

**JEFFREY D. BLAUSTEIN
CURRICULUM VITAE**

Addresses:

Work:

Center for Neuroendocrine Studies
Neuroscience and Behavior Program
and Psychology Department
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Education and Experience:

2004 -

Division Head, Behavioral Neuroscience, Psychology Department, University of Massachusetts, Amherst

1997 – 2001

Founding Director, Center for Neuroendocrine Studies, University of Massachusetts – Amherst

1986-present

Professor, University of Massachusetts, Psychology Department, Amherst, MA

Adjunct Professor, Biology Department (1985 – 1997)

Member, Neuroscience and Behavior Program (1986 – present)

Member, Molecular and Cellular Biology Program (1989 - present)

Member, Organismic and Evolutionary Biology Program (1992 - present)

1988-1990

Division Head of Biopsychology, University of Massachusetts, Psychology Department, Amherst, MA

1983-1986

Associate Professor, University of Massachusetts, Psychology Department, Amherst, MA

1979-1983

Associate Professor; Assistant Professor, Iowa State University; Zoology Department, Ames, IA

Member, Molecular, Cellular and Developmental Biology Program

1977-1979

USPHS Postdoctoral Research Fellow, Rutgers University; Institute of Animal Behavior; Newark, NJ

1977

Ph.D., University of Massachusetts - Amherst; Psychology Department

1975

M.S., University of Massachusetts - Amherst; Psychology Department

1973

B.S., (magna cum laude) University of Massachusetts - Amherst

Honors:

USPHS National Research Service Award, 1977 - 1979.

125-Alumni-to-Watch, University of Massachusetts, 1988.

Research Career Development Award, National Institute of Neurological Diseases and Stroke, 1985 - 1990.

Research Scientist Development Award, National Institute of Mental Health, 1990 - 1995.

Senior Scientist Award, National Institute of Mental Health, 1997 - 2002.

Teaching Experience:

Behavioral Neuroendocrinology

Proseminar in Neuroscience and Behavior

Hormones and Behavior Seminars

Female Reproductive Component of Neuroscience and Behavior Program core course.

Scientific Ethics in Neuroscience and Behavior Program Proseminar

Neuroendocrinology and Reproductive Endocrinology Sections of Vertebrate Physiology

Advanced Endocrinology

Neuroendocrinology

Physiological Psychology Laboratory

Psychology as a Natural Science

Junior Writing Course

Faculty member in Summer Course in Behavioral Neuroendocrinology, Michigan State University, 2005, 2006, 2007

Previous Doctoral and Postdoctoral Trainees:

Theodore Brown, *PhD*, 1985, current position: Associate Professor, Division of Reproductive Science, Toronto General Hospital, University of Toronto, Toronto, Ontario.

Yvon Delville, *PhD*, 1992, current position: Associate Professor, Department of Psychology, University of Texas, Austin, TX.

Kirsten Nielsen Ricciardi, *PhD*, 1993, most recent known position: postdoc, Department of Physiology and Biophysics, University of Washington, Seattle, WA

Marc Tetel, *PhD*, 1993, current position: Assistant Professor, Biology Department, Wellesley College, Wellesley, MA

Joanne Turcotte, *PhD*, 1996, most recent position: Research Assistant Professor, Psychology Department and Center for Neuroendocrine Studies, University of Massachusetts, Amherst, MA.

Deborah Olster, *postdoctoral researcher*, 1986 - 1990, current position: Deputy Director, Office of Behavioral and Social Sciences Research, National Institutes of Health.

John Meredith, *postdoctoral researcher*, 1994 - 1997, current position: Senior Scientist/Study Director, Schering-Plough Research Institute, Lafayette, NJ.

Anthony Auger, *PhD*, 1998, current position: Assistant Professor, Psychology Department, University of Wisconsin, Madison, WI.

Christopher Moffatt, *postdoctoral researcher*, 1994 - 1998, current position: Assistant Professor, Department of Biology, San Francisco State University, San Francisco, CA.

Laura Lubbers, *postdoctoral researcher*, 1999, current position: Senior Research Biologist, Merck Pharmaceuticals, Rahway, NJ.

Béatrice Gréco, *postdoctoral researcher*, 1997-2001, current position: Senior Scientist, Serono Pharmaceuticals, Italy.

Amy Bennett, *PhD*, 2002, current position: Assistant Professor, Concordia College, Ann Arbor, MI.

Meg Blasberg, *postdoctoral researcher*, 2000 - 2002, current position: Assistant Professor, Psychology Department, Wheaton College, Norton, MA.

Sara Farrell, *postdoctoral researcher*, 2004 - 2006, current position: Postdoctoral researcher, Center for Studies in Behavioral Neurobiology, Concordia University, Montreal, Quebec.

R. Charles Lawrence, *postdoctoral researcher*, 2004 - 2006, current position: Postdoctoral researcher, Department of Psychology, University of South Carolina, Columbia, SC.

Undergraduate trainees:

Many former students are currently attending medical school or are doing internships or residencies or are practicing medicine or engaged in other professions all over the country.

Editorships and Editorial Boards:

Editor-in-Chief, *Endocrinology*, 2007 - 2012

Editor, *Endocrinology*, 2002 - 2007

Volume Editor, *Behavioral Neuroendocrinology, Neurochemistry and Molecular Neurobiology* volume of "Handbook of Neurochemistry and Molecular Neurobiology (Abel Lajtha, Ed.)," 2007

Guest Editor, *Symposium: Neurosteroids and Neuroprotection, Sixth International Congress of Neuroendocrinology*, In: *Neuroendocrinology*, 84, 243-279, 2006.

