

PROGRAM SCHEDULE

Wednesday, June 25-Day 1

12:30-5:00 **Workshop on “Functional Genomics in Behavioral Endocrinology”, Co-Chairs: Lique Coolen, University of Cincinnati and and Jessica Mong, Rockefeller, University.**

6:00-8:00 **Opening Reception**

Evening

8:00-10:00 **Workshop: “The Academic Job Search: When, Where, and How”, Chair: John Buntin, University of Wisconsin (Pizza Provided)**

Thursday, June 26-Day 2

Morning

8:15-8:30 **Brief Welcome- Members of the Local Organizing Committee**

8:30-9:30 **Keynote Address: Dr. Elizabeth Gould, Princeton University, Title: “Hormones, Experience and Neurogenesis”**

9:30-9:50 *coffee break*

9:50-12:00 **Symposium: “Timing and Mechanisms of Neural and Behavioral Change During Puberty”; Co-Chairs: Kim Wallen, Emory University and Cheryl Sisk, Michigan State University.**

10:00-10:30 Leslie M. Jackson, Theresa M. Lee, Ruth I. Wood, Jane E. Robinson, Vasantha Padmanabhan, Douglas L. Foster
Prenatal Programming of Sex Differences in the Timing of Puberty in Sheep

10:30-11:00 Cheryl L. Sisk
Behavior@Puberty.org

11:00-11:30 Julia L. Zehr
Prenatal Hormonal Influences on Female Rhesus Monkey Behavioral and Neuroendocrine Puberty

11:30-12:00 Susan L. Andersen and Martin H. Teicher
Pubertal Changes in Neurotransmitter Systems: Implications for Human Puberty and Psychopathology

12:00-12:15 Business Meeting

12:00-1:00 *Lunch*

Afternoon

1:00-3:30 **Poster Session 1**

- 3:30-6:00 **Symposium: “Social Influences on Hormones and Health” Co-Chairs: Courtney DeVries and Randy Nelson, Ohio State University**
- 3:30-4:00 Megan R. Gunnar
Early Experience and Activity of the HPA Axis in Children
- 4:00-4:30 Bruce S. McEwen
Protective and Damaging Effects of Stress Mediators: Allostasis and Allostatic Overload
- 4:30-5:00 Christopher L. Coe
Prenatal Conditions Influence Physiological Set Points in the Developing Infant
- 5:00-5:30 A. Courtney DeVries
Social Modulation of Stress Responses and Disease Outcomes
- 5:30-6:00 S. L. Klein, E. R. Hinson, & G. E. Glass
Social Behavior and Hantavirus Infection in Norway Rats: Cause or Effect?

Evening

- 6:30-8:30 **Workshop: “Strategies for Minority Recruitment in Behavioral Neuroendocrinology”, Co-Chairs: Kiran Soma, UCLA and Teresa Horton, Northwestern University**
(Pizza Provided)

FRIDAY, JUNE 27- DAY 3

Morning

- 8:30-9:30 **Keynote Address: Dr. Michael Meaney , McGill University, Title: “Causes and Consequences of Individual Differences in Maternal Behavior”**
- 9:30-9:50 *coffee break*
- 9:50-12:00 **Symposium: “Vasopressin: Contemporary Thoughts on the Behavioral Role of an Ancient Peptide”(followed by panel discussion); Chair: Scott Wersinger, National Institute of Health**
- 10:00-10:30 H.E. Albers*
Vasopressin (AVP)/ Oxytocin (OXT) and the Central Regulation of Social Behavior
- 10:30-10:45 Semsar, K*. and Godwin, J.
The Role of Arginine Vasotocin in the Control of Social Status in the Bluehead Wrasse, a Sex-Changing Fish
- 10:45-11:15 Scott R. Wersinger* and W. Scott Young III

