

JON E. LEVINE

Wisconsin National Primate Research Center
University of Wisconsin--Madison
1220 Capitol Court
Madison, WI 53715-1237
Telephone: (608) 263-3500, Fax: (608) 265-2067
Email: levine@primate.wisc.edu

Education

University of Illinois, Champaign-Urbana, Illinois 1982 – Ph.D.
Oberlin College, Oberlin, Ohio 1976 – B.A.

Major Research Areas

Neuroscience, Endocrinology, Reproductive Biology

Research Interests

Molecular, cellular and integrative physiology of hypothalamic peptidergic neurons and neuropeptide receptors; steroid hormone actions in the central nervous system; neuroendocrine aspects of reproduction

Awards, Professional Appointments

Director, Wisconsin National Primate Research Center, Madison, Wisconsin (2010-present)
Professor of Neuroscience, University of Wisconsin—Madison (2010-present)
Professor of Neurobiology and Physiology, Northwestern University (1997-2010)
Director, NIH/NICHD T32 HD07068 Training Program in Reproductive Biology (1991-present)
Editor-in-Chief, *Frontiers in Neuroendocrinology*, 2002-present
President, American Neuroendocrine Society (1998-present)
Director, Program in Biological Sciences, Northwestern University (1999-2006)
Member, Undergraduate Biology Program Advisory Board (1998-present)
Member, Scientific Advisory Board, Oregon National Primate Research Center (2008-present)
Endocrine Society, Basic Science Chair, Annual Meeting Steering Committee, 2009
Associate Editor, *Endocrinology* (1998-2003)
Member, Scientific Advisory Board, World Book Science Year, Chicago, IL (2001-03)
Faculty Teaching Honor Roll, Associated Student Government, Northwestern University (2003)
Associate Professor of Neurobiology and Physiology, Northwestern University (1990-1997)
Member of Study Section: Population Research Committee, NIH/NICHD (1995-1999)
Faculty Teaching Honor Roll, Associated Student Government, Northwestern University (1995)
NIH/NICHD Research Career Development Award (1989-1994)
Eli Lilly Foundation Teaching Scholar (1985)
Awardee, Searle Foundation Leadership Fund for the Life Sciences (1984)
Assistant Professor of Neurobiology and Physiology, Northwestern University (1984-1990)

Pre- and Postdoctoral:

NIH/NICHD Postdoctoral Trainee in Reproductive Biology,
 Oregon Regional Primate Research Center, Beaverton, Oregon (1982-1984)
 Postdoctoral Fellow, Oregon Regional Primate Research Center, Beaverton, Oregon (1982-1984)
 NIH/NICHD Predoctoral Trainee in Reproductive Biology,
 University of Illinois, Urbana, Illinois (1979-1982)
 Doctoral Research Program, Neural and Behavioral Biology Program, University of Illinois,
 Urbana, Illinois (1977-1982)
 Research Technician, Department of Pharmacology, University of Iowa Medical College, Iowa
 City, Iowa (1976-1977)

Teaching Experience

Northwestern University

Fall 1985	412-D05	Methods in Neuroscience
Spring 1985	412-C60	Neuroendocrinology
Spring 1987	412-C60	Neuroendocrinology
Spring 1988	412-D60	Neuroendocrinology
Spring 1990	412-D60	Neuroendocrinology
Winter 1986	412-D06	Advanced CNS Physiology
Winter 1986	412-C06	CNS Physiology
Winter 1987	412-D06	Advanced CNS Physiology
Winter 1988	412-C06	CNS Physiology
Winter 1989	412-C06	CNS Physiology
Winter 1989	412-D06	Advanced CNS Physiology
Fall 1991	409-C25	Animal Physiology
Fall 1993	409-C25	Animal Physiology
Fall 1994	409-C25	Animal Physiology
Winter 1994	409-C56	Vertebrate Endocrinology
Fall 1995	409-C25	Animal Physiology
Winter 1995	409-C56	Vertebrate Endocrinology
Winter 1996	409-C56	Vertebrate Endocrinology
Winter 1997	409-C56	Vertebrate Endocrinology
Spring 1997	409-D88	Mammalian Reproduction
Winter 1998	409-C56	Vertebrate Endocrinology
Fall 1998	409-D88	Mammalian Reproduction
Winter 1999	409-C56	Vertebrate Endocrinology
Winter 2000	409-C56	Vertebrate Endocrinology
Spring 2000	409-D88	Mammalian Reproduction
Winter 2001	409-C56	Vertebrate Endocrinology
Winter 2002	409-C56	Vertebrate Endocrinology
Spring 2003	409-D88	Mammalian Reproduction
Winter 2004	409-C56	Vertebrate Endocrinology
Winter 2005	409-C56	Vertebrate Endocrinology
Fall 2006	409-D88	Mammalian Reproduction
Winter 2006	409-C56	Vertebrate Endocrinology
Winter 2007	409-C56	Endocrinology
Winter 2008	409-356	Endocrinology
Winter 2009	409-356	Endocrinology
Spring 2009 (2 lectures)	NUIN	Great Experiments in Neuroscience