Editorial Board, *Journal of Neuroendocrinology*, 1999 - present

Editorial Board, *Frontiers in Neuroendocrinology*, 2006 - present

Editorial Board, *International Journal of Endocrinology*, 2008 - present

Editorial Board, *Journal of Receptor, Ligand and Channel Research*, 2008 - present

Editorial Board, *Hormones and Behavior*, 1986 - 2007

Editorial Board, *Endocrinology*, 1994-1998; 2001 - 2004

Editorial Board, *Molecular Physiology*, 1980 -1982

Consultant to Federal and Other Agencies:

Environmental Protection Agency (through Eastern Research Group, Inc.), External peer review of EPA's Endocrine Disruptor Screening Program: Pubertal Female Rat Assay, 2007.

Member, External Review Team of Psychology Department, University at Albany, October, 2007.

Ad hoc reviewer, Michael Smith Foundation for Health Research, British Columbia, 2006.

Member, Site Visit Team, National Science Foundation, Center for Behavioral Neuroscience, Atlanta, GA, 2005.

Member, Neurodegeneration, Plasticity and Regeneration study section, National Institutes of Health, 2004, 2005.

Member, Special Emphasis Panel, National Institutes of Health, 2004.

Member, Special Emphasis Panel (IFCN-1) National Institutes of Health, 1998.

Member, Special Emphasis Panel, Sex Differences and Hormonal Influences on Pain, National Institute of Dental Research, 1998.

Member, Psychobiology, Behavior, and Neuroscience Subcommittee; National Institute of Mental Health, 1994-1995, 1998.

Member, Behavioral Neuroscience Subcommittee; National Institute of Mental Health, 1992-1994.

Participant in workshop: Determinants of Sexual and Reproductive Behaviors, National Institute of Mental Health, 1991.

Ad Hoc Member of Behavioral Neurobiology Subcommittee; National Institute of Mental Health, 1990, 1991; *ad hoc* reviewer: 1987, 1988, 1991.

Member of Neurological Sciences *Ad Hoc* Study Section; National Institutes of Health, 1989.

Ad hoc member of Site Visit Team, National Institute of Mental Health, Research Scientist Development Award Study Section, 1988

Ad hoc member of the National Institutes of Health Biopsychology Study Section, 1985, 1988.

Ad hoc member of the National Institutes of Health Biochemical Endocrinology Study Section, 1981.

Ad hoc reviewer for the National Science Foundation.

Other Recent Professional Service:

Member, Advisory Board, Society for Behavioral Neuroendocrinology, 2008 - 2010.
Member, Program Committee, Society for Behavioral Neuroendocrinology, 2007- 2010
Chair, Program Committee, Society for Behavioral Neuroendocrinology, 2007 - 2008.
Executive Committee, Federation of Behavioral, Psychological and Cognitive Science, 2006 - 2008.
Consensus Working Group of the Sex, Gender, and Pain Special Interest Group of the International Association for the Study of Pain, 2006 - 2007.
Member, Publications Ethics Task Force, The Endocrine Society, 2006 - 2007.
Member, Journals Operations Subcommittee, The Endocrine Society, 2006 - 2007.
Member, Journals Management Subcommittee, The Endocrine Society, 2007.
Secretary, Board of Directors, Foundation for Behavioral and Brain Sciences, 2006.
Founding member, Organization for the Study of Sex Differences, 2006.
Finance Committee, Organization for the Study of Sex Differences, 2006 - 2008.
Charter member, Society for Women's Health Research (Washington, DC), ISIS Collaborative Research Network on Sex, Gender, Drugs and the Brain, 2001 – 2007.
Councilor, Federation of Behavioral, Psychological and Cognitive Science, 2003 – 2006.
Treasurer, Society for Behavioral Neuroendocrinology, 2002 – 2004.
Local Organizing Committee, Sixth International Congress of Neuroendocrinology, 2004 – 2006.

Societies:

The Society for Neuroscience, 1977 - *present*
The Endocrine Society, 1981 – *present*
Society for Behavioral Neuroendocrinology, 1995 – *present*
Organization for the Study of Sex Differences, Charter member, 2006 – *present*
International Federation of Neuroendocrinology, 2002 – *present*
International Society for Behavioral Neuroscience, 1993 - *present*
American Association for the Advancement of Science, 1973 - *present*
European Society for Comparative Physiology and Biochemistry, 1982 - 1989

Administrative Experience:

Division Head, Behavioral Neuroscience Division, Psychology Department, 2004 - *present*.
Founding Director, Center for Neuroendocrine Studies, 1997 - 2001
Chair, Research Council of the Faculty Senate, 1998 – 1999
Vice - Chair, Research Council of the Faculty Senate, 1997 – 1998.
Member, Faculty Research Grant Committee, 1995 - 1997
Chair, Research Services Subcommittee of the Research Council, 1996 - 1998.
Chair, Personnel Committee, Psychology Department, 1991 – 1992
Head, Division I, Psychology Department, 1988 – 1990
Graduate Program Director, Neuroscience and Behavior Program, 1987 – 1988

Academic Committees (last 12 years):

Chair, Neuroscience and Behavior Director Search Committee, 2006 - 2007.
Member (alternate), Institutional Animal Care and Use Committee, 2005 – 2006.
Member, Neuroscience and Behavior Program Comprehensive Examination Committee, 2005 - 2006.
Member, Executive Committee, Psychology Department, 2004 – *present*.
Member, Behavioral Neuroscientist Search Committee, 2004 – 2005.