Altered Social Motivation in Male Mice Lacking the Vasopressin 1B Receptor Gene

11:15-11:30 Emma Coddington*, Christine Lewis, Jim Rose, and Frank L. Moore
Sex, Stress and Drugs: Interactions between Vasotocin, Corticosteroids and Cannabinoids

11:30-12:00 Panel Discussion

12:00-1:00 *Lunch*

Afternoon

1:15-3:35 **Symposium: “The Cincinnati Zoo: Endocrinology in Unusual Settings” Co-Chairs: Bill Truitt and Juan Dominguez, University of Cincinnati.**

1:15-1:45 Cheryl S. Asa, Joan E. Bauman, and Tim Coonan
Evidence for Induced Ovulation in Channel Island Gray Foxes (*Urocyon littoralis*)

1:45-2:15 Nadja Wielebnowski and Janine L. Brown
Applying Noninvasive Hormone Monitoring and Behavioral Studies to Address Management Issues in Threatened and Endangered Felids

2:15-2:45 A. Dixson, N. Povich, and M. Anderson.
Reproduction and Behavior in a Herd of Javan Banteng (*Bos javanicus javanicus*) at the San Diego Wild Animal Park.

2:45-3:15 Terri L. Roth
Breeding the Sumatran Rhinoceros (*Dicerorhinus sumatrensis*) in Captivity: Behavioral Challenges, Hormonal Solutions

3:15-5:00 **Zoo Exhibits**

5:00-7:30 **Poster Session 2**

Evening: *Nothing Scheduled*

Saturday, June 28 Day 4

Morning

8:30-9:40 **Invited Presidential Address: Dr. Andrew Bass, Cornell University, “Evolutionarily labile patterning of brain and social behavior: A tale of two males”**

9:40-10:00 *coffee break*

10:00-12:00 **Symposium: “Behavioral Neuroendocrinology of Maternal Effects: Mechanisms and Functions” Co-Chairs: Hubert Schwabl, Washington State University and Norbert Sachser, University of Muenster, Germany**

10:00-10:30 Hubert Schwabl, Rosemary Strasser & Amy Poopatanapong

Yolk Steroids, Behavior, and Fitness in Birds

10:30-11:00 Ton Groothuis, Corinne Eising, Nikolaus von Engelhardt & Wendt M_ller
Maternal Modulation of Early Exposure to Androgens in Avian Species and its
Consequences for Individual Differentiation

11:00-11:30 Keith W. Sockman
Hormonal Orchestration of the Sibling Competitive Hierarchy in Birds

11:30-12:00 Norbert Sachser & Sylvia Kaiser
Social Environment, Stress, and Offspring Behavioral Differentiation in Guinea
Pigs

12:00-1:00 *Lunch*

Afternoon

1:00-3:30 **Poster Session 3**

3:30-5:50 **Symposium: “Nuclear Receptor Coactivator Function in the CNS and
Behavior”**; Co-Chairs Marc Tetel, Skidmore College and Cynthia Jordan,
Michigan State University

3:40-4:10 Brian Rowan, Yatrik Shah, Abeer El-Gharbawy, Mohamed Desouki, Sharif
Kershah, Mariam Al-Dhaheiri, Kristen Koterba
Hierarchies of Steroid Receptor Regulation Through Coregulators and Signalling
Pathway Crosstalk

4:10-4:40 Anthony P. Auger*
The Role of Nuclear Receptor Co-Activators in Developing Rat Brain.

