

Society for Behavioral Neuroendocrinology Annual Meeting

Host: Arizona State University

Site: Doubletree Scottsdale Paradise Valley Resort

June 27-30, 2001

FINAL PROGRAM

REGISTRATION DAY: June 27 (Wednesday):

1:00 – 6:00 PM Registration (Southwest Foyer)

1:00 – 5:00 PM Pre-meeting Workshop "Future of Stress Research", ASU Faculty Club, vans will leave Doubletree at 12:30 PM Organizers: Bruce McEwen and Kathy Matt

4:30-7:00 PM, SBN Executive Board Meeting (Flagstaff Room)

6:00 – 8:00 PM, Opening Reception (North Pool, or South Forum if weather is too hot)

DAY 1: JUNE 28 (THURSDAY)

Day 1 (Thursday) Morning:

8:00 AM – 8:00 PM, Forum open for poster setup and viewing, all posters must be up by 9:00 AM and down by 8:00 PM

8:00 AM – 4:00 PM, Registration (Southwest Foyer)

8:00 AM – 4:00 PM, Speaker Ready Room (Director's Boardroom, slide projector and screen available)

8:15 Brief welcome (Grand Ballroom)

Symposium 1: Neuroendocrine-immune interactions (Grand Ballroom)

Chair: Greg Demas

8:30 Rae Silver (Columbia University) *Gonadal hormone effects on brain mast cell migration*

9:00 Joe Casto (Indiana University) *Testosterone and immune function in a songbird: direct and indirect effects*

9:30 David Mann (Morehouse School of Medicine) *Effect of GnRH and seasonality on immune function in primates*

10:00 Coffee Break (Forum)

10:30 Greg Demas (Georgia State University) *You're getting on my nerves: sympathoadrenal regulation of seasonal changes in immune function in rodents*

11:00 Contributed papers (Grand Ballroom)

Chair: Catherine Woolley

11:00 Staci Bilbo and Randy Nelson (Johns Hopkins University and Ohio State University) *Short day lengths attenuate the symptoms of infection in Siberian hamsters*

11:20 Deborah Drazen, Gregory Demas, Jill Schneider, and Randy Nelson (Johns Hopkins University, Georgia State University, Lehigh University, and Ohio State University) *Leptin reverses the immunosuppressive effects of short days and 2-DG in male Siberian hamsters*

11:40 Sarah Woodley, Y.-M. Chang, and M. J. Baum (Boston University) *Ferrets apparently lack atypical glomeruli in the main olfactory bulb*

12:00-1:30 Lunch

12:00 – 1:30 Meet the Professor Lunches, sign up at registration (Flagstaff)

12:00 – 1:30 PM SBN Advisory Board Meeting (4 Peaks Room)

Day 1 (Thursday) Afternoon:

Symposium 2: Brain morphometry as a tool for investigating the neural bases of behavior: advantages, limitations, and alternatives(Grand Ballroom)

Chairs: Mike Moore and Pierre Deviche

1:30 Eliot Brenowitz (University of Washington) *Brain morphometry and behavior in the avian song control system*

2:00 Christina Williams (Duke University) *Estrogens and cognition: what's the evidence for a structure-function relationship?*

2:30 Coffee Break (Forum)

3:00 Andy Bass (Cornell University) *Fish songs: temporal scaling of divergent vocal phenotypes for alternative male reproductive morphs*

3:30 Pauline Yahr (UC Irvine) *Identifying cell groups in the brain that regulate male sex behavior*

4:00-7:00 Poster session I (numbers 1 through 51, see list at end of program), Cash Bars, (Forum)

5:00-7:00 Workshop for students and postdocs: "Careers in Industry for Behavioral Neuroendocrinologists" refreshments provided (Chambers)

7:30-9:00 Informal roundtable on brain morphometry Cash Bar (4 Peaks Room)

DAY 2: JUNE 29 (FRIDAY)

Day 2 (Friday) Morning:

8:00 AM – 8:00 PM, Forum open for poster setup and viewing, all posters must be up by 9:00 AM and down by 8:00 PM

8:00 AM – 1:00 PM, Registration (Southwest Foyer)

8:00 AM – 4:00 PM, Speaker Ready Room (Director's Boardroom, slide projector and screen available)

Presidential Symposium: Humans, Hormones, and Sex Differences in Behavior (Grand Ballroom)