Chair, Committee to evaluate Director of Neuroscience and Behavior Program, 2004
 Member, Campus Safety Committee, 2003 - 2004.
 Member, Integrated Sciences Building Committee, 2003 - 2004.
 Member, University Animal Care Committee, 2004
Member, Diversity Committee, Psychology Department, 2003 - 2004.
Chair, Behavioral Neuroscientist Search Committee, Psychology Department, 2003 - 2004.
Member, UMass Regulatory Compliance Committee, 2002 –2003.
Member, UMass system-wide Neuroscience Coordinating Committee, 2000 – 2002.
Member, Institutional Animal Care and Use Subcommittee on training, 2001.
Member, Vice Chancellor for Research Search Committee, 2000 - 2001.
Member, Commercial Ventures and Intellectual Property Appeals Committee, 2000.
Member, Implementation Committee for Baystate Medical Center/University of Massachusetts Research Institute, 1999-2000.
Member, System-wide committee on indirect cost sharing, 2000.
Chair, Research Council of the Faculty Senate, 1998 – 1999.
Member, *ad hoc* Committee for the Vice Chancellor for Research on Commercial Ventures and Intellectual Property, University of Massachusetts, 1998 - 2000.
Member, Integrated Chemistry-Life Sciences Building Committee, University of Massachusetts, 1998 - 2000.
Member, LAN Committee, Psychology Department, University of Massachusetts, 1998 - 2001.
Member, *ad hoc* Committee on the Organization of the Research Mission, University of Massachusetts, 1998.
Member, Search Committee for the Vice Chancellor for Research, 1997 – 1998.
Member, Faculty Fellowship Committee, University of Massachusetts, 1998.
Vice - Chair, Research Council of the Faculty Senate, 1997 – 1998.
Member, Research Council of the Faculty Senate, 1995 – 1997; *Chair*, 1998 - 1999
Member, Faculty Research Grant Committee, 1995 – 1997
Chair, Research Services Subcommittee of the Research Council, 1996 - 1998.
Member, Faculty Advisory Committee for the Construction of the Animal Care Facility, 1994-1998.
Member, Faculty Advisory Committee for *Synergy*, research magazine produced by the Vice Chancellor for Research, University of Massachusetts, 1996 – 2002
Member, Personnel Committee, Psychology Department, 1994 – 1996
Member, Steering Committee, Neuroscience and Behavior Program, 1995 – 1997
Member, Search Committee for Director of Office of Grants and Contract Administration, 1995-1998
Member, Computer Networking Committee, Psychology Department, 1992 – 1994

Extramural Research Support:

Enduring effects of peripubertal exposure to stressors on reproductive behavior in mice. Society for Women's Health Research, 2006 - 2009.
Neuroendocrine Regulation of Behaviors, Research Grant, National Institute of Neurological Disorders and Stroke, National Institutes of Health, 1983-2009.
Estrogen Receptor Activation in the Central Nervous System, Research Grant, National Institute of Mental Health, National Institutes of Health, 2003-2008.
Steroid Hormones, Neuroendocrine Function and Behavior, National Institute of Mental Health, Senior Scientist Award, 1997-2003.
Hormones, Immediate Early Proteins and Behavior, Research Grant, National Institute of Mental Health, 1996-2003.

Steroid Hormones, Neuroendocrine Function and Behavior, Research Scientist Development Award, National Institute of Mental Health, 1990-1995.

Neural Steroid Hormone Receptors: Subcellular Analysis, Research Grant, National Science Foundation, 1991-1993.

Steroid Hormones, Neuroendocrine Function and Behavior, Research Career Development Award, National Institute of Neurological Disorders and Stroke, National Institutes of Health, 1985-1990.

Neuroendocrine Regulation of Behaviors, Research Grant, National Science Foundation, 1980-1983.

National Research Service Award Postdoctoral Fellowship, National Institute of Child Health and Human Development, 1978-1979.

Research Interests:

Neural steroid hormone receptors: regulation and function
Neurotransmitter interactions with steroid hormone receptors
Peripubertal stress and Reproductive Neuroendocrinology
Cellular mechanisms of hormone action in the brain
Afferent regulation of steroid hormone-sensitive neurons
Hormonal regulation of reproductive behaviors

Research Publications:

Blaustein, J. D. and Wade, G. N. Ovarian influences on the meal patterns of female rats. **Physiology & Behavior**, 1976, **17**: 201-208.

Blaustein, J. D., Gentry, R. T., Roy, E. J., and Wade, G. N. Effects of ovariectomy and estradiol on body weight and food intake in gold thioglucose-treated mice. **Physiology & Behavior**, 1976, **17**: 1027-1030.

Blaustein, J. D. and Wade, G. N. Concurrent inhibition of sexual behavior but not brain (³H)estradiol uptake by progesterone in female rats. **Journal of Comparative and Physiological Psychology**, 1977, **91**: 742-751.

Blaustein, J. D. and Wade, G. N. Sequential inhibition of sexual behavior by progesterone in female rats: Comparison with a synthetic antiestrogen. **Journal of Comparative and Physiological Psychology**, 1977, **91**: 752-760.

Blaustein, J. D. and Wade, G. N. Ovarian hormones and meal patterns in rats: Effects of progesterone and role of gastrointestinal transit. **Physiology & Behavior**, 1977, **19**: 23-27.

Gentry, R. T., Wade, G. N., and Blaustein, J. D. Binding of (³H)estradiol by brain cell nuclei and female rat sexual behavior: Inhibition by experimental diabetes. **Brain Research**, 1977, **130**: 135-146.