4:40-5:00 T. D. Charlier*, C. J. Auger, J. Balthazart, G. F. Ball
Modulation of Steroid Activity by Transcription Coactivators in Songbirds

5:00-5:20 Erin O’Bryant* and Cynthia L. Jordan
Nuclear Receptor Coactivators in an Androgen-Responsive Neuromuscular
System

5:20-5:50 M. J. Tetel*, H. A. Molenda, C. P. Kilts, S. D. Murphy, R. L. Allen
Nuclear Receptor Coactivators Modulate Hormone-Dependent Female Sexual
Behavior and Neural Gene Expression in Rats

6:00 **Conclusion of Scientific Program**

7:30 *Banquet*

Poster Session 1

1. Rudick, C.N., and Woolley, C.S.
ESTROGEN TREATMENT ELIMINATES THE SENSITIVITY OF HIPPOCAMPAL GABAergic SYNAPSES TO MUSCARINIC RECEPTOR MODULATION
2. Todd, B.J., Amateau S.K., and McCarthy, M.M.
PROSTAGLANDIN-E₂ MEDIATES ESTRADIOL EFFECTS ON SYNAPTIC PLASTICITY BUT NOT CELL SURVIVAL
3. Schwarz, J.M., Todd, B.J., McCarthy, M.M.
LOOKING AT GLUTAMATE TO UNDERSTAND THE ROLE OF ESTRADIOL ON DENDRITIC SPINE GROWTH IN THE DEVELOPING HYPOTHALAMUS
4. Hilton, G.D., Nunez, J.L., McCarthy, M.M.
BRAIN DAMAGE IN THE NEONATE: SEX DIFFERENCE IN RESPONSE TO KAINIC ACID
5. Kippin, T.E., Cain, S.W., Masum, Z., and Ralph, M.R.
PRENATAL STRESS PERMANENTLY DECREASES FOREBRAIN NEURAL STEM CELLS IN THE HAMSTER
6. Fowler, C.D., and Wang, Z.
ESTROGEN DIFFERENTIALLY REGULATES CELL PROLIFERATION IN THE BRAIN OF FEMALE PRAIRIE AND MEADOW VOLES
7. Peterson, R.S., Fernando, G., Schlinger, B.A., and Lee, D.W.
INJURY-INDUCED AROMATASE EXPRESSION AND CYTOGENESIS IN THE ADULT ZEBRA FINCH BRAIN: EFFECTS OF OVARECTOMY AND AROMATASE INHIBITION.
8. Amory, E.A., Brunjes, P.C., and Rissman, E.F.
ESTRADIOL TREATMENT DOES NOT AFFECT CELL PROLIFERATION IN THE DENTATE GYRUS OF ADULT FEMALE MICE
9. Sandstrom, N.J., and O'Brien, J.L.
ESTRADIOL PROTECTS AGAINST ISCHEMIA INDUCED DEFICITS IN WATER MAZE PERFORMANCE OF MALE RATS
10. Franklin, T., and Perrot-Sinal, T.

