

CURRICULUM VITAE
EMILIE FRANCESCA RISSMAN

Personal

Birthplace: Chicago, Illinois
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Education

1979 B.A. in Psychology, University of California, Berkeley, CA
1984 Ph.D. in Biological Psychology, Advisor: R.E. Johnston, Cornell University
1984-86 Postdoctoral Advisor: F.H. Bronson, Dept. of Zoology, University of Texas, Austin

Honors

1979 Highest honors in Psychology from UCB.
1980-83 National Science Foundation Predoctoral Fellowship.
1979-80 Sage Graduate Fellowship.
1979-81 Dallenbach Fellowship.
1982 Association for Women in Psychology Outstanding Graduate Research Award.
1990 Frank A. Beach Award in Behavioral Neuroendocrinology.
1996-2006 Career Development Award from NIMH
2000-02 Treasurer, Society for Behavioral Neuroendocrinology.
2001 Rushton Lecturer, Florida State University.
2001-04 Member of the National Research Council's Institute for Laboratory Animal Research.
2004 Dunaway-Burnham Speaker Dartmouth University Medical School
2003-2006 Member NICHD Network on Psychosexual Differentiation

Professional Appointments

1986-91 Assistant Professor of Psychology, University of Virginia.
1986-present Member of the Neuroscience Program, University of Virginia.
1989-2000 Member of the Center for Biological Timing, University of Virginia.
1991-92 Assistant Professor of Biology, University of Virginia.
1992-2000 Associate Professor of Biology, University of Virginia.
1997-1999 Associate Research Professor of Pediatrics, UVA School of Medicine
2000- 2002 Professor of Biology, University of Virginia
2000- 2001 Director of Graduate Studies in Biology
2002-present Professor of Biochemistry and Molecular Genetics, UVA School of Medicine
2002-present Research Professor of Endocrinology, UVA School of Medicine

Professional Activities

National Review Committees

- 1992-94 Member of the NIMH Psychobiology and Behavior Review Committee.
1994-98 Member of the National Institutes of Health Reviewers Reserve.
1996-99 Member of the NSF Special Emphasis Panel in Biological Sciences.
1999 Ad Hoc member of the NIH Integrative, Functional, and Cognitive Neuroscience Review Panel 1.
2000 Ad Hoc member of the NIH Integrative, Functional, and Cognitive Neuroscience Review Panel 2.
2001-2005 Member of the National Institute of General Medical Sciences BRT Review Panel.
2004 Member of the NIH/NCRR COBRE (Center for Biomedical Research Excellence Review Panel

Editorial Boards

- 1994-00 Consulting Editor for *Journal of Comparative Psychology*.
1995-04 Consulting Editor for *Behavioral Neuroscience*.
1997-05 Editorial Board member *Hormones and Behavior*.
2002-04 Editorial Board member *Reproductive Biology and Endocrinology*
2003-2006 Editorial Board member *Endocrinology*
2003 Guest editor for *Hormones and Behavior* special issue on Aggressive Behavior
2004 Guest editor for *ILAR Journal* issue on Comparative Animal Models

Membership in Scientific Societies

- Society for Behavioral Neuroendocrinology, Initial Co-Director (1995-97)
Advisory Board Member (1996-2001)
Host for the 1999 meeting in Charlottesville, VA
Executive Secretary (1997-1999)
1997 Chair of the Student Awards Committee
1997-1999 Chair of the Nominations Committee
Treasurer (2000-2002)
2004 Chair of the Nominations Committee
American Neuroendocrinology Society
International Society of Neuroendocrinology
1997 Nominated for the Council for the International Society of Neuroendocrinology.
Society for Neuroscience
2002-2004 Mentor for the SFN Minority Neuroscience Fellowship Program.
Endocrine Society
International Behavioral Neuroscience Society
International Academy for Sex Research

Sessions Organized and Chaired at Meetings

- Organized and chaired session on "Multiple forms and functions of GnRH" at the Conference on Reproductive Behavior Boston, MA. June '95.
- Chair for session on "Neuroendocrine Mechanisms of Affiliation" at the New York Academy of Sciences conference on The Integrative Neurobiology of Affiliation. Washington, DC. March '96.
- Organized and chaired session on "Steroid regulation of GnRH" at the Workshop on Steroid Hormones and Brain Function. Breckenridge, CO. March '96.
- Co-organizer and chair of NIMH Satellite Symposium at the Society for Neuroscience meeting in DC. Workshop title: Something old / Something new: Single gene mutations and knockouts new opportunities for behavioral neuroscience. Nov. '96.
- Organized and chaired session on "Estrogen and Cognition" at the Workshop on Steroid Hormones and Brain Function. Breckenridge, CO. April 2000.
- Co-organizer of workshop on Aggression at the Society for Behavioral Neuroendocrinology meeting in Amherst, MA. June 2002.
- Co-organizer of session on "New insights into androgen receptor function" at the Workshop on Steroid Hormones and Brain Function. Breckenridge, CO. March 2004.

Invited Lectures at National and International Scientific Meetings

- Rissman, E.F. (1988) "Acyclic female sexual behavior." International Academy of Sex Research meetings; Minneapolis, MN.
- Rissman, E.F. (1988) "The musk shrew, *Suncus murinus*, androgen dependent female sexual behavior and male-induced follicular development." NIH: Unconventional Vertebrates as Animal Models in Endocrine Research meeting; Bethesda, MD.
- Rissman, E.F., Wayne, N.L. (1989) "Environmental regulation of reproduction in an opportunistic breeder: the musk shrew (Insectivora: *Suncus murinus*)." XIth International Symposium on Comparative Endocrinology; Malaya, Spain.
- Rissman, E.F. (1990) "Sex, Shrews and Videotapes." Frank A. Beach award acceptance speech Society for Neuroscience meeting; St. Louis, MO.
- Rissman, E.F. (1991) "Evolutionary approach to the study of reproductive behavior" NIMH workshop on "Determinants of Sexual and Reproductive Behavior"; Bethesda, MD.
- Rissman, E.F., Dellovade, T.L. (1993) "Social modulation of female reproduction: behavioral, ovarian, and neural effects." 25th Annual Conference on Reproductive Behavior; East Lansing, MI.
- Rissman, E.F. (1994) "Function and importance of aromatase in the regulation of female sexual behavior." Workshop on Steroid Hormones and Brain Function; Breckenridge, CO.
- Rissman, E.F. (1995) "Ramifications of social behavior on neuroendocrine function." Annual Conference of the Society for the Study of Reproduction; Davis, CA.
- Rissman, E.F. (1995) "Behavioral induction of neuroendocrine neurons" International Behavioral Neuroscience Society Conference in Santiago de Compostela Spain.
- Rissman, E.F. (1996) "Behavioral regulation of GnRH production" International Conference on Hormones, Brain and Behavior; Torino, Italy.