Chair: Kim Wallen

8:30 Melissa Hines, (City University, London, UK.) *Prenatal androgen and gender role behavior in girls and boys from a longitudinal population sample*

9:00 Dennis McFadden (University of Texas - Austin) *Prenatal hormones, sexual orientation, and the auditory system*

9:30 Marcia Collaer (Middlebury College, VT) *Exploring a role for ovarian hormones in cognitive development: Evidence from Turner syndrome*

10:00 Coffee Break (Forum)

10:30 Sheri Berenbaum (Southern Illinois University School of Medicine) *Prenatal androgen effects on human social behavior*

11:00 Contributed papers (Grand Ballroom)

Chair: Elizabeth Adkins-Regan

11:00 Amy Wisniewski, Claude Migeon, Heino Meyer-Bahlburg, John Gearhart, Gary Berkovitz, Terry Brown, and John Money (Johns Hopkins University, Columbia University, and University of Miami) *Degree and timing of prenatal androgen exposure is not related to atypical gender identity in 46,XY intersex subjects with androgen insensitivity, gonadal dysgenesis or congenital micropenis*

11:20 Heino Meyer-Bahlburg, C. Dolezal, S. W. Baker, A. Carlson, J. Obeid, M. Vogiatzi, and M. I. New (NYSPI, Columbia University, New York Presbyterian Hospital, and Cornell University) *Does prenatal glucocorticoid replacement reduce behavioral masculinization in girls with congenital adrenal hyperplasia?*

11:40 Shiva Gupta, Richmond Thompson, S. Orr, K. Miller, and S. Mills (Bowdoin College, Harvard University, and MidCoast Hospital) *Vasopressin effects on social cognition in humans*

12:00-1:30 Lunch

12:00 – 1:30 Meet the Professor Lunches, sign up at registration (Flagstaff)

Day 2 (Friday) Afternoon:

Symposium 4: Cellular and molecular mechanisms of sexual differentiation of the brain (Grand Ballroom)

Chairs: Geert DeVries and Margaret McCarthy

1:30 Margaret McCarthy (University of Maryland, Baltimore) *Excitatory versus inhibitory GABA as a major mediator of steroid-induced differentiation of the hypothalamus*

2:00 Rich Simerly (Oregon Health Sciences, Beaverton) *Target specific differentiation of sexually dimorphic forebrain connections*

2:30 Coffee Break (Forum)

3:00 Christine Wagner (SUNY Albany) *Sex differences in progesterone receptor expression in the developing brain: a tale of two nuclei*

3:30 David Skuse (Institute of Child Health, London UK) *Sexual dimorphism and autism: a review of potential genetic mechanisms*

4:00-7:00 Poster session II (numbers 52 through 98, see list at end of program) Cash Bars, (Forum)

7:30 Panel discussion for students and postdocs: "Strategies for Balancing Careers and Family: Not for Women Only"

Panelists: Matthew Grober, & Jill Schneider - refreshments provided (Chambers)

DAY 3: JUNE 30 (SATURDAY)

Day 3 (Saturday) Morning:

8:00 AM – 8:00 PM, Forum open for poster setup and viewing, all posters must be up by 9:00 AM and down by 8:00 PM

8:00 AM – 1:00 PM, Registration (Southwest Foyer)

8:00 AM – 4:00 PM, Speaker Ready Room (Director's Boardroom, slide projector and screen available)

Symposium 5: Cell and molecular basis of behavioral neuroendocrinology: a comparative approach (Grand Ballroom)

Chair: Nancy Wayne

8:30 Nancy Wayne (UCLA) *Calcium regulation of neurohormone secretion in the marine mollusk Aplysia*

9:00 Pei-San Tsai (University of Colorado at Boulder) *Characterization of a novel molluscan gonadotropin-releasing hormone system*

9:30 Randy Hewes (Washington University) *Making a peppy fly: genetic analysis of neuropeptide signaling and behavior*

10:00 Coffee Break (Forum)

10:30 Harold Zakon (University of Texas at Austin) *Behavior to ion channels: the view from electric fish*

11:00 Contributed papers (Grand Ballroom)

Chair: Rae Silver

11:00 P. Gasser, and M. Orchinik (Arizona State University) *Corticosterone and vasopressin regulate protein kinase C signal transduction in an amphibian brain*

11:20 Lisa Belden, Ignacio Moore, Audrey Hatch, Robert Mason, and Andrew Blaustein (Oregon State University and University of Washington) *The effects of UV-B radiation exposure on activity and circulating corticosterone levels in roughskin newts*