**OVARIAN HORMONES AND ACUTE RESTRAINT STRESS INTERACT TO
MODULATE BDNF PROTEIN LEVELS IN RAT BRAIN**

11. Lord, M.A. and Godwin, J.
**BRAIN-DERIVED NEUROTROPHIC FACTOR EXPRESSION IN THE BRAIN OF THE
BLUEHEAD WRASSE**
12. Schulz, K.M., Zehr, J.L., Osetek, A.J., and Sisk, C.L.
**GONADAL HORMONES DURING PUBERTY MAY CONTRIBUTE TO THE
DEFEMINIZATION OF LORDOSIS BEHAVIOR IN MALE SYRIAN HAMSTERS**
13. Lee, T.M., Aizenberg, D., Karsch, F.J., Foster, D.L., and Padmanabhan, V.
**EXCESS PRENATAL TESTOSTERONE ALTERS REPRODUCTIVE BEHAVIOR OF
ADOLESCENT MALE AND FEMALE SHEEP**
14. von Esenwein, S. A
**NEONATAL EXPOSURE TO ANDROGENS ORGANIZES MASCULINIZED
PARTNER PREFERENCE IN RATS.**
15. Lacreuse, A., Goh, M.Y., Hall, M.H., Volk, A.M., Chhabra, R.K., and Herndon, J.G.
**SEX AND AGE DIFFERENCES IN FINE MOTOR FUNCTION IN THE RHESUS
MONKEY**
16. Kim, A.J., Bales, K.L., and Carter, C.S.
**PUP EXPOSURE INFLUENCES THE DEVELOPMENT OF A PARTNER
PREFERENCE IN PRAIRIE VOLES**
17. Taravosh-Lahn, K., David, J.T., and Delville, Y.
**PERINATAL STRESS AND THE DEVELOPMENT OF AGONISTIC BEHAVIOR IN
GOLDEN HAMSTERS**
18. Morris, J.A., Jordan, C.L., Breedlove, S.M.
MEDIAL AMYGDALA VOLUME IS SEXUALLY DIMORPHIC IN MICE
19. DeMarchi, G.A., and Krohmer, R.W.
**VOLUME OF SEXUALLY DIMORPHIC NUCLEI AND CELLULAR DENSITY IN THE
BRAINS OF MALE, FEMALE AND SHE-MALE RED-SIDED GARTER SNAKES**
20. Pietrucha, J. and Krohmer, R.W.
**DISTRIBUTION OF DOPAMINE IMMUNOREACTIVE CELLS IN THE BRAIN OF THE
RED-SIDED GARTER SNAKE**
21. Coulter-Thurley, R., Lehmann, M.L., and Erskine, M.S.
**VARIATION IN THE TIMING OF CHEMICAL STIMULATION OF THE MEDIAL
AMYGDALA (MEAPD) AND ITS EFFECT UPON INDUCTION OF ESTROUS
ACYCLICITY IN THE FEMALE RAT**
22. Yang, J., Coulter-Thurley, R., Lehmann, M.L., and Erskine, M.S.
**LATERALIZED NEURAL ACTIVATION IN AMYGDALA OF PACED VS. NON-
PACED FEMALE RATS**
23. Hammerbeck, A., Adamson, L.A., and Gullledge, C.C.

FOSB AND μ -OPIOID RECEPTORS IN THE MPOA OF POSTPARTUM RATS

24. Lehmann, M.L., and Erskine, M.S.
SYNERGISTIC ACTIONS BETWEEN MATING AND CHEMICAL STIMULATION OF THE MEDIAL AMYGDALA (MEApd): TOWARDS THE FORMATION OF A NEUROENDOCRINE MEMORY
25. Cruz-Barrera, R., and Hull, E.
(S)-3,5-DHPG, A METABOTROPIC GLUTAMATE RECEPTOR 1 AGONIST, ENHANCES SEXUAL BEHAVIOR IN THE MALE RAT
26. Sato, S., Cedeno, C.D., Xu, Z., and Hull, E.M.
EFFECTS OF cGMP MANIPULATION ON MPOA DOPAMINE LEVELS AND COPULATION IN MALE RATS
27. Smith, D.J., Cedeno, C., Loewke, A.A., Sato, S., and Hull, E.M.
8-OH-DPAT IN THE ANTERIOR LATERAL HYPOTHALAMUS REVERSES SEXUAL SATIETY IN MALE RATS
28. Xu, Z., and Hull, E.M.
TONIC INHIBITION BY THE MPOA OF THE MESOACCUMBENS DOPAMINE TRACT BEFORE AND DURING MALE SEXUAL BEHAVIOR
29. Lagoda, G., Vigdorichik, A., Hull, E.
MICROINJECTION OF A NOS INHIBITOR INHIBITS COPULATION IN NAÏVE AND SEXUALLY EXPERIENCED MALE RATS
30. Schmich, J.M., Loewke, A.A., and Hull, E.M.
L-TRANS-2, 4-PDC, A GLUTAMATE REUPTAKE INHIBITOR, MICROINJECTED INTO THE MPOA, MAY ENHANCE MALE RAT SEX BEHAVIOR
31. Vigdorichik, A., Lagoda, G., and Hull, E.M.
A GLUTAMATE NMDA RECEPTOR ANTAGONIST, MICROINJECTED INTO THE MPOA IMPAIRS MALE SEXUAL BEHAVIOR
32. Kabelik, D., Weiss, S.L., and Moore, M.C.
SEASONAL PLASTICITY IN STEROID HORMONE LEVELS, BRAIN MORPHOLOGY, AND AGGRESSIVE BEHAVIOR OF THE TREE LIZARD, *UROSAURUS ORNATUS*
33. Farrell W.J., and Wilczynski, W.
AGGRESSIVE EXPERIENCE INFLUENCES PLACE PREFERENCE IN GREEN ANOLE LIZARDS (*ANOLIS CAROLINENSIS*)
34. Hattori, T., and Wilczynski, W.
THE EFFECT OF SOCIAL EXPERIENCE ON ESTABLISHMENT OF DOMINANCE IN MALE GREEN ANOLE LIZARDS (*Anolis carolinensis*)
35. Yang, E.J. and Wilczynski, W.
CHANGES IN PLASMA TESTOSTERONE DURING AGGRESSIVE EXPERIENCE ARE IMPORTANT FOR EXPERIENCE-DEPENDENT BEHAVIORAL PLASTICITY
36. Cooper, M.A., Karom, M., Huhman, K.L., and Albers, H.E.