- Lubahn, D.B., Rissman, E.F. (1996) " Estrogen receptor function as revealed by knockout studies: behavior and neuroendocrine aspects." Joint presentation at the NIMH Satellite Symposium "Something old / Something new: Single gene mutations and knockouts new opportunities for behavioral neuroscience" held prior to the Society for Neuroscience Meeting.
- Rissman, E.F. (1998) "Mouse molecular genetic tools as applied to the study of behavioral neuroendocrinology." Presentation at the Symposium on Genetic Analyses in Behavioral Endocrinology at the Society for Neuroscience Meeting, LA.
- Rissman, E.F., Wersinger, S.R., Fugger, H.N., Foster, T.C (1998) "What the estrogen receptor (ER) alpha knockout mouse can teach us about multiple forms and functions of ER" Presentation at the Knockouts and Mutants Satellite Symposium in San Diego prior to the Society for Neuroscience Meeting.
- Rissman, E.F. (1999) "Natural and engineered animal models for the study of behavioral neuroendocrinology." Winter Animal Behavior Conference, Jackson Hole, WY.
- Rissman, E.F. (1999) "Genetic and non-genetic determination of mouse masculine sexual behavior." Society for Behavioral Neuroendocrinology Presidential Symposium. Charlottesville, VA.
- Rissman, E.F. (1999) "Use of knock-out mice to examine the contributions of steroid receptors to masculine sexual behavior" Binational Mexico-U.S. Workshop on Reproductive and Behavioral Neuroendocrinology Queretaro, Mexico.
- Rissman, E.F. (2000) "Roles of ER α and ER β in learning and memory" American Psychological Association annual meeting. Washington, DC.
- Rissman, E.F. (2000) "Roles of ER α and ER β in reproductive and cognitive behaviors" The fifth meeting of the Joint International Center for Biotechnology and EUROSTERONE Symposium on Nuclear Receptors in Health and Disease, Stockholm Sweden.
- Rissman, E.F. (2001) "Trade off between nutrition and puberty in musk shrews: life on the energetic edge" Florida State University's Rushton Lecture hosted by the Neuroscience Program.
- Temple, J.L., Rissman, E.F. (2001) "Nutrition, sex and GnRH" 2nd International symposium on the comparative biology of gonadotropin-releasing hormone: molecular forms and receptors, Penang, Malaysia.
- Rissman, E.F. (2002) "Life in the fast lane: the musk shrew as a behavioral neuroendocrine model system" VII Curso Internacional Bases Biologicas de la Conduita: Adaptaciones y Mecanismos. Universidad Aut3noma de Tlaxcala, Mexico.
- Rissman, E.F. (2002) "Genetic approaches to the study of social behavior" International Conference on the Frontiers of Biomedical Sciences: Behavior and Genomics. Beijing, People's Republic of China.
- Rissman, E.F. (2003) "Steroid receptors and behavioral neuroendocrinology" Endocrine Society Symposium Philadelphia, PA.
- Rissman, E.F. (2004) "New twists and turns for the estrogen receptor β " International Behavioral Neuroscience meeting in Key West, FL.
- Rissman, E.F. (2004) "New insights into androgen receptor function in male sexual behavior" Workshop on Steroid Hormones and Brain Function. Breckenridge, CO.

Rissman E.F. (2004) "Interactions between environment and genetics" Keynote speaker at the Society of Young Neuroscientists And Professors in the South East meeting at James Madison University, Harrisonburg, VA.

Rissman E.F. (2005) "Genetic models for the study of gonadal steroid dependent behaviors" Plenary lecture at the 3rd International meeting on Steroids and the Nervous System. in Torino, Italy.

Invited Participant at National and International Scientific Meetings or Courses

The 40th Annual Short Course in Medical and Experimental Mammalian Genetics. Jackson Laboratory. Bar Harbor, ME; June 1999.

The First Annual Conference on Sex and Gene Expression. Sponsored by the Society for the Advancement of Women's Health Research. Winston-Salem, NC; March 2000.

Fourth Annual Workshop "Frontiers in Estrogen Action". Sponsored by Wyeth-Ayerst Laboratories. Palm Beach, FL; April 2000.

Advanced Techniques in Molecular Neuroscience Course. Cold Spring Harbor Laboratory, NY. July 2004.

Grant Support

Continuous Federal Funding (NSF 1987-present, NIH 1991-present)

Current:

National Institute of Mental Health K02 MH01349, "Behavioral regulation of neuroendocrine cells." 9/96-9/06, direct costs current year: \$ 112,050.

National Institute of Mental Health R01 MH57759: "Genetic and neuroendocrine control of behavioral systems." 4/99-4/08, direct costs current year: \$ 250,000.

National Institute of Mental Health R01 MH068729 "Reproduction, nutrition and behavior." 4/04-3/09. direct costs requested for current year: \$180,000.

National Institute of Neurological Disorders and Stroke R01 NS043196 "Sex chromosome effects on neural development" 12/1/02-11/30/06 PI: Art Arnold current year direct costs on Rissman subcontract: \$ 82,000.

National Science Foundation SGER "Development of a mouse with inducible estrogen receptor α function" 7/03-7/05, total direct costs: \$ 52,631.

Doctoral and Postdoctoral Trainees

Tammy Dellovade, PhD in Biology, 1994. At present: Research Scientist, Curtis Neuroscience Corp. Boston, MA.

Cynthia Gill, PhD in Biology, 1997. Recipient of an individual pre-doctoral NIH NRSA fellowship. At present: Lecturer, Dept. of Zoology, University of Texas at Austin.

Sean Veney, PhD in Biology 2000. At present: Assistant Professor of Biology Kent State University, Kent OH.

Heather Fugger, PhD in Neuroscience 2000. Recipient of an individual pre-doctoral NIH NRSA fellowship At present: Post-doctoral Fellow with Dr. Mark Packard, Texas A and M University.

Jennifer Temple, PhD in Neuroscience 2002. Recipient of an NSF pre-doctoral Fellowship. At

present: Post-doctoral Fellow at NINDS with Dr. Susan Wray.
Elka Scordalakes, PhD in Biology 2003. At present: Post-doctoral Fellow at NINDS with Dr. Hal Gainer.
Andrea Kudwa, PhD in Neuroscience expected in 2004. Recipient of an individual pre-doctoral NIH NRSA fellowship
Cristian Bodo, PhD in Neuroscience expected in 2007.

Louise Freeman, PhD University of California at Berkeley, Postdoctoral Fellow in my lab, 1995-1997. Current position Assistant Professor of Psychology, Mary Baldwin College, Staunton, VA.
Patricia Schiml, PhD University of California at Davis, NIH Postdoctoral Fellow in my lab, 1996-1999. Current position Research Assistant Professor in Psychology Wright State University, Dayton, Ohio.
Scott Wersinger, PhD Boston University, NIH Postdoctoral Fellow in my lab, 1996-1999. Current position Assistant Professor of Psychology, SUNY Buffalo, NY.
Dennis Brad Imwalle, PhD University of Kentucky, Postdoctoral Fellow in my lab, 2000-2002,. Current position Research Assistant Professor of Animal Sciences, Rutgers University, NJ.
Alexander Kauffman, PhD University of California at Berkley, NIH Postdoctoral Fellow in my lab, 2002-present.
Emilio Dominguez-Salazar, PhD UNAM Queretaro Mexico, Postdoctoral Fellow in my lab 2003-present.
Melissa Burns Cusato, PhD University of Texas at Austin, Postdoctoral Fellow in my lab 2003-present.

Teaching Experience

Animal Behavior (undergraduate lecture course)
Biology of Reproduction (undergraduate lecture or seminar course)
Behavioral Endocrinology (undergraduate seminar course)
Neuroendocrinology (undergraduate seminar course)
Animal Behavior Laboratory (undergraduate lab course)
Behavioral Neuroscience (graduate seminar course)
Behavioral and Cognitive Neuroscience (upper level undergrad and graduate seminar)

Publications (peer-reviewed research papers)

1. Rissman, E.F. (1980) Prepubertal sensitivity to melatonin in male hamsters. *Biology of Reproduction* 22:277-280.
2. Rissman, E.F. (1983) Foraging responses of Trigona bees to enriched *Aphelandra golfodulcensis* flowers. *Tropical Ecology* 24:57-62.
3. Rissman, E.F. (1983) Detection of cuckoldry in ring doves. *Animal Behaviour* 31:449-456.
4. Matteo, S., Rissman, E.F. (1984) Increased sexual activity during the midcycle portion of the human menstrual cycle. *Hormones and Behavior* 18:249-255.