11:40 Matthew Lovern and Juli Wade (Michigan State University) *Testosterone and embryonic development in lizards*

12:00-1:30 Lunch

12:00 – 1:30 Meet the Professor Lunches, sign up at registration (Flagstaff)

12:30 – 1:15 Society-wide Business Meeting (Grand Ballroom)

Day 3 (Saturday)Afternoon:

Symposium 6: Neuroendocrinology of ingestive behavior (Grand Ballroom)

Chairs: Nori Geary and Jennifer Swann

1:30 Randy Seeley (University of Cincinnati Medical School) *The CNS melanocortin system in the control of food intake and body weight: giving with one hand and taking with the other*

2:00 Per Sodersten (Karolinska Institute)*The cause of eating disorders*

2:30 Coffee Break (Forum)

3:00 Nori Geary (Weill Medical College of Cornell University) *Estrogenic control of meal size*

3:30 Cecilia Bergh (Karolinska Institute)*The treatment of eating disorders*

4:00-7:00 Poster session III (numbers 99 through 149, see list at end of program) - Cash Bars, Forum

8:00 – 12:00 BANQUET (Grand Ballroom)

Banquet is included in registration. All registered participants may attend banquet at no further charge. Others must purchase ticket at registration.

Announcement of Student Awards

Dancing following banquet

DEPARTURE DAY: July 1 (Sunday)

POSTER SESSION I: THURSDAY JUNE 28, 4:00 – 7:00 PM

1. Kauffman, A. S., and Zucker, I.
Gonadal recrudescence in intermediate day lengths reflects loss of photoperiodic memory in Siberian hamsters
2. Caldwell, H. K., and Albers, H. E.
Vasopressin-induced flank marking is not reduced in Syrian hamsters exposed to short photoperiods
3. Anand, S., Turek, F. W., and Horton, T. H.
Does stress alter female-induced luteinizing hormone (LH) release in male Siberian hamsters?
4. Weiss, A. E., Orchinik, M., and Matt, K. S.
Glucocorticoid receptor levels in the separation stress syndrome of male Siberian dwarf hamsters (*Phodopus sungorus*)
5. Mintz, E. M.
Stress-induced c-fos expression in the suprachiasmatic nucleus is not blocked by 8-OH-DPAT
6. Pak, T. R., Lynch, G. R., and Tsai, P.-S.
Differential effects of GnRH on *in vitro* LH and FSH secretion in testosterone and estrogen-treated male Siberian hamsters
7. Rodman, J. E., Helmreich, D. L., Holmer, H. K., and Parfitt, D. B.
Two days of controllable or uncontrollable stress does not inhibit mating in the male Syrian hamster (*Mesocricetus auratus*)
8. Burgess, E., and Matt, K. S.
Gender differences in the neuroendocrine response to stress in Siberian dwarf hamsters (*Phodopus sungorus*)
9. Ramage-Healey, L., Romero, L. M., and Adkins-Regan, E.
Behavioral and physiological responses to pair bond disruption in the zebra finch, *Taeniopygia guttata*
10. Small, T. W., and Deviche, P.
Environmental control of seasonal reproduction in a temporally variable breeder, the Rufous-winged Sparrow, *Aimophila carpalis*
11. Schoech, S. J.
Nutrition and the timing of reproduction in a free-living songbird
12. Moore, I. T., Wada, H., Perfito, N., and Wingfield, J.
Territoriality in an equatorial environment
13. Hau, M., Wingfield, J. C., and Soma, K. K.
Hormonal control of year-round territorial aggression in male and female tropical birds
14. Sperry, T. S., and Wingfield, J. C.
Acute effects of fluoxetine upon territorial aggression in male free-living American tree sparrows, *Spizella arborea*
15. Soma, K. K., Schlinger, B. A., Wingfield, J. C., and Saldanha, C. J.
Brain aromatase activity and aggression are reduced in molting songbirds
16. Hirschenhauser, K., Winkler, H., and Oliveira, R. F.
The ‘challenge hypothesis’ revisited: control for phylogeny
17. Pilz, K. M., Quiroga, M., and Smith, H. G.
Yolk androgens do not influence growth or begging behavior

of European starling (*Sturnus vulgaris*) chicks

18. Foerster, K., and Kempnaers, B.

Do high plasma levels of testosterone make blue tit males more attractive?

