductive success" Rowett Institute, Aberdeen, Scotland, UK, June 27, 2002.

Schneider, J. E. "Neural Circuits Involved in Control of Food Intake and Reproduction" International Society for Neuroscience Annual Meeting, Capri, Italy, June 21, 2002.

Schneider, J. E. "Food, fat and sex!: Ingestive behavior, energy partitioning and reproductive success" University of Manchester, School of Biomedical Sciences, England, UK, June 17, 2002.

Schneider, J. E. "Food, fat and sex!: Ingestive behavior, energy partitioning and reproductive success" University of Nottingham, England, UK, June 11, 2002.

Schneider, J. E. "Ingestive behavior, energy balance and reproductive success" Washington and Lee University, Lexington, Virginia. May 29, 2002.

Schneider, J. E. "Metabolic and hormonal effects on reproduction" Prince Henry's Institute of Medical Research, Clayton, Victoria, Australia, April 19, 2002.

Schneider, J. E. "Signaling Molecules for Food Intake and Energy Balance," Brain Drain Symposium Department of Neuroscience, University of Southern California, Los Angeles, California, November 2, 2001.

Schneider, J. E. "To procreate or not to procreate; Is leptin the answer?" Department of Biology and Program in Neuroscience, University of Virginia, Charlottesville, Virginia, April, 2001.

Schneider, J. E. "To procreate or not to procreate; Is leptin the answer?" Department of Psychology, Florida State University, Tallahassee, Florida, November 15, 2000.

Schneider, J. E. "To procreate or not to procreate; Is leptin the answer?" Department of Neuroscience, Rutgers, University, New Brunswick, December 7, 2000.

Schneider, J. E., "Inhibition of Reproduction In Service of Energy Balance," Department of Psychology, Emory University, Atlanta, GA, November 12, 1999.

Schneider, J.E., Symposium Organizer and Chair, "Metabolic Control of Reproduction", American Neuroendocrine Society, San Diego, California, June 11, 1999.

Schneider, J.E. "Primary Metabolic Sensory Signals that Control Reproduction in Syrian hamsters", American Neuroendocrine Society, San Diego, California, June 11, 1999.

Schneider, J.E. "Inhibition of Reproduction In Service of Energy Balance," Department of Biological Science, Ohio University, Athens Ohio, May 3, 1999.

Schneider, J.E. "Inhibition of Reproduction In Service of Energy Balance," Neuroscience Program and Department of Physiology, University of Massachusetts Medical Center, Worcester, Massachusetts, February, 1999.

Schneider, J.E. "Metabolic Sensory Systems That Control Food Intake and Reproduction", National Institutes of Mental Health Workshop on Biological Approaches to the Study of Eating Disorders, December 7, 1998, Washington, D.C.

Schneider, J.E., G.N. Wade and M.I. Friedman "Possible Biological Roles of Leptin", Society for Behavioral Neuroendocrinology, Emory University, Atlanta, Georgia, June 11, 1998.

Schneider, J.E. and George N. Wade, "Reproductive Regulation in Service of Energy Balance", Society for Behavioral Neuroendocrinology/Conference on Reproductive Behavior, Johns Hopkins University, Baltimore, Maryland, May 30, 1997.

Schneider, J.E. "Reproductive Regulation in Service of Energy Balance", University of Pennsylvania Feeding Seminar, University of Pennsylvania, Philadelphia, Pennsylvania, April 9, 1997.

Schneider, J.E. "Reproductive Regulation in Service of Energy Balance", Department of Psychology, Michigan State University, East Lansing, Michigan, March 13, 1997.

Schneider, J.E. "Reproductive Regulation in Service of Energy Balance", MSU Biobehavioral Seminar Series, Michigan State University, East Lansing, Michigan, March 14, 1997.

Schneider, J.E. "Metabolic Control of Reproduction in Female Mammals", Center for Behavioral Neuroscience, Concordia University, Montreal, Quebec, Canada, April 21, 1995.