5. Rissman, E.F., Adkins-Regan, E. (1984) Androgens and reproductive behavior in ovariectomized ring doves. *Physiology and Behavior* 32:697-699.
6. Rissman, E.F., Ascenzi, M., Johnson, P., Adkins-Regan, E. (1984) Effect of embryonic treatment with oestradiol benzoate on reproductive morphology, ovulation and oviposition and plasma LH concentrations in female quail *Coturnix coturnix japonica*. *Journal of Reproduction and Fertility* 71:411-417.
7. Rissman, E.F., Sheffield, S.D., Kretzmann, M.B., Fortune, J.E., Johnston, R.E. (1984) Chemical cues from families delay puberty in male California voles. *Biology of Reproduction* 31:324-331.
8. Rissman, E.F., Wingfield, J.C. (1984) Hormonal correlates of polyandry in the spotted sandpiper, *Actitis macularia*. *General and Comparative Endocrinology* 56:401-405.
9. Rissman, E.F., Johnston, R.E. (1985) Female reproductive development is not activated by male California voles exposed to family cues. *Biology of Reproduction* 32:352-360.
10. Bronson, F.H., Rissman, E.F. (1986) The biology of puberty. *Biological Reviews* 61:157-195.
11. Rissman, E.F., Johnston, R.E. (1986) Nutritional and social cues influence puberty in California voles. *Physiology and Behavior* 36:343-347.
12. Rissman, E.F. (1987) Social variables influence female sexual behavior in the musk shrew (*Suncus murinus*). *Journal of Comparative Psychology* 101:3-6.
13. Rissman, E.F. (1987) Gonadal influences on sexual behavior in the male musk shrew (*Suncus murinus*). *Hormones and Behavior* 21:132-136.
14. Rissman, E.F., Bronson, F.H. (1987) The role of the ovary and adrenal gland in the sexual behavior of the musk shrew (*Suncus murinus*). *Biology of Reproduction* 36:664-668.
15. Rissman, E.F., Nelson, R.J., Blank, J.L., Bronson, F.H. (1987) Reproductive response of a tropical mammal the musk shrew (*Suncus murinus*) to photoperiod. *Journal of Reproduction and Fertility* 81:563-566.
16. Tennant, L.E., Rissman, E.F., Bronson, F.H. (1987) Scent marking in the musk shrew (*Suncus murinus*). *Physiology and Behavior* 39:677-680.
17. Rissman, E.F., Crews, D. (1988) Hormonal correlates of sexual behavior in the female musk shrew: The role of estradiol. *Physiology and Behavior* 44:1-7.
18. Rissman, E.F., Silveira, J., Bronson, F.H. (1988) Patterns of sexual receptivity in the female musk shrew (*Suncus murinus*). *Hormones and Behavior* 22:186-193.
19. Bronson, F.H., Rissman, E.F. (1989) Epinephrine release in response to sexual activity in male versus female rats. *Physiology and Behavior* 45:185-189.
20. Rissman, E.F. (1989) Male-related chemical cues promote sexual receptivity in the female musk shrew. *Behavioral and Neural Biology* 51:114-120.
21. Rissman, E.F., Crews, D. (1989) Effect of castration on epididymal sperm storage in male musk shrews and mice. *Journal of Reproduction and Fertility* 86:219-222.
22. Clendenon, A.L., Rissman, E.F. (1990) Functional significance of prolonged copulatory behavior in the female musk shrew. *Physiology and Behavior* 47:831-835.
23. Rissman, E.F. (1990) The musk shrew, *Suncus murinus*, a unique animal model for the study of female behavioral endocrinology. *Journal of Experimental Zoology* 4:207-209.
24. Rissman, E.F., Clendenon, A.L., Krohmer, R.W. (1990) The role of androgens in the regulation of sexual behavior in the female musk shrew. *Neuroendocrinology* 51:468-473.

25. Rissman, E.F., Taymans, S.E., Wayne, N.L. (1990) Social cues influence growth and sexual maturation of the male musk shrew (*Suncus murinus*). *Journal of Reproduction and Fertility* 89:697-706.
26. Wayne, N.L., Rissman, E.F. (1990) Effects of photoperiod and social variables on reproduction and growth in the male musk shrew (*Suncus murinus*). *Journal of Reproduction and Fertility* 89:707-715.
27. Wayne, N.L., Rissman, E.F. (1990) Environmental regulation of reproduction in an opportunistic breeder: the musk shrew (Insectivora: *Suncus murinus*). *Progress in Comparative Endocrinology*, Wiley-Liss Inc. pp. 668-672.
28. Rissman, E.F. (1991) Evidence that neural aromatization of androgens regulates the expression of sexual behaviour in female musk shrews. *Journal of Neuroendocrinology* 3:441-448.
29. Wayne, N.L., Rissman, E.F. (1991) Tropical photoperiods affect reproductive development in the musk shrew, *Suncus murinus*. *Physiology and Behavior* 50:549-53.
30. Wayne, N.L., Wade, G.N., Rissman, E.F. (1991) Effects of food restriction and social cues on sexual maturation and growth in male musk shrews (*Suncus murinus*). *Journal of Reproduction and Fertility* 91:385-392.
31. Dellovade, T.L., Blaustein, J.D., Rissman, E.F. (1992) Neural distribution of estrogen receptor immunoreactive cells in the female musk shrew. *Brain Research* 595:189-194.
32. Fortman, M., Dellovade, T.L., Rissman, E.F. (1992) Adrenal contribution to the expression of sexual behavior in the female musk shrew. *Hormones and Behavior* 26:76-86.
33. Fortune, J.E., Eppig, J.J., Rissman, E.F. (1992) Mating stimulates estradiol production by ovaries of the musk shrew (*Suncus murinus*). *Biology of Reproduction* 46:885-891.
34. Rissman, E.F. (1992) Mating induces puberty in the female musk shrew. *Biology of Reproduction* 47:473-477.
35. Dellovade, T.L., King, J.A., Millar, R.P., Rissman, E.F. (1993) Presence and differential distribution of distinct forms of immunoreactive gonadotropin-releasing hormone in the musk shrew brain. *Neuroendocrinology* 58:166-177.
36. Dellovade, T.L., Harada, N., Rissman, E.F. (1994) Distribution and steroid dependence of aromatase enzyme immunoreactivity in limbic nuclei of the female musk shrew brain. *Brain Research* 634:141-149.
37. Dellovade, T.L., Rissman, E.F. (1994) Gonadotropin-releasing hormone immunoreactive cell numbers change in response to social interactions. *Endocrinology* 134:2189-2197.
38. King, J.A., Steneveld, A.A., Curlewis, J.D., Rissman, E.F., Millar, R.P. (1994) Identification of chicken GnRH II in brains of metatherian and early-evolved eutherian species of mammals. *Regulatory Peptides* 54:467-477.
39. Sharma, U.R., Rissman, E.F. (1994) Testosterone implants in specific neural sites activate female sexual behaviour. *J. Neuroendocrinology* 6:423-432.
40. Dellovade, T.L., Hunter, E., Rissman, E.F. (1995) Interactions with males promote rapid changes in gonadotropin-releasing hormone immunoreactive cells. *Neuroendocrinology* 62:385-395.
41. Dellovade T.L., Ottinger, M.A., Rissman, E.F. (1995) Mating alters gonadotropin-releasing hormone cell number and content. *Endocrinology* 136:1648-1657.
42. Dellovade, T.L., Rissman, E.F., Thompson, N., Harada, N., Ottinger, M.A. (1995)