19. Auger, C. J., Olesen, K. M., and Ball, G. F.

Nuclear receptor coactivator expression in steroid receptor containing cells in European starling brain

20. Maney, D. L., and Ball, G. F.

Fos and ZENK immunoreactivity in the preoptic area following copulation solicitation in female white-throated sparrows

21. Absil, P., Braquenier, J. B., Balthazart, J., and Ball, G. F.

Effects of archistriatal lesions on the expression of appetitive and consummatory sexual behavior in male quail

22. Balthazart, J., Stamatakis, A., Bacola, S., Absil, P., and Dermon, C. R.

Anatomical specificity in the effects of testosterone and lesions of the medial preoptic nucleus on 2-deoxyglucose uptake in male quail brain

24. Amory, E. A., and Rissman, E. F.

Mating induced neurogenesis in the adult female mouse olfactory bulb

25. Nagatani, S., and Wood, R. I.

Chemosensory regulation of medial preoptic area dopamine release in male hamsters

26. Simmons, D., and Yahr, P.

Posterodorsal preoptic nucleus (PdPN) and posterodorsal medial amygdala (MeApd) cells that are activated with ejaculation: additional projections and presence of nitric oxide synthase (NOS)

27. Harding, S. M., and McGinnis, M. Y.

Testosterone propionate in the VMN of the hypothalamus is sufficient to restore partner preference in castrated male rats

28. Roselli, C. E., Cross, E., Poonyagariyagorn, H. K., and Stadelman, H. L.

Role of aromatization in anticipatory and consummatory aspects of sexual behavior in male rats

29. Cooke, B. M., Jordan, C., and Breedlove, S. M.

The effect of androgen metabolites on sexual arousal and neuronal phenotype in the medial amygdala

30. Balfour, M. E., Yu, L., and Coolen, L. M.

Activation of ventral tegmental neurons following sexual behavior in male rats

31. Truitt, W. A., and Coolen, L. M.

Ejaculation-induced neural activation in lumbar spinal cord of the rat.

32. Wells, A. B., and Coolen, L. M.

Lumbar spinal cord efferents directly contact thalamic neurons that project to MPOA or BNST

33. Braham, C. S., Sato, S., and Hull, E. M.

Co-localization of Fos and NOS after copulation

34. Sato, S., and Hull, E. M.

Co-localization of estrogen receptor α and nitric oxide synthase in the medial preoptic area of male rats

35. Dominguez, J. M., Smith, D. J., Faulring, C. S., and Hull, E. M.

Stimulation of the medial amygdala induces medial preoptic dopamine release: implications for male sexual behavior

36. Smith, D. J., Dominguez, J. M., and Hull, E. M.

Reversal of sexual satiety by a 5-HT₂ receptor antagonist

37. Murphy, A. Z., and Marson, L.

Identification of neural circuits involved in female sexual response: a virus and anterograde tracing study

38. Calizo, L. H., and Flanagan-Cato, L. M.

Estrogen alters spine density on female rat ventromedial hypothalamic neurons (VMH) that project to the periaqueductal gray (PAG)

39. Orikasa, C., Hayashi, S., McEwen, B. S., and Sakuma, Y.

Sex difference in ER β expression in the anteroventral periventricular nucleus of the rat preoptic area

40. Luine, V., Ferguson, D., Kondo, Y., and Sakuma, Y.

Differential activation of dopamine in brain areas during paced sex

41. Cushing, B. S., Klein, D., Hoffman, G. E., Carter, C. S., Le, W. W., and De Vries, G. J.

Comparison of fixation techniques: immersion versus perfusion

42. Lehmann, M. L., and Erskine, M. S.

Spaced NMDA infusions into the mAMYG increase the occurrence of pseudopregnancy (PSP) in intact cycling female rats

43. Khalil, M., Asarian, L., Silverman, A. J., and Silver, R.

Gonadotropin-releasing hormone in rat brain mast cells

44. Mills, R. H., Sohn, R. K., and Micevych, P. E.

Effects of neuropeptide Y on steroid activation of m-opioid receptor and neuropeptide Y-Y1 receptor in the hypothalamus in female rats

45. Pedersen, C. A., and Boccia, M. L.

Large changes in MPOA and VMH receptor binding during shift from oxytocin initiation to maintenance of progesterone-induced female sexual receptivity

