

Society for Behavioral Neuroendocrinology

Annual Meeting

University of Virginia, Charlottesville, VA

June 27 - June 29, 1999

SCIENTIFIC PROGRAM

SUNDAY JUNE 27th

Sunday Morning:

8:15 Brief Welcome

Environment and Hormone-Behavior Interactions

Chair: John C. Wingfield

8:30 **David Crews (University of Texas)** *Endocrine disruptors: present issues, future problems.*

9:00 **Hubert Schwabl (Washington State University)** *Maternal steroids in the avian egg*

9:30 **Cathy Marler (University of Wisconsin)** *Interactions between social environment and arginine vasopressin and arginine vasotocin.*

10:00 **Mike Moore (Arizona State University)** *Evolution of the neuroendocrine basis of reproductive tactics.*

10:30 *Coffee Break*

11:00 **Keynote Speaker: Sergio Ojeda (Oregon Health Sciences University)** *Glia-to-neuron signaling contributes to the neuroendocrine control of mammalian puberty.*

12:00-1:30pm Lunch (Student/Faculty lunches)

Sunday Afternoon:

Hypothalamic-Pituitary-Adrenal Axis and Social Behavior in Mammals

Chair: Gary Kraemer

1:30 **Cheryl McCormick (Bates College)** *Hormonal and maternal factors in the sexual differentiation and function of the Hypothalamic-Pituitary-Adrenal axis.*

2:00 **Courtney DeVries (Johns Hopkins)** *Hypothalamic-Pituitary-Adrenal axis and social bonding in prairie voles.*

2:30 *Coffee Break*

3:00 **David Lyons (Stanford University)** *Postnatal experiences, genetic risks, and social stress induced hypercortisolism in squirrel monkeys.*

3:30 **Alison Fleming (University of Toronto)** *Glucocorticoids and maternal responsiveness in human mothers.*

4-7pm Posters

7:30-11pm Student's Career Workshop (includes dinner for students and post-docs only)

MONDAY JUNE 28th

Monday Morning:

Presidential Symposium: Hormonal and Non-hormonal Mechanisms of Sexual Differentiation of Brain and Behavior

Chair: Art Arnold

8:30 Art Arnold (UCLA) Introduction: *Hormonal and non-hormonal mechanisms of zebra finch sexual differentiation*

8:50 Marilyn Renfree (University of Melbourne) *Extra-gonadal control of sexual differentiation in a marsupial.*

9:20 Ingrid Reisert (University of Ulm) *Sex, hormones, and neuronal differentiation.*

9:50 Geert De Vries (University of Massachusetts) *Mechanism and functional significance of sexual differentiation of neuropeptide systems*

10:10 Emilie Rissman (University of Virginia) *Hormonal and genetic determination of mouse masculine sexual behavior*

10:30 Coffee Break

11:00 Special Address: Irving Zucker (University of California, Berkeley) *Human and hamster seasonal reproductive rhythms: evolution, culture and physiology.*

12:00-1:30pm Lunch (Student/Faculty lunches)

Monday Afternoon:

Seasonal Changes in the Brain

Chair: Gregory Ball

1:30 Gregory Ball (Johns Hopkins University) *Seasonal changes in brain and behavior in songbirds: steroid-dependent and -independent effects.*

2:00 Eric Bittman (University of Massachusetts) *The seasonally plastic brain: effects of photoperiod and androgens on neuroendocrine structure and function in hamsters.*

2:30 Coffee Break

3:00 Marc Breedlove (University of California, Berkeley) *Seasonality in a neuromuscular system.*

3:30 Tom Smulders (Wake Forest University) *Seasonal variation in the brain of a food hoarding bird, the black-capped chickadee.*

4-7pm Posters

7-8:30pm Grants Workshop

TUESDAY JUNE 29th

Tuesday Morning:

Neural Substrates of Behavior: The Use of Molecular Neuroanatomy to Map Functional Neurocircuits

Chairs: Lique Coolen and Michael Numan

- 8:30 Michael Numan (Boston College)** *Fos genes: A window to the neural circuitry and molecular neurobiology of maternal behavior.*
- 9:00 Alan Watts (University of Southern California)** *Feast or Famine? Characterizing a potential hypothalamic-brainstem network that can stimulate, inhibit, and disinhibit eating.*
- 9:30 Paul Micevych (UCLA)** *Regulation of sexual receptivity: Differential actions of estrogen and progesterone on the expression and activation of opioid and nociceptin receptors in the hypothalamus.*
- 10:00 Lique Coolen (University of Cincinnati)** *Pathways that relay sensory stimuli mediating sexual behavior revealed by combined tract tracing and Fos-studies*

10:30 *Coffee Break*

11:00 Special Address: Richard Green (UCLA and Imperial College) *Transsexualism: A Model for Sex Differences, Sexual Orientation, Neither or Both?*

12:00-1:30pm Lunch
(12:30-1:15 Business meeting)

Tuesday Afternoon:

Estrogen & Aging: Is it Beneficial and How?

Chairs: Nancy L. Desmond and Margaret M. McCarthy

- 1:30 David J. Stone (Harvard University)** *The effects of estrogen and aging on gene expression and synaptic sprouting.*
- 2:00 James W. Simpkins (University of Florida)** *Estrogens and non-feminizing phenolic A ring estratrienes are potent neuroprotective compounds.*

2:30 *Coffee Break*

- 3:00 Gillian Einstein (Duke University)** *Hippocampal granule cells are sexually dimorphic in their response to estradiol.*
- 3:30 Susan M. Resnick (NIA/NIH)** *Estrogen replacement therapy influences cognitive performance and cerebral blood flow in aging women.*

4-7pm-Posters

8-12 BANQUET