- Co-localization of aromatase enzyme and estrogen receptor immunoreactivity in the preoptic area during reproductive aging. *Brain Research* 674:181-187.
43. Rissman, E.F., Alones, V., Craig-Veit, C.B., Millam, J.R. (1995) Distribution of chicken II gonadotropin-releasing hormone in mammalian brain. *Journal of Comparative Neurology* 357:524-531.
 44. Freeman, L.M., Rissman, E.F. (1996) Neural aromatization and the control of sexual behavior. *Trends in Endocrinology and Metabolism*. 7:11-15.
 45. Rissman, E.F., Harada, N., Roselli, C.E. (1996) Effect of vorozole, an aromatase enzyme inhibitor, on sexual behavior, aromatase activity and the distribution of neural aromatase immunoreactivity. *Journal of Neuroendocrinology* 8:199-210.
 46. Gill, C.J., Rissman, E.F. (1997) Female sexual behavior is inhibited by short- and long-term food restriction. *Physiology and Behavior* 61:387-394.
 47. Li, X., Schwartz, P.E., Rissman, E.F. (1997) Distribution of estrogen receptor β -like immunoreactivity in rat forebrain. *Neuroendocrinology* 66:63-67.
 48. Rissman, E.F., Early, A.E., Taylor, J.A., Korach, K.S., Lubahn, D.B. (1997) Estrogen receptors are essential for female sexual receptivity. *Endocrinology* 138:507-510.
 49. Rissman, E.F., Li, X., King, J.A., Millar, R.P. (1997) Behavioral regulation of GnRH production. *Brain Research Bulletin* 44:459-464.
 50. Rissman, E.F., Wersinger, S.R., Taylor, J.A., Lubahn, D.B. (1997) Estrogen receptor function as revealed by knockout studies: Neuroendocrine and behavioral aspects. *Hormones and Behavior* 31:232-243.
 51. Roemmich, J.N., Li, X., Rogol, A.D. Rissman, E.F. (1997) Food availability affects estrogen receptor immunoreactivity in prepubertal mice. *Endocrinol.* 138:5366-5373.
 52. Tai, V.C., Schiml, P.A., Li, X., Rissman, E.F. (1997) Behavioral interactions have rapid effects on immunoreactivity of prohormone and gonadotropin-releasing hormone peptide. *Brain Research* 772:87-94.
 53. Veney, S.L., Rissman, E.F. (1997) Axon sparing lesions of the medial preoptic area block female sexual behavior. *Brain Research* 756:273-277.
 54. Wersinger, S.R., Sannen, K., Villalba, C., Lubahn, D.B., Rissman, E.F., De Vries, G.J. (1997) Masculine sexual behavior is disrupted in male and female mice lacking a functional estrogen receptor α gene. *Hormones and Behavior* 32:176-183.
 55. Freeman, L.M., Arora, T., Rissman, E.F. (1998) Neonatal androgen affects copulatory behavior in the female musk shrew. *Hormones and Behavior* 34:231-238.
 56. Fugger, H.N., Cunningham, S.G., Rissman, E.F., Foster, T.C. (1998) Sex differences in the activational effects of ER α on spatial learning. *Hormones and Behavior* 34:163-170.
 57. Gill, C.J., Rissman, E.F. (1998) Mast cells in the neonate musk shrew brain: implications for neuroendocrine immune interactions. *Developmental Brain Research* 111:129-136.
 58. Gill, C.J., Wersinger, S.R., Veney, S.L., Rissman, E.F. (1998) Induction of fos-like immunoreactivity in musk shrews after mating. *Brain Research* 811:21-28.
 59. Moffatt, C.A., Rissman, E.F., Shupnik, M.A., Blaustein, J.D. (1998) Induction of neural progesterin receptors by estradiol in estrogen receptor- α gene disrupted mice. *J. Neuroscience* 18(22):9556-9563.

60. Rissman, E.F., Li, X. (1998) Sex differences in mammalian and chicken-II gonadotropin-releasing hormone immunoreactivity in musk shrew brain. *General and Comparative Endocrinology* 112:346-355.
61. Veney, S.L., Rissman, E.F. (1998) Co-localization of estrogen receptor and aromatase enzyme immunoreactivities in adult musk shrew brain. *Hormones and Behavior* 33:151-162.
62. Young, L.J., Wang, Z., Donaldson, R., Rissman, E.F. (1998) Estrogen receptor α is essential for the induction of oxytocin receptor by estrogen. *Neuroreport* 9:933-936.
63. Schiml, P.A., Rissman, E.F. (1999) Cortisol facilitates induction of female sexual behavior in the musk shrew. *Behavioral Neuroscience* 113:166-175.
64. Schiml, P.A., Douris, N., Isaacs, A., Rissman, E.F. (1999) Temporal aspects of female musk shrew sexual behavior. *Journal of Comparative Psychology* 113:85-90.
65. Wersinger, S.R., Haisenleder, D.J., Lubahn, D.B., Rissman, E.F. (1999) Steroid feedback on gonadotropin release and pituitary gonadotropin subunit mRNA in mice lacking a functional estrogen receptor α . *Endocrine* 11:137-143.
66. Fugger, H.N., Foster, T.C., Gustafsson, J-A, Rissman, E.F. (2000) Novel effects of estradiol and estrogen receptor α and β on cognitive function. *Brain Research* 883:258-264.
67. Gore, A.C., Wersinger, S.R., Rissman, E.F. (2000) Effects of female pheromones on GnRH gene expression and luteinizing hormone release in male wild-type and estrogen receptor alpha knockout mice. *J. Neuroendocrinology* 12: 1200-1204.
68. Rissman, E.F., Li, X. (2000) Olfactory bulbectomy blocks mating-induced ovulation. *Biology of Reproduction* 62:1052-1058.
69. Schiml, P.A., Rissman, E.F. (2000) Effects of gonadotropin-releasing hormones, corticotropin-releasing hormone, and vasopressin on female sexual behavior. *Hormones and Behavior* 37: 212-220.
70. Temple, J.L., Rissman, E.F. (2000) Brief re-feeding restores reproductive readiness in food restricted female musk shrews (*Suncus murinus*). *Hormones and Behavior* 38:21-28.
71. Temple, J.L., Rissman, E.F. (2000) Acute re-feeding reverses food restriction induced hypothalamic pituitary-gonadal axis deficits. *Biology of Reproduction* 63:1721-1726.
72. Veney, S.L., Rissman, E.F. (2000) Immunolocalization of androgen receptors and aromatase enzyme in adult musk shrew brain. *Neuroendocrinology* 72:29-36.
73. Veney, S.L., Rissman, E.F. (2000) Steroid implants in the medial preoptic area or the ventromedial nucleus of the hypothalamus activate female sexual behavior in the musk shrew. *J. Neuroendocrinology* 12:1124-1132.
74. Veney, S.L., Rissman, E.F., Freeman, L.M. (2000) Perinatal organization of a sexually dimorphic aromatase enzyme-containing immunoreactive nucleus. *NeuroReport* 11:3409-3412.
75. Wersinger, S.R., Rissman, E.F. (2000) Estrogen receptor α is essential for female-directed chemo-investigatory behavior but not for the pheromone-induced LH surge in male mice. *Journal of Neuroendocrinology* 12:103-110.
76. Wersinger, S.R., Rissman, E.F. (2000) Dopamine activates masculine sexual behavior independent of the estrogen receptor α . *Journal of Neuroscience* 20:4248-4254.
77. Curtin, D., Jenkins, S., Farmer N., Alice C. Anderson, A.C., Haisenleder D.J., Rissman, E.F., Wilson, E., Shupnik, M.A. (2001) Androgen suppression of GnRH-stimulated rat LHB gene transcription occurs through Sp1 sites in the distal GnRH-responsive promoter region.