Departmental, College, University Service

Secretary to the Faculty
 Freshman Advisor
 Graduate Admissions Committee
 Faculty Search Committee
 Program Review Committee
 Chair, Faculty Search Committee (1995-1998, 2000, 2003, 2004, 2006, 2008, 2009)
 Professional Relations Committee (1995)
 Department Seminar Committee (2003-2004)
 WCAS General Studies Committee (1998-2000)
 Board Member, Program in Biological Sciences (1997-present)
 Executive Committee, Interdepartmental Graduate Program in Biological Sciences (2003-2004)
 Chairman, Graduate Admissions Committee, Interdepartmental Graduate Program in Neuroscience
 Chairman, Graduate Admissions Committee, Northwestern University Institute for Neuroscience
 University Animal Care and Use Committee
 Radiation Safety Committee
 Fellowship and Scholarship Committee, The Graduate School
 University Research Grants Review Committee
 Chair, Committee on Animal Resources
 University Faculty Reappointment, Promotion, Tenure, and Dismissal Appeals
 Ad hoc WCAS Committees for Promotion and Tenure (several appointments 2000-2006)
 Ad hoc University Program Review Subcommittee (2006)
 University Program Review Committee (2007-present)

Training Responsibilities

Director and Preceptor, Training Grant in Reproductive Biology, Northwestern University

Visiting Scientists

Sandra J. Legan, Professor, Department of Physiology, University of Kentucky (1989)
 Cheryl Sisk, Professor, Department of Zoology, Michigan State University (1995)

Post-Doctoral Fellows/Research Assistant or Associate Professors

Tarja Porka-Heiskanen, Assistant Professor, Department of Physiology, University of Helsinki, Finland (1992-1993)
 Janice H. Urban, Professor, Department of Physiology and Biophysics, Finch University Chicago Medical School (1989-1996)
 Danielle Gelinias, Scientist, Genetics Institute, Amherst, Massachusetts (1994-1995)
 Lisa Henry, Postdoctoral Fellow (2005-2006) Women's Health Research Institute
 Lynette Gerhold, Postdoctoral Fellow (2006-2007), Director of Biological Imaging Center, University of Chicago, Chicago, IL
 Teresa Horton, Research Associate Professor, Northwestern University (current)
 Maricedes Acosta-Martinez, Assistant Professor, Department of Physiology and Biophysics, SUNY-Stony Brook, NY

Thesis Advisor, Doctoral Students (Degree Completed)

- Dr. Frank J. Strobl, Ph.D. in Neurobiology & Physiology (1990) Director of Scientific Affairs at Therakos, Inc., a Johnson & Johnson company
- Dr. John Meredith, Ph.D. in Neuroscience (1992), Principal Scientist at Schering-Plough Research Institute
- Dr. Angela Bauer-Dantoin, Ph.D. in Neuroscience (1992), Professor of Human Biology, University of Wisconsin-Green Bay, Green Bay, WI
- Dr. Leslie Besecke, Ph.D. in Neurobiology & Physiology (1994) Principal Scientist, Department Of Endocrine Pharmacology, Abbott Pharmaceuticals, Abbott Park, IL
- Dr. Andrew Wolfe, Ph.D. in Neuroscience (1994), Assistant Professor, Department of Pediatrics, Johns Hopkins University, Baltimore, MD
- Dr. Sarah Leupen, Ph.D. in Neuroscience (1998), Assistant Professor, Department of Biology, Ohio Wesleyan University, Delaware, OH
- Dr. Patrick Chappell, Ph.D. in Neuroscience (1999), Assistant Professor, Department of Zoology, Oregon State University, Corvallis, OR
- Dr. Ming Xu, Ph.D. in Neuroscience (2000), Scientist, Johnson & Johnson, NJ
- Dr. Glenn Harris, Ph.D. in Neuroscience (2001), Assistant Professor, Department of Biology, Virginia State University
- Dr. Jennifer Hill, Ph.D. in Neuroscience (2002), Assistant Professor, Department of Physiology and Pharmacology, University of Toledo, Toledo, OH
- Dr. Johanna Schneider, Ph.D. in Interdepartmental Biological Sciences (2003), Postdoctoral Fellow, University of Virginia, Charlottesville, VA
- Dr. Nicole Sleiter, Ph.D. in Interdepartmental Biological Sciences (2004), Assistant Professor, Lake Forest College and Oakton Community College, Lake Forest, IL
- Dr. Eileen Bayer, Ph.D. in Interdepartmental Biological Sciences (2005), Postdoctoral Fellow, Loyola University Medical School, Maywood, IL
- Dr. Wenyu Huang, Ph.D. in Neuroscience (2007), Endocrine Fellow, Feinberg School of Medicine, Northwestern University, Chicago, IL
- Dr. Melissa Chamberlain, Ph.D. in Interdepartmental Biological Sciences (2008)
(on maternity leave)
- Dr. Zhen Zhou, Ph.D. in Interdepartmental Biological Sciences (2010), Postdoctoral fellow in the Clinical Chemistry Training Program at Washington University, St. Louis, MO