SOCIAL DEFEAT AND VASOPRESSIN (V1A) RECEPTORS IN MALE SYRIAN HAMSTERS

- 37a. Hazelton J.L., Cushing B.S., Carter C.S., Hoffman G.E., Ottinger M.A.
EXPRESSION OF CFOS FOLLOWING COHABITATION IN THE PRAIRIE VOLE (*Microtus ochrogaster*).
37. Davis, E.S., and Marler, C.A.
C-FOS CHANGES FOLLOWING AN AGGRESSIVE ENCOUNTER IN FEMALE CALIFORNIA MICE: A SYNTHESIS OF BEHAVIOR, HORMONE CHANGES AND NEURAL ACTIVITY
38. Oliveira, R.F., Silva, A., Hirschenhauser, K., and Canário, A.V.M.
EXPERIENTIAL EFFECTS AND ANDROGENS IN A CICHLID FISH
39. Earley, R.L., Felton, K., Netherton, J.D., Aseem, O., Edwards, J., Blumer, L., and Grober, M.S.
AN INTEGRATIVE ANALYSIS OF CHRONIC SOCIAL SUBORDINATION IN CONVICT CICHLIDS (*ARCHOCENTRUS NIGROFASCIATUM*)
40. Lutterschmidt, D.I. and Mason, R.T.
MELATONIN TRANSDUCES ENVIRONMENTAL TEMPERATURES AND INITIATES MALE COURTSHIP BEHAVIOR IN RED-SIDED GARTER SNAKES
41. Greives, T.J., Casto, J.M., and Ketterson, E.D.
BEHAVIORAL AND PHYSIOLOGICAL CONSEQUENCES OF BIASED SEX RATIOS IN DARK-EYED JUNCOS
42. Choleris, E., Pfaff, D.W., and Ogawa, S.
SIMILAR IMPAIRMENTS OF SOCIAL DISCRIMINATION IN ESTROGEN RECEPTOR ALPHA, BETA AND OXYTOCIN KNOCKOUT FEMALE MICE: A DETAILED BEHAVIORAL ANALYSIS
43. Aragona, B.J., Liu, Y., Yu, Y.J., Damron, A., Perlman, G., and Wang, Z.
OPPOSITE MODULATION OF SOCIAL ATTACHMENT BY D1- AND D2-TYPE DOPAMINE RECEPTOR ACTIVATION IN NUCLEUS ACCUMBENS SHELL
44. Kikusui, T., Nakamura, K., Isaka, Y., Takeuchi, Y., and Mori, Y.
MODIFICATION OF SOCIAL BEHAVIORS FOLLOWING PRECOCIOUS WEANING IN MICE
45. Edwards, D.A., and Waters, J.
WOMEN'S INTERCOLLEGIATE VOLLEYBALL: SALIVA TESTOSTERONE AND CORTISOL ARE ELEVATED DURING COMPETITION AND BEFORE-MATCH TESTOSTERONE IS RELATED TO TEAMMATE-RATINGS OF PLAYING ABILITY
46. Peters, K.D., and Wood, R.I.
ANDROGEN OVERDOSE: BEHAVIORAL AND PHYSIOLOGICAL EFFECTS OF ACUTE ADMINISTRATION
47. Bardi, M., Shimizu, K., Barrett, G.M., Huffman, M.A., Borgognini-Tarli, S.M