- Molecular Endocrinology 15(11):1906-1917.
78. Jacob D.A., Temple, J.L., Patisaul H.B., Young, L.J., Rissman, E.F. (2001) Coumestrol antagonizes neuroendocrine actions of estrogen via the estrogen receptor α . Proceedings of the Society for Experimental Biology and Medicine 226:301-306.
 79. Schiml-Webb, P.A., Temple, J.L., Rissman, E.F. (2001) Glucocorticoids affect gonadotropin releasing hormone immunoreactivity in the musk shrew brain. General and Comparative Endocrinology 123:163-169.
 80. Temple, J.L., Fugger, H.N., Li, X., Shetty, S.J., Gustafsson, J-A, Rissman, E.F. (2001) Estrogen receptor β regulates sexually dimorphic neural responses to estradiol. Endocrinology 142:510-513.
 81. De Vries, G.J., Rissman, E.F., Simerly, R.B., Yang, L-Y, Scordalakes, E.M., Auger, C.J., Swain, A., Lovell-Badge, R., Burgoyne, P.S., Arnold, A.P. (2002) A model system for study of sex chromosome effects on sexually dimorphic neural and behavioral traits Journal of Neuroscience 22:9005-9014.
 82. Imwalle, D.B., Scordalakes, E.M., Rissman, E.F. (2002) Estrogen receptor alpha influences socially motivated behaviors. Hormones and Behavior. 42: 484-491.
 83. Rissman, E.F., Heck, A.L., Leonard, J.E., Shupnik, M.A., Gustafsson, J-A (2002) Disruption of estrogen receptor β gene impairs spatial learning in female mice. Proceedings of the National Academy of Science U S A. 99(6):3996-4001.
 84. Schreihofner, D.A., Rowe, D.F., Rissman, E.F., Scordalakes, E.M., Gustafsson, J-Å, Shupnik, M.A. (2002) Estrogen receptor- α (ER α) but not estrogen receptor- β modulates estrogen stimulation of the ER α truncated variant, TERP-1. Endocrinology 143:4196-4202.
 85. Scordalakes, E.M., Shetty, S.J., Rissman, E.F. (2002) Roles of estrogen receptor α and androgen receptor in the regulation of neuronal nitric oxide synthase. Journal of Comparative Neurology. 453(4):336-44.
 86. Temple, J.T., Rissman, E.F. (2002) Nutrition, Reproduction, and Behavior. Progress in Brain Research 141:305-316.
 87. Temple, J.L., Schneider, J.E., Scott, D.K., Korutz, A., Rissman, E.F. (2002) Mating behavior is regulated by acute changes in metabolic fuels. Am J Physiol Regul Integr Comp Physiol. 282(3):R782-90.
 88. Kudwa, A.E., Rissman, E.F. (2003) Double estrogen receptor α and β knockout mice reveal differences in neural estrogen-mediated progesterin receptor induction and female sexual behavior. Journal of Neuroendocrinology 15:978-983.
 89. Micevych, P.E., Rissman, E.F., Gustafsson, Å-J., Sinchak, K. (2003) Estrogen receptor α is required for estrogen-induced μ -opioid receptor internalization. Journal for Neuroscience Research 71(6):802-810.
 90. Patisaul, H.B., Scordalakes, E.M., Young, L.J., Rissman, E.F. (2003) Oxytocin, but not oxytocin receptors, is regulated by estrogen receptor β in the female mouse hypothalamus. Journal of Neuroendocrinology 15(8):787-93.
 91. Scordalakes, E.M., Rissman, E.F. (2003) Aggression in male mice lacking functional estrogen receptor α . Behavioral Neuroscience 117(1):38-45.
 92. Temple, J.L., Scordalakes, E.M., Bodo, C., Gustafsson, J-A, Rissman, E.F. (2003) Lack of functional estrogen receptor β gene disrupts pubertal male mouse sexual behavior.

- Hormones and Behavior 44:427-434.
93. Temple J.L., Millar, R.P., Rissman, E.F. (2003) An evolutionarily conserved form of gonadotropin releasing hormone coordinates energy and reproductive behavior. *Endocrinology* 144:13-19.
 94. Dominguez-Salazar, E. Bateman, H. Rissman, E.F. (2004) Background matters: The effects of estrogen receptor α gene disruption on male sexual behavior are modified by background strain. *Hormones and Behavior* In press.
 95. Kauffman, A.S., Rissman, E.F. (2004) The evolutionarily conserved gonadotropin-releasing hormone II modifies food intake. *Endocrinology* 145:686-691.
 96. Kauffman, A.S., Rissman, E.F. (2004) A novel function for the evolutionarily conserved gonadotropin-releasing hormone II: mediation of energetic status and female reproductive behavior. *Endocrinology* In press.
 97. Scordalakes, E.M., Rissman, E.F. (2004) Aggression and arginine vasopressin immunoreactivity regulation by androgen and estrogen α receptors. *Genes, Brain and Behavior* 3:20-26.
 98. Kudwa A.E., Gustafsson, J-Å, Rissman E.F. Estrogen receptor β modulates estradiol induction of progesterin receptor immunoreactivity in male, but not in female, mouse medial preoptic area. *Endocrinology* in Press.
 99. Kudwa, A.E., Dominguez-Salazar, E., Cabrera, D.M., Sibley, D.R., Rissman E.F. Dopamine D5 receptor modulates male and female sexual behavior in mice. *Psychopharmacology* Accepted pending revision.
 100. Imwalle, D.B., Gustafsson, J-Å, Rissman, E.F. Lack of functional estrogen receptor β influences anxiety behavior and serotonin content in female mice *Physiology and Behavior* Under Review.
 101. Kudwa A.E., Wills, A., Harada, N., Honda S-I, Rissman E.F. Phytoestrogens influence the impact of aromatization and sex on estradiol-induced neural progesterin receptors. *Society for Experimental Biology and Medicine* Under Review.
 102. Imwalle, D.B., Bateman H., Wills, A., Harada, N., Honda S-I, Rissman E.F. Developmental exposure to estradiol improved spatial learning in adult mice. *Hormones and Behavior* Under Review.
 103. Roemmich, J.N., Rogol, A.D., Hale, J.E., Nagy, T.R., Gower, B.A., Lubahn, D.L., Rissman, E.F. Influence of estrogen receptor-alpha function and exercise on somatic growth and bone mineral accrual. *Endocrinology* Under Review.

Reviews, Introductions, Book Chapters:

- Rissman, E.F. (1988) Reproduction: A personal perspective from the Rutgers Institute of Animal Behavior. *Contemporary Psychology* 33:680-681.
- Rissman, E.F. (1991) Behavioral endocrinology of the female musk shrew. *Hormones and Behavior* 25:125-127.
- Rissman, E.F. (1995) An alternative animal model for the study of female sexual behavior. *Current Directions in Psychological Science* 4:6-10.
- Rissman, E.F. (1996) Behavioral regulation of gonadotropin-releasing hormone. *Biology of Reproduction* 54:413-419.
- Rissman, E.F. (1997) Behavioral regulation of gonadotropin-releasing hormone. In "GnRH

- Neurons: Gene to Behavior" edited by Ishwar Parhar and Yasuo Sakuma. Brain Shuppan Publishers, Tokyo pp. 343-366.
- Schimpl, P.A., Wersinger, S.R., Rissman, E.F. (1999) Behavioral activation of the female neuroendocrine axis. In "Reproduction in Context" edited by Kim Wallen and Jill Schneider. MIT Press pp 445-472.
- Rissman, E.F., Wersinger, S.R., Fugger H.N., Foster, T.C. (1999) Sex with knockout models : Behavioral studies of estrogen receptor α . Brain Research 835:80-90.
- Scordalakes, E.M., Imwalle, D.B., Rissman, E.F. (2002) Oestrogen's masculine side: Mediation of mating in male mice. Reproduction 124:331-338.
- Arnold, A.P., Rissman, E.F., De Vries, G.J. (2003) Two perspectives on the origin of sex differences in the brain. Annals of the New York Academy of Sciences 1007:1-13
- Rissman, E.F. (2004) Thinking outside the "mouse" box: the importance of comparative laboratory animal models in research. ILAR Journal 45(1):1-3.
- Burns-Cusato, M. B., Scordalakes, E.M., Rissman E.F. (2004) Of mice and missing data: What we know (and need to learn) about sexual behavior in male mice Physiology and Behavior In press.
- Kauffman, A.S., Rissman E.F. (2004) Invited chapter in Knobil and Neill: Physiology of Reproduction. 3rd edition. Ed. JD Neill "Neuroendocrine control of the ovarian cycle in reflex ovulators." In preparation.

Press Releases:

"The genetics of Venus and Mars" *Nature Neuroscience* Highlights Vol 3: 917 (2002).

"Estrogen and Learning" *Science* Editor's Choice Vol 296: 15-17 (2002).