Predoctoral Students Currently Advising:

- Ms. Cheryl Park (NUIN)
- Ms. Marianna Jimenez (NUIN)
- Ms. Sharon Dubois (NUIN)
- Ms. Ruth Quintana (NUIN)

Thesis Advisor, Masters Students (Degree Completed)

- Mr. Jordan Pritikin, M.S. in Biology (1986)
- Mr. Mark Duffy, M.S. in Biology (1986)
- Mr. Dean Karahalios, M.S. in Biology (1987)
- Ms. Carol Gilmore, M.S. in Biology (1987)
- Mr. Steven Sun, M.S. in Biology (1989)
- Mr. Ta-chi Cheng, M.S. in Biotechnology (1994)
- Mr. Prince Alexander, M.S. in Biotechnology (1995)

Ms. Elana Kogan, M.S. in Biotechnology (1997)
Ms. Genevieve Faith, M.S. in Biotechnology (1997)
Ms. Juliet Lee, M.S. in Neurobiology/Physiology (1997)
Mr. Jaeson Kaplan, M.S. in Biotechnology (1998)
Ms. Anne Carlson, M.S. in Neurobiology/Physiology (2000)
Ms. Allison Potempa, M.S. in Biotechnology (2000)
Ms. Holly Krasa, M.S. in Neurobiology/Physiology (2001)
Ms. Aisha Kung, M.S. in Neurobiology/Physiology (2005)

Thesis Advisor, Undergraduate Honors Students (Degree Completed) (1984-present)

Ms. Susannah Spies, B.A. in Biology with Honors, 1986
(current: M.D., Gastroenterologist, Glenview Hospital, Glenview IL)
Mr. Paul Koh, B.A. in Biology with Honors, 1987 (current: M.D., University of Minnesota,
Division of Cardiovascular and Thoracic Surgery)
Mr. Charles Pryzant, B.A. in Biology with Honors, 1988 (current: M.D., Psychiatry, Dallas, TX)
Ms. Laura Rucker, B.A. in Biology with Honors, 1988
Mr. Dean Karahalios, B.A. in Biology with Honors, 1986 (current: M.D., Neurosurgery,
Chicago Institute of Neurosurgery and Neuroscience Research)
Ms. Soni Mehta, B.A. in Biology with Honors, 1988
Ms. Mary Beth Sholand, B.A. in Biology with Honors, 1986
(current: M.D. Assistant Professor: Department of Internal Medicine, University of Utah
School of Medicine)
Mr. Dasun Chen, B.A. in Biology with Honors, 1988
(current: M.D., Otolaryngology, Newport Beach, CA)
Mr. Edward Paloyan, B.A. in Biology with Honors, 1989
(current: M.D., Endocrinology, Oakbrook, IL)
Mr. Christopher Hazuka, B.A. in Biology with Honors, 1990
(current: Ph.D. in Neuroscience, Stanford University; J.D., Washington State University)
Ms. Galina Hornyik, B.A. in Biology with Honors, 1990
(current: M.D., Pediatrics, Draper UT)
Mr. Idranil Das, B.A. in Biology with Honors, 1990
Ms. Elizabeth Anderson, B.A. in Biology with Honors, 1992
Ms. Bitu Tabesh, B.A. in Biology with Honors, 1992
(current: M.D., Hematology and Oncology, Brigham and Women's Hospital, Boston, MA)
Ms. Diana Wong, B.A. in Biology with Honors, 1993
(current: M.D., Obstetrics and Gynecology, Tarzana, CA)
Ms. Cherie Berg, B.A. in Biology with Honors, 1994
(M.D., Anesthesiology, Minneapolis, MN)
Mr. Mike Liang, B.A. in Biology with Honors, 1995
Mr. Cyrus Lee, B.A. in Biology with Honors, 1996
(current: D.D.M., Beaverton, OR)
Ms. Ruple (Shah) Laughlin, B.A. in Biology with Honors, 1997
(current: M.D., Neurology, Mayo Clinic, Rochester, MN)
Ms. Sangeeta Gupta, B.A. in Biology with Honors, 1997
Ms. Ellen Air, B.A. in Biology with Honors, 1997
(current: M.D., Neurosurgery, University of Cincinnati School of Medicine)
Mr. Shomit Sangupta, B.A. in Biology with Honors, 1999
(current: Ph.D. student, Department of Biology, M.I.T.)
Ms. Isadora Rapoport, B.A. in Biology with Honors, 2000
(Ph.D. in Neuroscience, Emory University)