Blaustein, J. D. and Wade, G. N. Progesterin binding by brain and pituitary cell nuclei and female rat sexual behavior. **Brain Research**, 1978, **140**: 360-367.

Wade, G. N. and Blaustein, J. D. Effects of an antiestrogen on neural estradiol binding and on behaviors in female rats. **Endocrinology**, 1978, **102**: 245-251.

Blaustein, J. D. and Feder, H. H. Cytoplasmic progesterin receptors in guinea pig brain: Characteristics and relationship to the induction of sexual behavior. **Brain Research**, 1979, **169**: 481-497.

Blaustein, J. D. and Feder, H. H. Cytoplasmic progesterin receptors in female guinea pig brain and their relationship to refractoriness in expression of female sexual behavior. **Brain Research**, 1979, **177**: 489-498.

Feder, H. H., Blaustein, J. D., and Nock, B. L. Oestrogen-progesterin regulation of sexual behavior in guinea pigs. **Journal of Steroid Biochemistry**, 1979, **11**: 873-877.

Blaustein, J. D. and Feder, H. H. Progesterone, at plasma levels lower than those of mid-pregnancy, decreases sexual behavior in ovariectomized rats. **Physiology & Behavior**, 1979, **23**: 1099-1104.

Schwartz, S., Blaustein, J. D., and Wade, G. N. Inhibition of estrous behavior by progesterone in rats: Role of neural estrogen and progesterin receptors. **Endocrinology**, 1979, **105**: 1078-1082.

Blaustein, J. D., Dudley, S. D., Gray, J. M., Roy, E. J., and Wade, G. N. Long-term retention of estradiol by brain cell nuclei and female rat sexual behavior. **Brain Research**, 1979, **103**: 355-359.

- Blaustein, J. D. and Feder, H. H. Nuclear progesterin receptors in guinea pig brain measured by an *in vitro* exchange assay after hormonal treatments that affect lordosis. **Endocrinology**, 1980, **106**: 1061-1069.
- Balthazart, J., Blaustein, J. D., Cheng, M. F., and Feder, H. H. Hormones modulate the concentration of cytoplasmic progesterin receptors in the brain of male ring doves (*Streptopelia risoria*). **Journal of Endocrinology**, 1980, **86**: 251-261.
- Blaustein, J. D., Ryer, H. I. and Feder, H. H. A sex difference in the progesterin receptor system of guinea pig brain. **Neuroendocrinology**, 1980, **31**: 403-409.
- Nock, B. L., Blaustein, J. D., and Feder, H. H. Changes in noradrenergic transmission alter the concentration of cytoplasmic progesterin receptors in hypothalamus. **Brain Research**, 1981, **207**: 371-396.
- Rodriguez-Sierra, J. F., Blaustein, J. D., Blake, C. A., Clough, R. W., and Elias, K. A. A decrease in cytosol estrogen receptors in the hypothalamus as a result of treatment of neonatal rats with glutamate. **Experimental Brain Research**, 1982, **48**: 272-278.
- Blaustein, J. D. Alteration of sensitivity to progesterone facilitation of lordosis in guinea pigs by modulation of hypothalamic progesterin receptors, **Brain Research**, 1982, **243**: 287-300.
- Blaustein, J. D. Progesterone in high doses may overcome progesterone's desensitization effect on lordosis by translocation of hypothalamic progesterin receptors. **Hormones and Behavior**, 1982, **16**: 175-190.
- Blaustein, J. D., Brown, T. J., and Reading, D. S. Failure of a protein synthesis inhibitor to block progesterone's desensitization action on lordosis in female rats. **Physiology & Behavior**, 1982, **29**: 475-481.
- Blaustein, J. D. and Brown, T. J. Mechanisms of estrogen-progesterin interactions on lordosis in female guinea pigs. In: **Hormones and Behavior in Higher Vertebrates**, ed. by J. Balthazart, E. Prove and R. Gilles, Springer-Verlag, Berlin, 1983, 18-31.
- Brown, T. J. and Blaustein, J. D. Inhibition of sexual behavior in female guinea pigs by a progesterin receptor antagonist. **Brain Research**, 1984, **301**: 343-349.
- Gilchrist, S. and Blaustein, J. D. The desensitization effect of progesterone on female rat sexual behavior is not due to interference with estrogen priming. **Physiology and Behavior**, 1984, **32**: 879-882.
- Reading, D. S. and Blaustein, J. D. The relationship between heat abbreviation and neural progesterin receptors in female rats. **Physiology and Behavior**, 1984, **32**: 973-981.
- Blaustein, J. D. and Brown, T. J. Progesterone decreases the concentration of hypothalamic and anterior pituitary estrogen receptors in ovariectomized rats. **Brain Research**, 1984, **304**: 225-236.
- Brown, T. J. and Blaustein, J. D. Supplemental progesterone delays heat termination and loss of progesterin receptors from hypothalamic cell nuclei in female guinea pigs. **Neuroendocrinology**, 1984, **39**: 384-391.
- Brown, T. J. and Blaustein, J. D. 1-(o-Chlorophenyl)-1(p-Chlorophenyl) 2,2,2,-trichloroethane induces functional progesterin receptors in the rat hypothalamus and pituitary gland. **Endocrinology**, 1984, **115**: 2052-2058.
- Blaustein, J. D. Noradrenergic inhibitors cause accumulation of nuclear progesterin receptors in guinea pig hypothalamus. **Brain Research**, 1985, **325**: 89-98.
- Blaustein, J. D. and Brown, T. J. Neural progesterin receptors: Regulation of progesterone-facilitated sexual behaviour in female guinea pigs. In: **Comparative Physiology and Biochemistry, Current Topics and Trends**, Volume C: Comparative Neurobiology, Ed. by R. Gilles and J. Balthazart. Springer-Verlag, Berlin, Heidelberg, 1985, pp. 60-76.
- Ahdieh, H. B., Brown, T. J., Wade, G. N. and Blaustein, J. D. Hypothalamic nuclear progesterin receptors and the duration of sexual receptivity in ovariectomized and ovariectomized-hysterectomized rats. **Physiology & Behavior**, 1985, **36**: 211-215.
- Brown, T. J. and Blaustein, J. D. Loss of hypothalamic nuclear-bound progesterin receptors: Factors involved and the relationship to heat termination in female guinea pigs. **Brain Research**, 1985, **358**: 180-190.
- Blaustein, J. D. Cell nuclear accumulation of estrogen receptors in rat brain and pituitary gland after treatment with a dopamine- β -hydroxylase inhibitor. **Neuroendocrinology**, 1986, **42**: 44-50.
- Blaustein, J. D., Brown, T. J. and McElroy, J. F. Hormonal Regulation of Reproductive Behaviors Iroy, J. F. Some catecholamine inhibitors do not