46. Pedersen, C. A., and Boccia, M. L.

Oxytocin reverses vasopressin inhibition of female sexual receptivity

47. Mahoney, M., and Smale, L.

Vasoactive intestinal polypeptide and gonadotropin releasing hormone immunoreactive cells in diurnal grass rats

48. Dailey, M. J., Koch, K. A., Daniels, D., Miselis, R. R., and Flanagan-Cato, L. M.

Intrahypothalamic injection of pseudorabies virus (PRV) does not reduce the number of estrogen receptor α (ER)-immunoreactive cells

49. Caldwell, J. D., Hoefle, S., Englof, I., Mott, P., and Morris, M.

Behavioral and physiological actions of sex hormone binding globulin in brain: evidence of receptors

50. Witt, D. M., and Mitrani, P. A.

Sex differences in plasma membrane responses following progesterone stimulation

51. Rudick, C. N., and Woolley, C. S.

Tamoxifen effects on phasic estradiol-induced activation of hippocampal CA1 pyramidal cells

POSTER SESSION II: FRIDAY JUNE 29, 4:00 – 7:00 PM

52. Fane, B., Brook, C., and Hines, M.

Gender role behavior and targeting ability in children with congenital adrenal hyperplasia

53. Brown, W. M., Hines, M., Fane, B., and Breedlove, S. M.

Masculinized finger length ratios in humans with congenital adrenal hyperplasia

54. Brown, W. M., Finn, C., and Breedlove, S. M.

A sex difference in digit length ratios in mice

55. Mason, J. M., Bader, C. M., Johnston, J. D., Wingate, A. E., Broussard, J. R., Suire, J. G., Laubscher, M. J., and Lynch, C. S.

Gonadal steroid regulation of learning and memory in young women across the menstrual cycle

56. Bader, C. M., Mason, J. M., Johnston, J. D., Wingate, A. E., Broussard, J. R., Suire, J. G., Laubscher, M. J., and Lynch, C. S.

Gonadal steroid regulation of learning and memory in young women taking oral contraceptives

57. Newman, M. L., and Josephs, R. A.

Baseline testosterone moderates cognitive performance under conditions of stereotype threat

58. Marriott, L.K., Hauss-Wegrzyniak, B., Benton, R.S., Vraniak, P.D., and G.L. Wenk

The role of estrogen and chronic brain inflammation in Alzheimer's disease

59. Traustadóttir, T., Bosch, P., and Matt, K. S.

Neuroendocrine stress responses: effect of gender

60. Zehr, J. L., Van Meter, P., and Wallen, K.

Sex and ovulation at puberty--a foregone conclusion?

61. Phoebus, E., Mitz, A., Pohida, T., Pursley, R., Parjevic, S., Van Rooy, A., and Suomi, S.

Simultaneous physiological and behavioral measures in male and female rhesus monkeys (*Macaca mulatta*) during reproductive activity

62. Sousa, M. B. C., Silva, H. P. A., and Otta, E.

Differences in the onset of maturation of hypothalamic pituitary-testis axis and responses to pairing in adult common marmoset (*Callithrix jacchus*) males

63. Tannenbaum, P. L., Ferris, C. F., Snowdon, C. T., King, J. A., Ziegler, T. E., Schultz-Darken, N. J., Duong, T. Q., Olson, D. P., Ludwig, R., Wu, Z., Sullivan, J., and Vaughan, J. T.

Male marmosets differentiate sexually relevant olfactory cues during functional brain imaging

64. Guard, H. J., Newman, J. D., and Roberts, R. L.

Opiate facilitation of social play in common marmosets

65. Cavigelli, S. A., Levash, W., Dubovick, T., Pitt, A., and Jolly, A.

Social dominance and fecal cortisol levels in non-communally-breeding prosimian primate females

66. Wommack, J. C., and Delville, Y.

Chronic stress during puberty accelerates the development of aggressive behavior

67. Jasnow, A. M., and Huhman, K. L.

Conditioned defeat is blocked by antagonism of corticotropin-releasing hormone receptors in the bed nucleus of the stria terminalis

68. Scordalakes, E. M., and Rissman, E. F.

Estrogen receptor-alpha regulates aggression and gender recognition in C57BL/6J male mice

69. Razzoli, M. I., Valsecchi, P., Carter, S., and Cushing, B.

Hormonal regulation of agonistic and affiliative behaviors in female Mongolian gerbils