"Gonadotropin-Releasing hormone II: Is this neuropeptide important for mammalian reproduction?" *Endocrinology* guest review by Ei Terasawa. Vol. 144(1):3-4 (2003)

Publications (Abstracts since '90)

- Dellovade, T.L., Blaustein, J.D., Rissman, E.F. (1990) Distribution of estrogen receptors in the brain of the female musk shrew: an immunocytochemical study. Soc Neurosci Abstr 16(1):76.
- Dellovade, T.L., Rissman, E.F. (1991) Neural distribution of estrogen receptor and LHRH immunoreactivity associated with puberty in the female musk shrew. Soc Neurosci Abstr 17(2):1410.
- Ottinger, M.A., Thompson, N., Dellovade, T., Harada, N., Rissman, E.F. (1991) Aging and preoptic area aromatase immunoreactivity in male Japanese quail. Soc Neurosci Abstr 17(2):1409.
- Refinetti, R., Rissman, E., Menaker, M. (1991) Circadian organization of sex behavior in pairs of tau-mutant hamsters. Federation of Am. Soc. for Experimental Biology Journal 5(5): 4378.
- Rissman, E.F., Dellovade, T.L. (1992) Social/behavioral regulation of GnRH-ir. Soc Neurosci Abstr 18(1):117.
- Dellovade, T.L., Alones, V., Rissman, E.F. (1993) Anatomically and biochemically distinct populations of GnRH-ir neurons are associated with different neurotransmitters. Soc Neurosci Abstr 19(2):1397.

- Sharma, U.R., Alones, V., Rissman, E.F. (1993) Testosterone implants into the medial preoptic area induce sexual behavior in the female musk shrew. *Soc Neurosci Abstr* 19(1):587.
- Gill, C.J., King, J.A., Millar, R.P., Rissman, E.F. (1995) Development of two GnRH systems in neuronal and immune cells of a mammal. *Soc Neurosci Abstr* 21(3):1897.
- Rissman, E.F., Cholbi, W.J. (1995) Interactive effects of social cues and steroids on gonadotropin-releasing hormone immunoreactive cell numbers. *Soc Neurosci Abstr* 21(3):1892.
- Freeman, L.M., Rissman, E.F. (1996) Sex difference in striated penile muscles and innervating motoneurons in the musk shrew. *Soc Neurosci Abstr* 22(1):154.
- Gill, C.J., Cholbi, W.J., Rissman, E.F. (1996) Mating-induced fos expression in male and female musk shrews. *Soc Neurosci Abstr* 22(1):154.
- Roemmich, J.N., Li, X., Rogol, A.D., Rissman, E.F. (1996) Time course of the sexually dimorphic response in estrogen receptor immunoreactivity in underfed prepubertal mice. *Soc Neurosci Abstr* 22(1):86.
- Roemmich, J.N., Li, X., Rogol, A.D., Rissman, E.F. (1996) Sexually dimorphic response in estrogen receptor immunoreactivity in underfed prepubertal mice. *Int Endo Abstr* 10(1):531.
- Roemmich, J.N., Li, X., Rogol, A.D., Rissman, E.F. (1996) Underfeeding influences tyrosine hydroxylase (TH) and TH plus estrogen receptor immunoreactivities in underfed prepubertal mice. *Int Endo Abstr* 10(1):531.
- Tai, V.C., Muske, L.E., Rissman, E.F. (1996) Behavioral interactions cause a decline in gonadotropin-releasing hormone immunoreactive cell numbers. *Soc Neurosci Abstr* 22(2):1343.
- Veney, S.L., Rissman, E.F. (1996) Co-distribution of estrogen receptor and aromatase immunoreactive neurons in the male musk shrew. *Soc Neurosci Abstr* 22(1):155.
- De Vries, G.J., Sannen, K., Rissman, E.F. (1997) Steroid-responsive vasopressin innervation in the brain of estrogen receptor alpha minus mice. *Soc Neurosci Abstr* 23(2):2139.
- Freeman, L.M., Arora, T., Rissman, E.F. (1997) Role of testosterone in sexual differentiation of the musk shrew. *Soc Neurosci. Abstr* 23(1):797.
- Fugger, H.N., Schiml, P.A., Rissman, E.F., Foster, T.C. (1997) Characterization of spatial behavior and hippocampal electrophysiology in male estrogen receptor α minus mice. *Soc Neurosci. Abstr* 23(2):2124.
- Moffatt, C.A., Rissman, E.F., Blaustein, J.D. (1997) Induction of neural progesterone receptors by estradiol in estrogen receptor α gene disrupted mice. *Soc Neurosci Abstr* 23(2):2139.
- Panzica, G.C., Viglietti-Panzica, C., Dellovade, T., Rissman, E., Harada, N., Thompson, N., Ottinger, M.A. (1997) Neuronal plasticity in the medial preoptic nucleus of the aged male Japanese quail: a morphometric study. *Soc Neurosci Abstr* 23(1):799.
- Roemmich, J.N., Rogol, A.D., Hale, D.B., Lubahn, R.B., Rissman, E.R. (1997) Bone strain independently augments bone mineral in pubertal mice with the disrupted estrogen receptor gene. 19th Annual Meeting of the Am. Soc. for Bone and Mineral Research, Cincinnati, OH Sept.
- Schiml, P.A., Rissman, E.F. (1997) A potential facilitatory role of glucocorticoids in female reproduction. *Soc Neurosci Abstr* 23(2):1852.
- Veney, S.L., Rissman, E.F. (1997) Neural testosterone implants activate female sexual behavior. *Soc Neurosci Abstr* 23(2):1853.

- Wersinger, S.R., Lubahn, D.B., Rissman, E.F. (1997) The number of GnRH-immunoreactive neurons in female mice lacking a functional estrogen receptor α . Soc Neurosci Abstr 23(2):1505.
- Cho, M.M, Li, X., Rissman, E.F. (1998) Gonadal steroids modulate immunoreactivity of two forms of GnRH in the female musk shrew brain. Soc Neurosci Abstr 24(1):366.
- Fugger, H.N., Rissman, E.F., Foster, T.C. (1998) Estrogen receptor α is not required for estradiol's effects on inhibitory avoidance behavior in female mice. Soc Neurosci. Abstr 24(2):2121.
- Roemmich, J.N, Williams, E.N., Rogol, A.D., Rissman, E.F. (1998) Influence of underfeeding on tyrosine hydroxylase (TH) and estrogen receptor immunoreactivities in prepubertal mice. Soc. Endo Abstr 521.
- Schimpl, P.A., Li, X., Rissman, E.F. (1998) The effects of intraventricular infusion of GnRH on female sexual behavior. Soc Neurosci Abstr 24(1):948.
- Simpson, E.M., Mahaffey, C.L., Young, K.A., Hawes, N., Chang, B. Saionz, J.R., Smith, R.S., Rissman, E.F., Bronson, R.T., Nelson, R.J., Berry, M.L. (1998) Fierce; a novel mouse mutant with developmental, neurological and behavioral abnormalities is deleted for tailless. Soc Neurosci Abstr 24(1):780.
- Wersinger, S.R., Haisenleder, D.J., Rissman, E.F. (1998) Steroid negative feedback effects on plasma luteinizing hormone and gonadotropin subunit mRNA in male and female mice lacking a functional estrogen receptor α . Society of Endo Abstr 112.
- Veney, S.L., Rissman, E.F. (1998) Co-immunolocalization of androgen receptor and aromatase immunoreactivities in the musk shrew brain. Soc Neurosci Abstr 24(1):200.
- Wersinger, S.R., Barron, K.I., Rissman, E.F. (1998) Estradiol decreases proGnRH immunoreactivity in female wildtype but not estrogen receptor a knockout mice. Soc Neurosci Abstr 24(2):1607.
- Temple, J.L., Rissman, E.F. (1999) Differences in estrogen receptor immunoreactivity and pro-GnRH immunoreactivity in the hypothalamus of food restricted female musk shrews. Soc Neurosci Abstr 25(1):1189.
- Veney, S.L., Rissman, E.F. (1999) Neural dihydrotestosterone implants partially facilitate female musk shrew sexual behavior. Soc Neurosci Abstr 25(1):1189.
- Arnold, A.P., De Vries, G.J., Rissman, E.F., Simerly, R.B., Yang, L.-Y., Lovell-Badge, R., Burgoyne, P.S. (2000) Sex chromosomal influences on sexual differentiation of mouse brain and behavior. Soc Neurosci Abstr 26(1):594.
- Fugger, H.N., Temple, J.L., Li, X., Gustafsson, J.A., Rissman, E.F. (2000) Estrogen receptor β modifies neural sensitivity to estradiol. Soc Neurosci Abstr 26(2):1447.
- Hall, J.H., Dellovade, T.D., Rissman, E.F., Tobet, S.A. (2000) Hormone receptor dependence of calbindin expression in the murine preoptic area/anterior hypothalamus. Soc Neurosci Abstr 26(1):922.
- Panzica, G.C., Verze, L., Viglietti-Panzica, C., Rissman, E.F. (2000) Modifications of NOS-immunoreactive system in estrogen receptor alpha knock-out male mice. Soc Neurosci Abstr 26(1):127526(2):1447..
- Sinchak, K., Rissman, E. Macias, L., Micevych, P.E. (2000) Estrogen-induced μ -opioid receptor internalization requires estrogen receptor α . Soc Neurosci Abstr 26(1):635.