- cause accumulation of nuclear estrogen receptors in rat hypothalamus and anterior pituitary gland. **Neuroendocrinology**, 1986, **43**: 143-149.
- Blaustein, J. D., Brown, T. J. and Swearengen, E. S. Dopamine- β -hydroxylase inhibitors modulate the concentration of functional estrogen receptors in female rat hypothalamus and pituitary gland. **Neuroendocrinology**, 1986, **43**: 150-158.
- Brown, T. J. and Blaustein, J. D. Abbreviation of the period of sexual behavior in female guinea pigs by the progesterone antagonist, RU 486. **Brain Research**, 1986, **373**: 103-113.
- Blaustein, J. D. The α_1 -noradrenergic antagonist prazosin decreases the concentration of estrogen receptors in female rat hypothalamus. **Brain Research**, 1987, **404**: 39-50.
- Blaustein, J. D. and Letcher, B. Noradrenergic regulation of cytosol estrogen receptors in female hypothalamus: Possible role of α_2 -noradrenergic receptors. **Brain Research**, 1987, **404**: 51-57.
- Blaustein, J. D. Steroid receptors and hormone action in the brain. In: **Reproduction: A Behavioral and Neuroendocrine Perspective**, Ed. by B. Komisaruk and H. Siegal, Annals of the New York Academy of Sciences, New York, 1987, **474**: 400-414.
- Blaustein, J. D., Finkbohner, R. and Delville, Y. Estrogen-induced and estrogen-facilitated female sexual behavior is not mediated by progesterin receptors. **Neuroendocrinology**, 1987, **45**: 152-159.
- Blaustein, J. D. and Turcotte, J. Small apomorphine-induced increase in the concentration of estrogen receptors in female rat hypothalamus and pituitary. **Brain Research Bulletin**, 1987, **18**: 585-590.
- Brown, T. J., Moore, M. J. and Blaustein, J. D. Maintenance of progesterone-facilitated sexual behavior in female rats requires continued hypothalamic protein synthesis and nuclear progesterin receptor occupation. **Endocrinology**, 1987, **121**: 298-304.
- Blaustein, J. D. and Turcotte, J. Further evidence of noradrenergic regulation of rat hypothalamic estrogen receptor concentration: Possible nonfunctional increase and functional decrease. **Brain Research**, 1987, **436**: 253-264.
- Williams, C. L. and Blaustein, J. D. Steroids induce hypothalamic progesterin receptors and facilitate female sexual behavior in neonatal rats. **Brain Research**, 1988, **449**: 403-407.
- Olster, D. H. and Blaustein, J. D. Progesterone facilitation of lordosis in male and female Sprague-Dawley rats following priming with estradiol pulses. **Hormones and Behavior**, 1988, **22**: 294-304.
- Blaustein, J. D., King, J. C., Toft, D. O. and Turcotte, J. Immunocytochemical localization of estrogen-induced progesterin receptors in guinea pig brain. **Brain Research**, 1988, **474**: 1-15.
- Blaustein, J. D. and Olster, D. H. Gonadal steroid hormone receptors and social behaviors. In: **Advances in Comparative and Environmental Physiology**, Ed. by J. Balthazart, Springer-Verlag, Berlin, 1989, pp. 31-104.
- Olster, D. H. and Blaustein, J. D. Development of steroid-induced lordosis in female guinea pig: Effects of different estradiol and progesterone treatments, clonidine, and early weaning. **Hormones and Behavior**, 1989, **23**: 118-129.
- Olster, D. H. and Blaustein, J. D. Development of progesterone-facilitated lordosis in female guinea pigs: Relationship to neural estrogen and progesterin receptors. **Brain Research**, 1989, **484**: 168-176.
- Delville, Y. and Blaustein, J. D. Long-term ovariectomy and hormone-induced sexual behavior, progesterin receptors, and hypothalamic morphology in female rats. **Hormones and Behavior**, 1989, **23**: 269-278.
- Blaustein, J. D. and Turcotte, J. C. Estradiol-induced progesterin receptor-immunoreactivity is found only in estrogen receptor-immunoreactive cells in guinea pig brain. **Neuroendocrinology**, 1989, **49**: 454-461.
- Blaustein, J. D. and Turcotte, J. C. Estrogen receptor-immunostaining of neuronal cytoplasmic processes as well as cell nuclei in guinea pig brain. **Brain Research**, 1989, **495**: 75-82.
- Blaustein, J. D. and Turcotte, J. C. A small population of tyrosine hydroxylase-immunoreactive neurons in the guinea pig arcuate nucleus contains progesterin receptor-immunoreactivity. **Journal of Neuroendocrinology**, 1989, **1**: 333-338.
- Hyde, B. A., Blaustein, J. D. and Black, D. L. Differential regulation of progesterin receptor-immunoreactivity in the rabbit oviduct. **Endocrinology**, 1989, **125**: 1479-1483.
- Bittman, E. L. and Blaustein, J. D. Effects of day length on sheep neuroendocrine estrogen and