70. Oyegbile, T., and Marler, C. A.

The winner effect and testosterone levels in *Peromyscus* mice

71. Demas, G. E., Huhman, K. L., Bartness, T. J., and Jasnow, A. M.

Melatonin mediates short-day increases in aggression of male Syrian hamsters (*Mesocricetus auratus*)

72. Korzan, W. J., Summers, T. R., and Summers, C. H.

Aggression toward a reflected image or live combat

73. Weiss, S. L., and Moore, M. C.

Effect of testosterone and progesterone on male aggression in the tree lizard

74. Smith, L. C., and John-Alder, H. B.

Hormones, behavior, and coloration in dominant and subordinate male lizards (*Sceloporus undulatus*) during continuous and intermittent staged encounters

75. Amateau, S. K., Alt, J. J., and McCarthy, M. M.

An estradiol-mediated mechanism of astrocyte-to-neuron communication involving prostaglandin-E₂ in the perinatal preoptic area

76. Auger, A. P., Perrot-Sinal, T. S., Auger, C. J., and McCarthy, M. M.

Differential expression of nuclear receptor co-activators in neonatal male and female rat brain

77. Nuñez, J. L., Alt, J., and McCarthy, M. M.

Neonatal muscimol has deleterious effects on rat hippocampus: effect of sex and hormones

78. Perrot-Sinal, T. S., Auger, A. P., and McCarthy, M. M.

A sexually dimorphic response to GABA in neonatal brain is mediated by calcium influx

79. Sickel, M. J., and McCarthy, M. M.

Hormone and neurotransmitter modulation of calbindin-D28k expression in the neonatal hypothalamus

80. Kudwa, A. E.; Schank, J.; Honda, S-I; and Rissman, E. F.

Aromatase gene modulates sex differences in progesterone receptor induction by estradiol

81. Pfau, J. L., Quadros, P. S., De Vries, G. J., and Wagner, C. K.

Progesterone receptor expression in the developing hypothalamus: a species difference in the hormonal regulation of sex differences

82. Lopez, V., Nakayama, A. Y., and Wagner, C. K.

Transient progesterone receptor immunoreactivity in the developing rat neocortex

83. Palanza, P., Howdeshell, K., Parmigiani, S., and vom Saal, F. S.

Behavioral effects of prenatal exposure to the environmental estrogen bisphenol A in mice are influenced by endogenous sex hormones during fetal development

84. Pych, J. C., Webb, S., and Juraska, J. M.

Peripubertal estrogen influences the myelination of the rat corpus callosum

85. van Eerdenburg, F. J. C. M., and Verhoeven, H.

The influence of environmental stress around puberty on fertility in dairy cattle: possible relations with sexual differentiation ?

86. Xu, J., and Arnold, A. P.

Expression of sex chromosome genes in mouse brain

87. Carruth, L. L., Ramachandran, B., McClive, P., Sinclair, A., and Arnold, A. P.

Sex differences in gene expression in the hatchling zebra finch brain

88. McMunn, K. A., and Katz, L. S.

Testosterone-induced sexual behavior in castrated, sexually inexperienced goats

89. deCatanzaro, D., Vella, E. S., and Muir, C.

17 β -estradiol in males' urine is elevated by exposure to females and diminished by sexual satiety

90. Kondo, Y., Watanabe, M., and Sakuma, Y.

Ovarian hormones in females regulate paced mating and sexual preference of male and female rats

91. Jenkins, W. J., and Becker, J. B.

Sexual behavior that occurs at the female rat's preferred pacing interval is reinforcing

92. Cameron, N., and Erskine, M. S.

Adrenalectomy enhances the acute prolactin surge induced by mating in ovariectomized estrogen treated rats, and causes early onset of the nocturnal surge

93. Imwalle, D. B., and Rissman, E. F.

Neonatal estradiol benzoate treatment improves spatial learning in adult female but not male mice

94. McGowan, P. O., and Williams, C. L.

Social recognition memory in mice: modulation by sex and estrogen treatment

95. Wersinger, S. R., Lolait, S. J., O'Carroll, A.-M., and Young, W. S. III

Deficits in social memory in male vasopressin 1b receptor knockout mice

96. Conrad, C. D., MacMillan, D. D., McKissick, J. P., Fuchs, R. A., and Jackson, J. L.

Fear conditioning to context and tone is enhanced by chronic corticosterone administration and this effect is attenuated by amygdala inactivation or lesion