**DIFFERENCES IN THE SOCIAL BEHAVIOR AND ENDOCRINE PROFILES
ACROSS PARTURITION BETWEEN RHESUS AND JAPANESE MACAQUES**

48. Remage-Healey, L., and Bass, A.H.
**STEROID HORMONES EXERT RAPID, SEX-SPECIFIC CHANGES IN VOCAL
COMMUNICATION SIGNALS IN GULF TOADFISH, *OPSANUS BETA***
49. Forlano, P.M., Sisneros, J.A., Knapp, R., and Bass, A.H.
**REPRODUCTIVE PERIODICITY OF GONADAL STEROID HORMONE LEVELS IN
THE VOCAL PLAINFIN MIDSHIPMAN, *PORICHTHYS NOTATUS***
50. London, S.E. and Schlinger, B.A.
**EVIDENCE FOR STERIOD SYNTHESIS IN SONGBIRD BRAIN: CLONING AND
EXPRESSION OF 3 α -HSD**
51. Kondo, Y., Xiao, K., and Sakuma, Y.
**ODOR PREFERENCE IN MALE AND FEMALE RATS: EFFECTS OF CASTRATION
AND GONADAL STEROIDS**
52. Øverli, Ø., Pottinger, T.G., and Winberg, S.
**BEHAVIORAL CORRELATES OF STRESS RESPONSIVENESS IN RAINBOW
TROUT**
53. Nunes, S., Curtin, M., and Faustino, J.
**DEVELOPMENT OF THE HORMONAL STRESS RESPONSE IN JUVENILE
BELDING'S GROUND SQUIRRELS**
54. Bilbo, S.D. and Nelson, R.J.
**PHOTOPERIOD AND EXERCISE AFFECT METABOLISM AND DELAYED TYPE
HYPERSENSITIVITY IN SIBERIAN HAMSTERS**
55. Bowers, S.L., Bilbo, S.D., Dhabhar, F.S. and Nelson, R.J.
**DELAYED-TYPE-HYPERSENSITIVITY AND CORTICOSTERONE RESPONSES TO
VARIOUS STRESSORS IN MICE**
56. Solomon, M.B., Askew, J.A., Cooper, M.A., Huhman, K.L.
**BLUNTED STRESS RESPONSE IN PREVIOUSLY DEFEATED FEMALE
HAMSTERS**
57. Kinsey, S.G., Prendergast, B.J., Nelson, R.J.
**INTERACTIONS AMONG GONADAL HORMONES, STRESS, AND WOUND
HEALING IN SIBERIAN HAMSTERS**
- 58a. Walf, A.A., and Frye, C.A.
**INHIBITING INTRACELLULAR ESTROGEN RECEPTORS IN THE HIPPOCAMPUS,
BUT NOT THE AMYGDALA, OF PROESTROUS RATS ATTENUATES ANXIETY
AND DEPRESSIVE BEHAVIOR.**
58. Huber, S., Palme, R., and Arnold, W.
**ADRENOCORTICAL RESPONSE OF RED DEER (*Cervus elaphus*) TO HUMAN
DISTURBANCES**
59. Rubinow, M.J., Beverly, J.L., Arseneau, L.M., and Juraska, J.M.