- progesterin receptors. **American Journal of Physiology**, 1990, **258**: R135-R142.
- Blaustein, J. D., Olster, D. H., Delville, Y., Nielsen, K. H., Tetel, M. J. and Turcotte, J. C. Hypothalamic sex steroid hormone receptors and female sexual behavior: New insights from immunocytochemical studies. In: **Hormones, Brain and Behavior in Vertebrates. 2. Behavioural Activation in Males and Females - Social Interaction and Reproductive Endocrinology**. Comparative Physiology. Volume 9, Ed. by J. Balthazart, Karger, Basel, 1990, 75-90.
- Olster, D. H. and Blaustein, J. D. Biochemical and immunocytochemical assessment of neural progesterin receptors following estradiol treatments that eliminate the sex difference in progesterone-facilitated lordosis in guinea pigs. **Journal of Neuroendocrinology**, 1990, **2**: 79-86.
- Nielsen, K. H. and Blaustein, J. D. Many progesterin receptor-containing neurons in the guinea pig ventrolateral hypothalamus contain substance P: immunocytochemical evidence. **Brain Research**, 1990, **517**: 175-181.
- Olster, D. H. and Blaustein, J. D. Immunocytochemical colocalization of progesterin receptors and μ -endorphin or enkephalin in the hypothalamus of female guinea pigs. **Journal of Neurobiology**, 1990, **21**: 768-780.
- Blaustein, J. D. and Turcotte, J. C. Down-regulation of progesterin receptors in guinea pig brain: New findings using an immunocytochemical technique. **Journal of Neurobiology**, 1990, **517**: 675-685.
- Olster, D. H. and Blaustein, J. D. Development of estradiol-induced progesterin receptor immunoreactivity in the hypothalamus of female guinea pigs. **Journal of Neurobiology**, 1991, **22**: 195-203.
- Brown, T. J., Blaustein, J. D., Hochberg, R. B., and MacLusky, N. J. Estrogen receptor binding in regions of the rat hypothalamus and preoptic area after inhibition of dopamine-beta-hydroxylase. **Brain Research**, 1991, **549**: 260-267.
- Olster D. H. and Blaustein J.D. Progesterone facilitates lordosis, but not LH release, in estradiol pulse-primed male rats, **Physiology & Behavior**, 1991, **50**: 237-242.
- Blaustein, J. D., Nielsen, K. H., Delville Y., Turcotte J. C. and Olster D. H. Neuroanatomical interactions of substance P and steroid receptors in behaviorally-relevant neural sites of action for ovarian steroids. **Annals of the New York Academy of Sciences**, 1991, **632**: 314-331.
- Delville, Y. D. and Blaustein, J. D. A site of action for estradiol induction of progesterone-facilitated sexual receptivity in female guinea pigs, **Brain Research**, 1991, **559**: 191-199.
- Tetel, M. J. and Blaustein, J. D. Immunocytochemical evidence for noradrenergic regulation of estrogen receptor concentrations in the guinea pig hypothalamus, **Brain Research**, 1991, **565**: 321-329.
- Blaustein, J. D., Lehman, M. N., Turcotte, J. C., Greene, G. Estrogen receptors in dendrites and axon terminals in the guinea pig hypothalamus, **Endocrinology**, 1992, **131**: 281-290.
- Olster, D. H. and Blaustein, J. D. Estradiol pulses induce progesterin receptors selectively in substance P-immunoreactive neurons in the ventrolateral hypothalamus of female guinea pigs, **Journal of Neurobiology**, 1991, **23**: 293-301.
- Olster, D. H. and Blaustein, J. D. Progesterin receptors in substance P-immunoreactive neurons in the hypothalamus of male guinea pigs after behaviorally-effective estradiol pulse treatment, **Journal of Neurobiology**, 1991, **23**: 302-308.
- Blaustein, J. D. Modulation of sex steroid receptors by neurotransmitters: Relevant techniques, **Neuroprotocols: A Companion to Methods in Neurosciences**, 1992, **1**: 42-51.
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- Blaustein, J.D. Embracing the evolution of Endocrinology. (Editorial) **Endocrinology**, 2008, **149**: 1-2.
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- Blaustein, J.D. Neuroendocrine regulation of feminine sexual behavior: Lessons from rodent models and thoughts about humans. **Annual Reviews of Psychology**, 2008, **59**: 93-118.
- Blaustein, J.D. An estrogen by any other name... (Editorial) **Endocrinology**, 2008, **149**: 2697-2698.
- Blaustein, J.D. Minireview: Progesterone and progesterin receptors in the brain: the neglected ones. (Editorial) **Endocrinology**, 2008, **149**: 2737-2738.
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- Blaustein, J.D. Hormones and female sexual behavior, In: **Encyclopedia of Neuroscience**, (G. Koob, R.F. Thompson, M. LeMoal, Editors), 2009, Elsevier, San Diego, in press.
- Books Edited:**
- Blaustein, J.D. **Handbook of Neurochemistry and Molecular Neurobiology: Behavioral Neurochemistry, Neuroendocrinology and Molecular Neurobiology** (Lajtha, A, Series Editor), Volume 21, 2007, Springer: New York, 954 pages.
- Invited Lectures:**
- Winter Conference on Brain Research, Sun Valley, ID, January, 1979.
- Departments of Psychology and Animal Science, North Dakota State University, Fargo, ND, January, 1980
- Midlands Chapter, Society for Neuroscience, University of Nebraska Medical Center, November, 1980.
- Department of Biochemistry, Iowa State University, Ames, IA, April, 1981.
- Conference on Reproductive Behavior, East Lansing, MI, June, 1982
- European Society of Comparative Physiology and Biochemistry, Beilefeld, West Germany, September, 1982.
- Midwest Psychological Association, Chicago, IL, April, 1983.
- Psychology Department, Vassar College, Poughkeepsie, NY, February, 1984.
- Laboratory for Human Reproduction and Reproductive Biology, Harvard Medical School, Boston, MA, February, 1984.
- Molecular and Cellular Biology Program, University of Massachusetts, Amherst, MA, April, 1984.