97. Briones-Aranda, A., Lopez-Rubalcava, C., and Picazo, O.

Forced swimming induces changes in anxiety levels of mice

98. Woodson, J. C., Park, C. R., and Diamond, D. M.

Exposure to a cat produces complete retrograde amnesia in rats

POSTER SESSION III: SATURDAY JUNE 30, 4:00 – 7:00 PM

99. Maldonado, T., and Tsai, P.-S.

Immunocytochemical localization of GnRH in the molluscan central and peripheral nervous system

100. Morin, S., and Zakon, H.

Cloning of neural sex steroid receptors in two sexually dimorphic, congeneric species of weakly electric fish

101. Semsar, K., and Godwin, J.

Social and gonadal influences on arginine vasotocin expression in a coral reef fish

102. Grober, M. S., Watkins, K. K., and Canario, A.

Effects of androgens on AVT mRNA expression in the POA of a sex-reversing fish

103. Marxer-Miller, S., Carlisle, S., Canario, A., Oliveira, R., Carneiro, L., and Grober, M.

Androgen effects on internal reproductive structures in a hermaphroditic fish

104. Knapp, R., Marchaterre, M. A., and Bass, A. H.

Relationship between courtship behavior and steroid hormone levels in parental male plainfin midshipman fish

105. Forlano, P. M., Deitcher, D. L., and Bass, A. H.

Distribution of aromatase mRNA in the brain and gonads of a polymorphic vocal teleost

106. Tsai, C.-L., Wang, L.-H., and Chua, W.-M.
Effects of the hypothalamic 5-HT, GABA, and NMDA systems in the behavioral thermoregulation of female tilapia
107. Ros, A. F. H., Canario, A. V. M., and Oliveira, R. F.
Partner availability affects male strategies and hormone levels in a tilapia with variable mating strategies (*Sarotherodon galilaeus*)
108. Crespi, E.
The importance of maternal effects on offspring survival in the woodland salamander, *Plethodon cinereus*
109. Jessop, T.
Ecological interactions modify daily profiles of melatonin and corticosterone in a crocodile, marine turtle and a toad
110. Jennings, D. H., Weiss, S. L., and Moore, M. C.
Ontogenetic changes in embryonic yolk steroid content in tree lizards: transfer from the developing embryo to the yolk?
111. O'Bryant, E. L., and Wade, J.
Testosterone regulation of behavior but not brain morphology in the green anole lizard
112. Krohmer, R. W., and Balthazart, J.
Co-localization of aromatase and nitric oxide synthase in the forebrain of the red-sided garter snake
113. Schuett, G. W., Repp, R. A., Taylor, E. N., DeNardo, D. F., Van Kirk, E. A., and Murdoch, W. J.
Plasma sex steroid levels of wild western diamondback rattlesnakes (*Crotalus atrox*) during winter
114. Schuett, G. W., O'Leile, J. K., Hardy, D. L., Greene, H. W., Van Kirk, E. A., and Murdoch, W. J.
Rattlesnake species with contrasting breeding systems show differences in seasonal profiles of sex steroids
115. Schuett, G. W., Taylor, E. N., Van Kirk, E. A., and Murdoch, W. J.
Effect of temperature and storage time on stability of sex steroids in blood from a squamate reptile
116. Schuett, G. W., Carlisle, S. L., Holycross, A.T., O'Leile, J., Hardy, D. L., Van Kirk, E. A., and Murdoch, W. J.
The breeding system of Mojave rattlesnakes (*Crotalus scutulatus*): timing of mating, sex steroids, spermatogenesis, and sexual segment cycle of the kidney in males
117. Aragona, B. J., Curtis, J. T., Davidson, A. J., Wang, Z., and Stephan, F. K.
Brain neurotransmitter levels during and prior to circadian food-anticipatory activity in rat
118. Blum, R. M., Scott, D. K., and Schneider, J. E.
Effects of leptin on metabolic fuels and estrous cyclicity during fasting
119. Buckley, C. A., and Schneider, J. E.
Leptin treatments that decrease food intake do not support a conditioned taste aversion in Syrian hamsters
120. Szymanski, L. A., Zhou, D., and Schneider, J. E.
Effects of fourth ventricle glucose utilization on estrous cyclicity in Syrian hamsters
121. Abizaid, A., and Woodside, B. C.