ESTROUS CYCLE INTERACTS WITH STRESS IN AFFECTING WATER MAZE PERFORMANCE

60. Woodson, J.C., Park, C.R., Campbell, A.M., Muñoz, C., and Diamond, D.M.
DISSOCIATION BETWEEN THE EFFECTS OF STRESS VERSUS ELEVATED GLUCOCORTICOID LEVELS ON SPATIAL MEMORY IN RATS
61. Cortez, L.G., Smith, J.U.A., and Freeman, L.M.
EFFECTS OF ADULT TESTOSTERONE TREATMENT ON MORRIS WATER MAZE PERFORMANCE IN THE MUSK SHREW
62. Yamada, K., Kondo, Y., Ito, M., Shimizu, N., and Sakuma, Y.
OLFACTORY INPUT IS REQUIRED IN THE ESTABLISHMENT OF PLACE PREFERENCE ASSOCIATED WITH COITAL STIMULI
63. Wallace, M., Cordova, M., Jacome, L., Flora, K., and Luine, V.
CASTRATION AND OVARIECTOMY CAUSE DIFFERENTIAL IMPAIRMENTS OF VISUAL AND PLACE MEMORY PERFORMANCE IN RATS
64. Edinger, K., and Frye, C.A.
INFUSIONS OF TESTOSTERONE OR ITS 5 α -REDUCED METABOLITES TO THE DORSAL HIPPOCAMPUS DECREASE ANXIETY, NOCICEPTIVE, AND FEAR BEHAVIOR AND ENHANCE SPATIAL LEARNING
65. Rhodes, M.E., Sumida, K., and Frye, C.A.
ESTROGEN CAN CONDITION A PLACE PREFERENCE IN FEMALE RATS
66. Sumida, K., Rhodes, M.E., and Frye, C.A.
BLOCKADE OF INTRACELLULAR ANDROGEN RECEPTORS DOES NOT ATTENUATE 3 α -DIOL-INDUCED CONDITIONED PLACE PREFERENCE
67. Nofrey, B., Ben-Shahar, O., Giannotti, K.A., and Brake, W.G.
ESTROGEN DECREASES ATTENTION DURING A LATENT INHIBITION TASK IN OVARIECTOMIZED RATS
68. Markham, J. A., Mohiuddin, R. F., and Juraska, J. M.
SEX DIFFERENCES IN RAT SOCIAL RECOGNITION MEMORY DURING YOUNG ADULTHOOD AND AGING
69. Ripa, C.P.L.; Johannsen, T.H.; Mortensen, E.L.; Müller, J.
GENERAL COGNITIVE FUNCTIONS, MENTAL ROTATIONS ABILITY, AND HANDEDNESS IN ADULT FEMALES WITH CONGENITAL ADRENAL HYPERPLASIA

POSTER SESSION 2

70. Godwin, J. and Semsar, K.
ARGININE VASOTOCIN RECEPTOR DISTRIBUTION IN THE BRAIN OF THE BLUEHEAD WRASSE, *Thalassoma bifasciatum*
71. Sasso, D.M., Mason, R.T., and Krohmer, R.W.

IDENTIFICATION OF VASOTOCIN IMMUNOREACTIVITY IN THE BRAIN OF THE RED-SIDED GARTER SNAKE DURING THE ACTIVE SEASON AND HIBERNATION