Schneider, J.E. "Classroom Climate Workshop II" Sponsored by the College of Arts and Sciences and Women's Studies Council, May, 1995.

Schneider, J.E. "Metabolic Control of Reproduction" Department of Psychology, Bucknell University, April 22, 1994.

Schneider, J.E. "Metabolic Sensory Systems that Mediate Effects of Metabolic Fuels on Reproduction" Department of Biological Sciences, Temple University, February 14, 1994.

Schneider, J.E. and H. Stewart-Gambino "Classroom Climate Workshop" Sponsored by the College of Arts and Sciences and Women's Studies Council, January 17, 1994.

Schneider, J.E., Symposium Organizer and Chair, Environmental Influences on Reproduction. Title of talk: "Metabolic sensory systems that mediate the effects of food intake and body fat on reproduction." Conference on Reproductive Behavior, Michigan State University, East Lansing, Michigan, June, 1993.

Schneider, J.E. "Issues for women in science". Lehigh University Women's Studies Brown Bag Series, Lehigh University, Bethlehem, Pennsylvania, April 28, 1993.

Schneider J.E. "Bringing women to the center of the scientific process". College of Arts and Sciences, University of South Florida, Tampa, Florida, March 22, 1993.

Schneider, J.E. "Metabolic control of female reproductive behavior". College of Arts and Sciences, University of South Florida, Tampa, Florida, March 23, 1993.

Schneider, J.E. "Metabolic sensory systems that control reproduction." Frontiers in Biomedical Science Seminar Series, College of Arts and Science, Undergraduate Science Program, Rutgers University, February 2, 1993.

Conferences/Symposia Organized

Organizer of Workshop, "Not for Women Only: Balancing Family and a Scientific Career," Society for Behavioral Neuroendocrinology, Scottsdale Arizona, 2002

Organizer of Workshop, "Nontraditional Careers for Behavioral Neuroendocrinologists," Society for Behavioral Neuroendocrinology, Scottsdale Arizona, 2002

Symposium Organizer, Chair, "Metabolic Control of Reproduction," American Neuroendocrine Society, San Diego, California, June, 1999.

Hosted (with John Nyby) Conference on Reproductive Behavior Annual Meeting, Lehigh University, June, 1994.

Symposium Organizer, "Environmental Influences on Reproduction," Conference on Reproductive Behavior, Michigan State University, East Lansing, Michigan, June 1993.

Professional Affiliations

American Association for the Advancement of Science
Association of Neuroscience Departments and Programs
Society for Behavioral Neuroendocrinology
Society for Neuroscience
Secret Ninja Society

TEACHING AND ADVISING

Courses Taught in Last Five Years (on sabbatical 2001-2002)

Fat Biology (college seminar with 20 first year undergraduates)
Behavioral Endocrinology (30-45 undergraduates, 2-4 graduate students/year)
Advanced Behavioral Neuroendocrinology (2-5 graduate students/year)
Professional Skills in Biological Sciences (2-5 graduate students/year)
Reproduction in Context (6 graduate students)

Students Advised in Last Five Years (other than research supervision)

Undergraduate: 5-16 Behavioral Neuroscience Majors/year
Graduate: 3/year one-on-one
10/year as member of the precandidacy graduate advisor's group

Students Supervised in Their Research

Undergraduate: 2-4/year
Masters: 1/year
Doctoral: 3/year at Lehigh University, 1/year outside Lehigh University

Doctoral Students in my laboratory at Lehigh University

Dan Zhou, Ph.D., 2002
Robert Blum, Ph.D. 2004
Carol Buckley (Ph.D. 2007)
Laura Szymanski (2000-present)

Masters Students in my laboratory at Lehigh University

Bridget Finnerty, 1993-1997
Kiana Owzar, 1997-2000

Doctoral Committees At Lehigh University

Maurice Sipos, 1991-1994
Athena Colger-Clifford, 1991-1997
John Leiser, 1997-2003
Nick Santangelo, 1997-2003
Jing Wang, 1998-2004