- First International Congress on Comparative Physiology and Biochemistry, Liege, Belgium, August, 1984.
- Laboratoire des Hormones, INSERM U33, Bicetre, France, September, 1984.
- Neuroscience Program, Michigan State University, East Lansing, MI, May, 1985.
- Physiology Department, University of Massachusetts Medical School, Worcester, MA, January, 1986.
- Psychology Department, University of Connecticut, Storrs, CT, April, 1988.
- Molecular and Cellular Biology Program, University of Massachusetts, April, 1988.
- Neuroscience Program, Michigan State University, East Lansing, MI, February, 1989.
- Oregon Regional Primate Research Center, Beaverton, OR and Department of Physiology, Oregon Health Sciences University, Portland, OR, June, 1989.
- International Conference on Hormones, Brain and Behaviour, Liege, Belgium, August, 1989.
- Neuroendocrinology Special Interest Dinner, Society for Neuroscience, Phoenix, AZ, November, 1989.
- Neuroscience and Behavior Program, University of Massachusetts, Amherst, MA, November, 1990.
- Reproductive Sciences Program, University of Michigan, Ann Arbor, MI, December, 1990.
- Annual Meeting of the American Society of Zoologists, San Antonio, TX, December, 1990.
- Rhode Island Hospital, Brown University, Providence, RI, May, 1991.
- National Institute of Mental Health, Bethesda, MD, October, 1991.
- Molecular and Cellular Biology Program, University of Massachusetts, Amherst, MA, December, 1991.
- Department of Biology, Boston University, Boston, MA, December, 1991.
- School of Biological Sciences, University of Kentucky, Lexington, KY, March, 1992.
- Center for Biological Timing, University of Virginia, Charlottesville, VA, February, 1993.
- Conference on Reproductive Behavior, Michigan State University, East Lansing, MI, June, 1993.
- International Conference on Hormones, Brain and Behaviour, Tours, France, August, 1993.
- Department of Cell Biology, Baylor University School of Medicine, Houston, TX, November, 1993.
- Neuroscience Program, Florida State University, Tallahassee, FL, Lecturer in Rushton Lectures in Brain-Hormone-Sensory Interactions in Reproductive Physiology and Behavior (three lectures on Neural Steroid Hormone Receptors and Behavior), February, 1994.
- Center for Studies in Behavioral Neurobiology, Concordia University, Montreal, Quebec, March, 1994.
- Breckenridge Conference on Steroid Receptors and Brain Function, chaired workshop, Neuronal steroid receptors in extranuclear locations: speculation on function, April, 1994.
- Population Council, Rockefeller University, New York, NY, November, 1994.
- Breckenridge Conference on Steroid Receptors and Brain Function, chaired workshop on ligand-independent activation of steroid receptors. April, 1995.
- Psychology Department and Neuroscience and Behavior Program, University of Massachusetts, Amherst. What does a female rat's reproductive tract tell her brain? March, 1996.
- Merck Foundation/AAAS Distinguished Speakers in Biochemistry, Vassar College, Poughkeepsie, NY, Cellular processes of interactions between neurotransmitters and steroid hormones in the brain, April, 1996.
- Breckenridge Conference on Steroid Receptors and Brain Function, discussant in workshop on "Molecular and genetic tools for investigating steroid hormone action in the brain", April, 1996.
- Conference on Reproductive Behavior, Concordia University, Montreal, Quebec. Participant in roundtable discussion, Vaginal stimulation and physiology, June, 1996.
- Psychology Department, University of Pennsylvania, Philadelphia, PA. Regulation of hormone-responsive systems in the brain by afferent input, November, 1996.
- Conference on Reproductive Behavior, Baltimore, Maryland. Participant in symposium on Hormonal Modulation of Neural Circuits. May, 1997.
- Pfizer Pharmaceuticals, Groton, CT. Steroid hormone modulation of the brain: interactions with neurotransmitters. October, 1997.