- Scordalakes, E.M., Perkins, J., Rissman, E.F. (2000) Regulation of mouse masculine sexual behavior by nitric oxide. *Soc Neurosci Abstr* 26(1):1278.
- Temple, J.L., Fugger, H.N., Li, X., Gustafsson, J.-Å., Rissman, E.F. (2000) Estrogen receptor β modifies hypothalamic pituitary gonadal axis sensitivity to negative feedback. *Soc Neurosci Abstr* 26(2):1446.
- Amory, E.A., Gustafsson, J.-Å., Rissman, E.F. (2001) Neuroendocrine bases of subfertility in estrogen receptor β knockout mice. Society for Neuroscience.
- Kudwa, A.E., Schank, J., Gustafsson, J.-Å., Rissman, E.F. (2001) The role of estrogen receptors α and β and androgen receptor in regulation of progesterin receptor in hypothalamic nuclei. Society for Neuroscience
- Moody, K.M., Scordalakes, E.M., Rissman, E.F., De Vries G.J. (2001) Vasopressin expression in estrogen receptor alpha and androgen receptor knockout mice and double knockout mice. Society for Neuroscience.
- Rissman, E.F., Heck, A.L., Leonard, J.E., Gustafsson, J.-Å. (2001) Role for estrogen receptor β in spatial learning. Society for Neuroscience.
- Scordalakes, E.M., Rissman, E.F. (2001) Use of genetic mouse models to determine the contributions of estrogen receptor-alpha and androgen receptor to masculine sexual behavior. Society for Neuroscience.
- Temple, J.L., Rissman, E.F. (2001) Glycolysis and fatty acid oxidation are both required for refeeding induced restoration of mating behavior in the female musk shrew. Society for Neuroscience.
- Roemmich, J.N., Rogol, A.D., Hale, J.E., Nagy, T.R., Gower, D.A., Lubahn, D.B., Rissman, E.F. (2002) Exercise augments bone mineral independently of the estrogen receptor-alpha in female mice. American College of Sports Medicine.
- Schreihof, D.A., Rowe, D.F., Rissman, E.F., Gustafsson, J.-Å., Shupnik, M.A. (2002) Estrogen Receptor- α (ER α) but not Estrogen Receptor- β modulates estrogen stimulation of the ER α truncated variant TERP-1, and is not critical for basal expression. Society for Endocrinology Abst.
- Kudwa, A.E., Erisir, A., Gustafsson, J.-Å., Rissman, E.F. (2002) Sex differences in progesterin receptor induction persist in the ER α β KO mouse. Society for Endocrinology Abst.
- Rissman, E.F., Heck, A.L., Burke, L.G., De Vries, G.J., Rattigan, A., Ojarikre, O.A., Arnold, A.P., Burgoyne, P.S. (2002) Y Chromosome Influences on Mouse Aggressive and Copulatory Behavior. Society for Neuroscience.
- Kudwa, A.E., Harada, N., Honda, S-I, Rissman, E.F. (2002) Dietary Soy Phytoestrogens Modulate Progesterin Receptor Induction. Society for Neuroscience.
- Scordalakes, E.M., Kudwa, A.E., Rissman, E.F. (2002) Estrogen Receptor β Co-localization with Arginine Vasopressin, Oxytocin and Corticosterone Releasing Hormone in Mouse Brain. Society for Neuroscience.
- Chaban, V.V., Rissman, E.F., Micevych, P.E. (2003) Rapid effect of estradiol on $[Ca^{2+}]_i$ in DRG neurons requires estrogen receptor- α . Society for Neuroscience.
- Kauffman A.S., Rissman E.F. (2003) Effects of gonadotropin-releasing hormones on mating behavior in female mice. Society for Neuroscience.
- Kudwa, A.E., Harada, N., Honda, S-I, Rissman, E.F. (2003) Dietary Soy Phytoestrogens Modulate

Presentations at National and International Scientific Meetings (since '95)

- Cholbi, W.J., Dellovade, T.L., Rissman, E.F. Male-induced rapid changes in numbers of gonadotropin-releasing hormone immunoreactive cells are likely to be caused by increased synthesis of mature GnRH peptide. Poster presented at the Conference on Reproductive Behavior, Boston, MA June 1995.
- Veney, S.L., Rissman E.F. Lesions of the medial preoptic area block female sexual behavior. Poster presented at the Conference on Reproductive Behavior, Boston, MA June 1995.
- Gill, C.J., Rissman, E.F. Inhibition of sexual behavior in food restricted female musk shrews. Poster presented at the Conference on Reproductive Behavior, Boston, MA June 1995.
- Veney, S.L., Rissman, E.F. Co-distribution of estrogen receptor and aromatase immunoreactive neurons in adult mammalian brain. Poster presented at Inter. Conf. on Hormones, Brain and Behavior; Torino, Italy August, 1996.
- Early, A.H., Rissman, E.F. Numbers of oxytocin-immunoreactive neurons are affected by sex and genotype in estrogen receptor α minus mice. Poster presented at the Soc. for Behavioral Neuroendocrinology meeting; Baltimore, MD May 1997.
- Freeman, L.M., Arora, T., Rissman, E.F. Role of testosterone in sexual differentiation of the musk shrew. Poster presented at the Soc. for Behavioral Neuroendocrinology meeting; Baltimore, MD, May 1997.
- Rissman, E.F., Wersinger, S., Early, A.H., Li, X. What the estrogen receptor α minus mouse can teach us about behavioral neuroendocrinology: advantages and limitations of a genetically engineered model system. Talk presented at the Society for Behavioral Neuro-endocrinology meeting; Baltimore, MD, May 1997.
- Wersinger, S., Rissman, E.F. Chemosensory cues from male bedding induce fos-like immunoreactivity in the forebrain of wild type and estrogen receptor α minus mice. Poster at the Society for Behavioral Neuroendocrinology meeting; Baltimore, MD May 1997.
- Fugger, H.N., Cunningham, S.G., Rissman, E.F., Foster, T.C. Characterization of spatial discrimination behavior in male and female wildtype and estrogen receptor α knockout mice. Poster at the Society for Behavioral Neuroendocrinology meeting; Atlanta, GA June 1998.
- Schimpl, P.A., Rissman, E.F. Pacing does not alter sexual behavior or fertility in female musk shrews. Poster at the Society for Behavioral Neuroendocrinology meeting; Atlanta, GA June 1998.
- Veney, S.L., Rissman, E.F. Neural aromatization in the medial preoptic area is necessary for the expression of female musk shrew sexual behavior. Poster at the Society for Behavioral Neuroendocrinology meeting; Atlanta, GA June 1998.
- Fugger, H.N., Foster, T.C., Rissman, E.F. Estradiol facilitates retention on an inhibitory avoidance task in female mice lacking estrogen receptor α . Poster at the Society for Behavioral Neuroendocrinology meeting; Charlottesville, VA June 1999.
- Schimpl, P.A., Rissman, E.F. The effects of ICV infusion of corticotropin-releasing hormone and vasopressin on sexual behavior in female musk shrews. Poster at the Society for Behavioral Neuroendocrinology meeting; Charlottesville, VA, June 1999.