72. Lewis, C.M., and Rose, J.D.
SYNERGISTIC RAPID MEDULLARY NEURONAL ACTIONS OF VASOTOCIN AND CORTICOSTERONE POTENTIATE CLASPING IN ROUGHSKIN NEWTS
73. Thompson, R.R. and Walton, J.
VASOTOCIN-LIKE IMMUNOREACTIVITY IN GOLDFISH BRAINS: A NOVEL CELL GROUP IN THE TELEENCEPHALON AND A TERMINAL PLEXUS IN THE DORSAL MOTOR VAGUS NUCLEUS
74. Lim, M.M., Sharer, C.A., Olazabal, D.E., Ren, X., Terwilliger, E.F., Young, L.J.
BEHAVIORAL EFFECTS OF EXPRESSING A DOMINANT NEGATIVE VASOPRESSIN V1A RECEPTOR VIRAL VECTOR IN THE VOLE VENTRAL PALLIDUM
75. Perry, A.N., Kramer, K.M., Withuhn, T.F., Carter, C.S., Cushing, B.S.
NEONATAL OXYTOCIN DECREASES BASAL CORTICOSTERONE IN ADULT FEMALE RATS
76. Caldwell, H.K., Smith, D.A., and Albers, H.E.
ARGININE VASOPRESSIN INDUCED FLANK MARKING IS NOT TESTOSTERONE DEPENDENT IN SHORT PHOTOPERIOD
77. Toufexis, D.J., Walker, D.L., and Davis, M.
INVOLVEMENT OF PLASMA TESTOSTERONE IN MODULATING LIGHT-ENHANCED STARTLE IN MALE RATS: POSSIBLE ROLE OF ARGININE VASOPRESSIN
78. Ostrander, M.M., Tamashiro, K.L.K., Nguyen, M.M.N., Sakai, R.R., Herman, J.P., and Richtand, N.M.
PSYCHOSOCIAL STRESS AND LOCOMOTOR RESPONSE TO AMPHETAMINE
79. Westenbroek, C., Den Boer, J.A., Gerrits, M., and Ter Horst, G.J.
CHRONIC STRESS COPING IN ISOLATED AND SOCIALLY HOUSED MALE AND FEMALE RATS
- 80a. Mohawk, J.A., Foye, C.T., and Lee, T.M.
STRESS REACTIVITY IS CORRELATED WITH JETLAG RECOVERY IN FEMALE OCTODON DEGUS.
80. Tamashiro, K.L.K., Nguyen, M.M.N., Ma, L.Y., D'Alessio, D.A., Woods, S.C., and Sakai, R.R.
REPEATED CYCLES OF SOCIAL STRESS AND RECOVERY: CHANGES IN BODY COMPOSITION
81. Cavigelli, S.A., and McClintock, M.K.
THREAT ASSESSMENT AND CORTICOSTERONE DYNAMICS PREDICT EARLY DEATH
82. Wawrzycki, J., and Frye, C.A.

**EFFECT OF PRENATAL STRESS AND GONADAL HORMONE CONDITION ON
DEPRESSIVE BEHAVIOR OF MALE AND FEMALE RATS**

83. Figueiredo, H.F., Dolgas, C.M., and Herman, J.P.
**DISSOCIATION OF ACTH AND CORTICOSTERONE RESPONSES TO STRESS IN
FEMALE RATS TREATED WITH ESTROGEN**
84. Gasser, P.J., and Orchinik, M.
**CORTICOSTERONE AND VASOPRESSIN MODULATE PROTEIN KINASE C
SIGNALING IN THE AMPHIBIAN BRAIN**
85. Bhatt, N., Tran, T., Tomaszewski, J., Pfaff, D., and Vasudevan, N.
**ESTROGEN RECEPTOR MEDIATED TRANSCRIPTION REQUIRES THE
ACTIVATION OF MULTIPLE KINASE PATHWAYS IN NEUROBLASTOMA CELLS**
86. Lee, B.J., Calizo, L.H., and Flanagan-Cato, L.M.
**TRIPLE LABELING FOR PROGRESTIN RECEPTOR (PR), RETROGRADE
TRACING FROM THE PERIAQUEDUCTAL GRAY (PAG), AND MATING-INDUCED
FOS IN THE VENTROLATERAL REGION OF THE HYPOTHALAMIC
VENTROMEDIAL NUCLEUS (VLVMH) OF THE FEMALE RAT**
87. Kritzer, M.F.
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