- Society for Neuroscience, Annual Meeting, New Orleans, LA. Chair of Behavioral Endocrinology Special Interest Social. October, 1997.
- Psi Chi, The National Honor Society in Psychology, University of Massachusetts, December, 1997.
- Society for Behavioral Neuroendocrinology, Atlanta, GA, Afferent regulation of steroid hormone receptors and behavior. In: Presidential Symposium - Weird mechanisms of action of steroid hormones (organizer: Arthur Arnold), June, 1998.
- Society for Neuroscience, Annual Meeting, Los Angeles, CA, Progesterone receptors and behavior: Use of steroid receptor-disrupted animals and other methods. In: Symposium on Molecular and Genetic Approaches in Behavioral Endocrinology (organizer: Randy Nelson), November, 1998.
- Biology Department, University at Albany - SUNY, Albany, NY, Regulation of neuronal progesterone receptors by progesterone and neurotransmitters: implications for behavior. December, 1998.
- Wyeth-Ayerst, Radnor, PA. Regulation of steroid hormone receptors by steroid hormones and environmental input. January, 1999.
- Biology Department, Purdue University, West Lafayette, IN, Regulation of neuronal progesterone receptors by progesterone and neurotransmitters: implications for behavior. May, 1999.
- Biology Department, Boston University, A central role of progesterone receptors in neuronal function. December 8, 1999.
- Neuroscience Program, UCLA, A central role for progesterone receptors in neuronal function. March, 2000.
- American Neuroendocrine Society, in Workshop on Growth factors and estrogen action (chair: Dominique Toran-Allerand), Toronto, June, 2000.
- Neuroendocrinology Social, Annual Meeting of the Society for Neuroscience (Margaret McCarthy, organizer). Steroid receptors in unusual places. November, 2000.
- Shriver Center for Mental Retardation, Waltham, MA. A central role for progesterone receptors in brain and behavioral integration. March, 2001.
- University of Massachusetts Medical Center, Worcester, MA. Neuroendocrinology at UMass. June, 2001.
- Baystate Medical Center, Department of Endocrinology, Metabolism and Diabetes, Springfield, MA, A central role for progesterone receptors in the neuronal integration. July, 2001.
- University of Virginia, Neuroscience Program, Charlottesville, VA. Beyond progesterone: integration of information about hormonal and social environment by neuronal progesterone receptors. February, 2002.
- University of Virginia, Neuroscience Seminar, Charlottesville, VA. A history of steroid receptors in the brain. February, 2002.
- Tufts University School of Veterinary Medicine, Grafton, MA. Beyond progesterone: integration of hormonal state and the social environment by neuronal progesterone receptors, May, 2002.
- University of Milan, Italy, Department of Pharmacological Science. Neural steroid hormone receptors: integration of hormonal and environmental information (are steroid hormones important?), February, 2003.
- Second International Meeting: Steroids and Nervous System, Torino, Italy. Neural steroid hormone receptors: integration of hormonal and afferent stimulation (Are steroid hormone receptors misnamed?), February, 2003.
- American Headache Society 45th Annual Scientific Meeting, Effects of female hormones on the brain, vasculature, in CME credit precourse: Hormone Therapy and its risks, Chicago, June, 2003.
- International Society for the Study of Women's Sexual Health, Neuronal progesterone receptors integrate hormonal and genitosensory influences on behavior: animal models, Amsterdam, October, 2003.
- Netherlands Institute for Brain Research, Neural steroid hormone receptors: activation by hormones and environmental stimuli (Are steroid hormones necessary?), Amsterdam, October, 2003.
- Satellite Symposium on *Sex Differences in the Brain: from Genes to Behavior*, A Satellite Symposium of the Society for Neuroscience Annual Meeting, Neuronal integration of genitosensory and hormonal information by progesterone receptors (in females with some thoughts about males), New Orleans, LA, November, 2003.
- Second World Congress on Women's Mental Health, Neuronal Integration of Sensory Information. Washington, DC, March, 2004.
- Northeast Undergraduate Research Organization for Neuroscience, Writing and reading journal reviews: reading between the lines, Wheaton College, Norton, MA, May, 2004.

University of Kentucky Reproduction Seminar,
Neuronal steroid hormone receptors: integration
of hormonal and environmental information (are
steroid hormones essential?), Lexington, KY,
May, 2004.

Palatin Technologies, Integration of hormones and
neurotransmitters by neural steroid hormone
receptors, NJ, Cranbury, NJ, September, 2004.

Society for Behavioral Neuroendocrinology Annual
Meeting. Why does the brain need the gonads?
Afferent regulation of "hormone-dependent"
processes. Lisbon, Portugal, July, 2004.

State University of New York at Stony Brook,
Department of Neurobiology and Behavior, Stony
Brook, NY. Hormones and behavior without the
hormones: influences of the social environment
on steroid hormone receptors. April, 2006.

Center for Behavioral Neuroscience, Georgia State
University, Atlanta, GA. Hormones and behavior
without the hormones: influences of the social
environment on steroid hormone receptors.
November, 2006.

Department of Neuroscience, Florida State
University, Tallahassee, FL. External influences
on reproductive behavior. February, 2008.

Department of Neuroscience, Florida State
University, Tallahassee, FL. Peripubertal
influences on reproduction. February, 2008.

Society for Behavioral Neuroendocrinology,
Groningen, The Netherlands. Long-term
influences of peripubertal/adolescent stressors on
adult brain and behavior, July, 2008.

Invited Virtual Internet Symposia:

Blaustein, J.D., Auger, A.P., Meredith, J.L. and
Moffatt, C.A. (1998) *Influences of mating
stimulation on sex steroid receptor containing
neurons: use of immediate early proteins*. In
symposium: Neural substrates of sexual
motivation and performance as revealed by
neural immediate early gene expression. (Mike
Baum organizer). On-line proceedings of the 5th
*Internet World Congress on Biomedical Sciences
at McMaster University, Canada (INABIS 98)*.
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