Thesis Committees Outside Lehigh University Department of Biological Sciences

Master's Thesis of Alfonso Ibiza, Department of Psychology, Concordia University, Canada,
1995, Present: Postdoctoral Research Associate, University of South Florida,
Ph.D. Thesis of Amy O'Brian, Department of English, Lehigh University, Present location
unknown
Ph.D. Thesis of Diane E. Day-Balch, Department of Biology, Georgia State University

Present: Postdoctoral Research Associate, Georgia State University

Ph.D. Qualifying Exam Committees

Maurice Sipos, 1992

Sue McKenna, 1994

Dan Zhou, 1999

Robert Blum, 1999

Nicholas Santangelo, 1999

Jing Wang, 2000

Laura Szymanski, 2003

Carolyn Buckley, 2003

Jennifer Gagliardi, 2003

Natalie Van Brueklyn, 2003

Xinlang Li, 2006 and 2007

Abigail Patishall, 2006

Bradley Walters, 2007

Jennifer Snekser, 2007

Matthew Close, 2007

PROFESSIONAL SERVICE

Lehigh University Professional Service

(* = multidisciplinary cross college service)

*Lehigh University Research Council, 2004-2006

*Graduate and Research Committee, 2005-2006

*Graduate Life Committee (a subcommittee of the GRC), 2005-2006

*Chair, Graduate and Research Committee, 2004-2005

*Graduate and Research Committee, 2003-2004

*Funding Workshop for New Faculty, 2002-2003

*Lipsch Award Committee, 2002-2003, 2004-2006

*Bioengineering Curriculum and Proposal Development Committee, 2000-2001.

*Co-chair, Cross-college Workshop on Biological Sciences/Biotechnology, 2000

*Ventures Proposal Committee, 1999-2001

*Search Committee for the Vice-Provost for Research, 1999

*Visiting Lecture Series, 1997-1999

*Women in Science and Engineering, 1992-1997

*C.H.O.I.C.E.S. Program Participant 1993-2000, 2003, 2005

College of Arts and Science Professional Service

Search Committee Member for the Earth and Environmental Sciences Faculty Position, 2001

Women's Studies Program, 1992-1997

Department of Biological Sciences, Professional Activities

Search Committee Member, Evolutionary Biology, 2006-2007.
Chair Search Committee for Receptor Biology Search 2004-2005.
Search Committee Member for Evolution Search 2002-2003.
Chair, Search Committee for Integrative Systems Physiologist Search, 2000-2001.
Graduate Committee, 1995-present
co-author of the Graduate Committee Evaluation Document, 1999.
Department Colloquium Series Organizer, 1998-2001.
Director, Central Animal Facility, 1996-present
Institutional Animal Care and Use Committee, 1992-present
Representative to the Association of Neuroscience Departments and Programs, 1995-present
Howard Hughes Outreach to Marvine Elementary School 1994-99

International/National Committees

Advisory Panel Member, Federal Funding Agencies
National Institutes of Health (NIH, reviews R01 and R21 research grants and career awards)
 NNB Advisory Panel, 2005-2006
 IFCN1 Advisory Panel, 2003
 Psychobiology/Behavioral Neuroscience Advisory Panel, 1997
National Institute of Mental Health (NIMH)
 Advisory Panel on Eating Disorders, 1998
National Science Foundation (NSF)
 Neuroendocrinology Review Panel, 1995

Ad hoc Reviewer for National Funding Agencies (1990-2006): National Research Council of Canada; National Science Foundation, "Neuroendocrinology", "Animal Behavior"; United States Department of Agriculture, "Reproductive Biology"; National Institute of Health, "Mammalian Physiology".

International/National Societies

Member, Executive Committee, Society for Behavioral Neuroendocrinology, 2006-present
Chair, Awards Committee, Society for Behavioral Neuroendocrinology, 2003-2006
Chair, Education Committee, Society for Behavioral Neuroendocrinology, 1999-2001
Education Committee Member, Society for Behavioral Neuroendocrinology, 1998-1999
Frank A. Beach Award Committee Member, Society for Behavioral Neuroendocrinology
1992-4