- Temple, J.L., Rissman, E.F. Brief re-feeding bout restores sexual behavior in female musk shrews. Poster at the Society for Behavioral Neuroendocrinology meeting; Charlottesville, VA, June 1999.
- Micevych P, Rissman E, Macias L and Sinchak K Estrogen receptor α deficient mice do not internalize μ -opioid receptors in response to estrogen. Poster at the Society for Behavioral Neuroendocrinology meeting; Madrid, Spain August 2000.
- Scordalakes, E and Rissman, E.F. The role of estrogen and androgen receptors in the activation of masculine sexual behavior in C57/BL6 mice. Poster at the Society for Behavioral Neuroendocrinology meeting; Madrid, Spain August 2000.
- Temple, J.L., Rissman, E.F. Effects of food restriction and re-feeding on mating behavior in the female musk shrew are independent of changes in peripheral testosterone. Poster at the Society for Behavioral Neuroendocrinology meeting; Madrid, Spain August 2000.
- Amory, E.A., Rissman, E.F. Mating induced neurogenesis in the adult female mouse olfactory bulb. Society for Behavioral Neuroendocrinology meeting; Scottsdale, Arizona June 2001.
- Imwalle, D.B., Rissman, E.F. Neonatal estradiol benzoate treatment improves spatial learning in adult female but not male mice. Society for Behavioral Neuroendocrinology meeting; Scottsdale, Arizona June 2001.
- Kudwa, A.E., Schank, J., Honda, S-I., Rissman, E.F. Aromatase gene modulates sex differences in progesterone receptor induction by estradiol. Society for Behavioral Neuroendocrinology meeting; Scottsdale, Arizona June 2001.
- Scordalakes. E.M., Rissman, E.F. Estrogen receptor α regulates aggression and gender recognition in C57BL/6J male mice. Society for Behavioral Neuroendocrinology meeting; Scottsdale, Arizona June 2001.
- Temple. J.L., Rissman, E.F. Glucose is necessary, but not sufficient for re-feeding induced restoration of mating behavior. Society for Behavioral Neuroendocrinology meeting; Scottsdale, Arizona June 2001.
- Hillsman, K.D., Rissman, E.F. Effects of estradiol and SERM LY353381, on neuronal density in the female mouse brain Society for Behavioral Neuroendocrinology meeting; Amherst, MA June 2002.
- Imwalle, D.B., Gustafsson, J-A., Rissman, E.F. Estrogen receptor beta is required for anxiolytic behavior in female mice. Society for Behavioral Neuroendocrinology meeting; Amherst, MA June 2002.
- Kudwa, A.E., Erisir, A, Gustafsson, J-A., Rissman, E.F. Dopamine facilitates display of lordosis behavior in male mice. Society for Behavioral Neuroendocrinology meeting; Amherst, MA June 2002.
- Scordalakes, E.M., Temple, J.T., Gustafsson, J-Å, Rissman, E.F. Estrogen receptor β regulates pubertal maturation in male mice. Society for Behavioral Neuroendocrinology meeting; Amherst, MA June 2002.
- Temple, J.L., Rissman, E.F. Administration of chicken-gonadotropin releasing hormone-II reinstates mating behavior after food restriction in the female musk shrew. Society for Behavioral Neuroendocrinology meeting; Amherst, MA June 2002.
- Bodo, C., Gustafsson J-Å, Rissman E.F. Estrogen receptor- β is involved in behavioral puberty in male mice. Society for Behavioral Neuroendocrinology meeting; Cincinnati, OH June 2003.

- Kauffman, A.S., Rissman E.F. Effects of gonadotropin-releasing hormones on feeding and satiation in musk shrews. Society for Behavioral Neuroendocrinology meeting; Cincinnati, OH June 2003.
- Kudwa, A.E., Cabrera, D., Sibley, D.R, Rissman, E.F. Characterization of sexual behavior in dopamine D5 receptor null mutant mice. Society for Behavioral Neuroendocrinology meeting; Cincinnati, OH June 2003.
- Scordalakes, E.M., Rissman, E.F. Central administration of apomorphine facilitates sexual behavior in ER α KO male mice. Society for Behavioral Neuroendocrinology meeting; Cincinnati, OH June 2003.

Invited Lectures at Universities and Other Institutions

- 1987: Rutgers University, Dept. of Biology, New Brunswick, NJ
- 1988: Smithsonian National Zoo, Washington DC
University of Massachusetts, Amherst, Dept. of Neuroscience and Behavior
- 1990: Emory University, Dept. of Psychology, Atlanta, GA
- 1991: University of California at Santa Barbara, Dept. of Psychology
Michigan State University, Dept. of Psychology and Neuroscience Program, East Lansing MI
Syntex Inc., Dept. of Pharmacology, Palo Alto, CA
University of California at Berkeley, Dept. of Psychology
- 1992: Rutgers University, Institute of Animal Behavior, Newark, NJ
University of Georgia, Neuroscience Program, Athens, GA
- 1994: William and Mary, Dept. of Psychology, Williamsburg, VA
- 1995: Johns Hopkins University, Dept. of Psychology, Baltimore, MD
University of Michigan, Reproductive Sciences Program, Ann Arbor, MI
University of Wisconsin, Psychology Department, Madison, WI
- 1996: University of California at Davis, Animal Behavior Dept.
Jackson Laboratory, Genetics Study Group, Bar Harbor, ME
- 1997: New York Academy of Sciences, NY, NY
CUNY Hunter College, Psychology Department, NY, NY
- 1998: University of North Carolina, Cell and Molecular Physiology Dept., Chapel Hill, NC
University of Arizona, Physiology Dept., Phoenix, AZ
University of Arizona West, Biology Dept., Phoenix, AZ
Karolinska Institute, Dept. of Medical Nutrition, Huddinge, Sweden
- 1999: Ohio State University, Dept. of Evolution, Ecology, and Organism Biology, Columbus, OH
Miami University, Neuroscience Program, Miami, OH
- 2000: North Carolina State University, Keck Center for Animal Behavior, Raleigh, NC
University of Kentucky Medical School, Pharmacology Department, Lexington, KY
- 2001: Brigham Young University, Neuroscience Program, Provo, UT
University of California, Berkeley, Biopsychology Program, Berkeley, CA
University of Maryland, Program in Molecular and Cell Biology, College Park, MD
Emory University, Psychology Dept. Atlanta, GA
Cambridge University, Babarham Institute, Mouse Genetics Group, Cambridge, England

- Columbia University, Cell Biology and Neuroanatomy Department, NY, NY.
College of William and Mary, Biology Department, Williamsburg, VA
- 2002: Wake Forest Medical School, Dept. of Comparative Medicine, Wake Forest, NC
UNAM Centro de Neurobiología, Querétaro, México
Center of Excellence on Neurodegenerative Diseases, University of Milan, Italy
INSERM, Université Louis Pasteur, CEDEX-Strasbourg, France
Primal Inc. Seattle WA.
- 2003: Cornell University, Dept of Psychology, Ithaca, NY
Old Dominion University, Dept of Biology, Hampton Roads, VA
University of Massachusetts, Center for Neuroendocrine Studies, Amherst, MA
North Carolina State University, Department of Zoology, Raleigh, NC
Duke University, Psychological and Brain Sciences, Durham, NC.
- 2004: Dartmouth Medical School, Physiology Department, Hanover, NH