Food restriction and the suppression of the estrogen-induced LH surge during lactation: role of progesterone receptors

122. Chu, L., and Wood, R. I.

Testosterone and dopamine alter food choice with a cost/benefit test in male hamsters

123. Day, D. E., Mintz, E. M., and Bartness, T. J.

Diet choice increases food hoarding, food intake and pup survival in lactating hamsters

124. Preston, S. D., Raber, J., and Jacobs, L. F.

A stress-based mechanism for food-storing decisions in Merriam's kangaroo rats

125. Temple, J. L., and Rissman, E. F.

Glucose is necessary, but not sufficient for re-feeding induced restoration of mating behavior

126. Wynne-Edwards, K. E.

Plant defenses against herbivory as predictors of endocrine disruptor susceptibility: how shall we test the hypotheses?

127. Strader, A. D., and Buntin, J. D.

Agouti gene-related protein (AGRP) stimulates food intake in the ring dove and may mediate prolactin-induced hyperphagia

128. Ruscio, M. G., and Adkins-Regan, E.

C-fos expression during maternal behavior in Japanese quail (*Coturnix japonica*)

129. Ruscio, M. G., Carroll, J., and Adkins-Regan, E.

Parental behavior in male Japanese quail (*Coturnix japonica*)

130. Sockman, K. W., Schwabl, H., and Sharp, P. J.

Changes in plasma prolactin and testosterone concentrations associated with the transition from sexual to parental activity in male American kestrels

131. Roberts, R. L., Sanchez, I. M., Jenkins, K. T., and Newman, J. D.

The role of prolactin in alloparental behavior of common marmosets (*Callithrix j. jacchus*)

132. Reeder, D. M., Mendoza, S. P., Schradin, C., Mason, W. A., and Anzenberger, G.

Behavioral and hormonal components of paternal care in the monogamous titi monkey (*Callicebus moloch*)

133. González-Mariscal, G., Gallegos, J. A., Beyer, C., and Rosenblatt, J. S.

Contribution of suckling to maintaining and terminating rabbit maternal behavior

134. Popeski, N., and Woodside, B.

Central inhibition of nitric oxide synthase changes maternal behavior in rats

135. Olazabal, D. E., Rosenblatt, J. S., and Morrell, J. I.

Dopamine (DA) and serotonin (5-HT) content and metabolism in the circuit supporting maternal behavior (MB) in rats

136. Lonstein, J. S., Dominguez, J. D., Putnam, S. K., De Vries, G. J., and Hull, E. M.

Intracellular preoptic dopamine and serotonin during pregnancy and lactation in rats

137. Trainor, B. C., and Marler, C. A.

Aromatization of testosterone to estradiol is an important mechanism of paternal behavior in the California mouse

138. Pfeifer, L. A., Bales, K. L., and Carter, C. S.

Neonatal manipulation of oxytocin affects alloparental behavior in male prairie voles

139. Khatib, S. S., and Young, L. J.

Changes in prolactin and prolactin receptor expression in response to pup exposure in the biparental prairie vole

140. Lim, M. M., Insel, T. R., and Young, L. J.
The ventral pallidum in the monogamous prairie vole:neuroanatomy and activity during mating
141. Curtis, J. T., Liu, Y., and Wang, Z.
An intact vomeronasal organ is necessary for mating-induced pair bonding in female prairie voles
142. Fowler, C. D., Liu, Y., Ouimet, C., and Wang, Z.
Mating and social isolation differentially affect adult neurogenesis in the female prairie vole
143. Liu, Y., Curtis, J. T., and Wang, Z.
Pair bond formation in male prairie voles is regulated by vasopressin in the lateral septum
144. Mogeckwu, N., Carter, C. S., Hoffman, G. E., Le, W. W., and Cushing, B. S.
Cohabitation and the expression of c-fos in prairie voles
145. Okorie, U., and Cushing, B. S.
Neonatal testosterone affects the ability of arginine vasopressin to stimulate partner preference in adult male prairie voles
146. Dean, S. M., and Vandenbergh, J. G.
Prenatal exposure to antiandrogenic or estrogenic compounds alters monogamous behavior in pine voles (*Microtus pinetorum*)
147. Bales, K. L., and Carter, C. S.
Neonatal treatment with oxytocin affects selective sociality in male prairie voles
148. Bales, K. L., Abdelnabi, M., and Carter, C. S.
Neonatal injections affect reproductive parameters in male prairie voles
149. Harder, J. D., He, Y., Pizza, N., and Fadem, B. H.
Luteinizing hormone response to pairing in gonadectomized, estradiol-treated female and male gray short-tailed opossums (*Monodelphis domestica*)