Mr. David Kim, B.A. in Biology with Honors, 2000
(current: M.D., Instructor, Clinical, Division of General Internal Medicine, Northwestern Memorial Hospital, Chicago, IL)

Ms. Namita Goyal, B.A. in Biology with Honors, 2000
(current: M.D. Neurology, Massachusetts General Hospital, Boston, MA)

Ms. Alice Lee, B.A. in Biology with Honors, 2000

Ms. Pauline Kim, B.A. in Biology with Honors, 2001

Ms. Diane Shih, B.A. in Biology with Honors, 2002

Ms. Lisa Wu, B.A. in Biology with Honors, 2002

Mr. Jonathan Wong, B.A. in Biology with Honors, 2002

Ms. Carly Burgess, B.A. in Biology with Honors, 2002
(current: M.D., Indiana University Medical School)

Ms. Amy Oakley, B.A. in Biology with Honors, 2002
(current: Ph.D., University of Michigan, 2008; postdoctoral fellow, University of Washington School of Medicine, Seattle, WA)

Ms. Molly Morgan, B.A. in Biology with Honors, 2003
(current: MSc., Policy Administrator, Food and Drug Administration, Washington, D.C.)

Mr. Matej Polomsky, B.A. in Biology with Honors, 2004

Ms. Judy Tsai, B.A. in Biology with Honors, 2004
(current: M.D., Feinberg School of Medicine, Northwestern University)

Ms. Rada Rajasingham, B.A. in Biology with Honors, 2004
(current: M.D., Internal Medicine, Beth Israel Deaconess Medical Center, Harvard University Medical School)

Mr. Robert Johnson, B.A. in Biology with Honors, 2005

Ms. Marcy DelMonte, B.A. in Biology with Honors, 2005

Mr. Thomas Johnson, B.A. in Biology with Honors, 2005 (Gates Scholarship Winner 2006)

Ms. Katherine Bosch, B.A. in Biology with Honors, 2005

Ms. Stephanie Schmitz, B.A. in Biology with Honors, 2006
(current: Research intern at the NICHD)

Mr. Alex Lauder, B.A. in Biology with Honors, 2007

Ms. Michelle Oesar, B.A. in Biology with Honors, 2007
(current: Ph.D. student in Cell and Molecular Biology Program at University of Washington, Seattle, WA)

Ms. Jamie White, B.A. in Biology with Honors, 2007

Mr. Patrick Ahearn, B.A. in Biology with Honors, 2007

Ms. Yelena Braginsky, B.A. in Biology with Honors, 2007

Mr. Kalen Rimar, B.A. in Biology with Honors, 2007

Mr. Dmitri Papagiannopoulos, B.A. in Biology with Honors, 2008
(current: Medical Student, Rush Medical College, Chicago, IL)

Ms. Jennifer Taylor, B.A. in Biology with Honors, 2009
(current: Teach for America Program)

Ms. Jennifer Young, B.A. in Biology with Honors, 2009
(current: Medical Student, Feinberg School of Medicine, Northwestern University)

Professional Societies

The Endocrine Society
Society for Neuroscience
Society for the Study of Reproduction
American Association for the Advancement of Science
American Neuroendocrine Society (President)

Society for Behavioral Neuroendocrinology

Professional Committees

Endocrine Society, Basic Science Chair, Annual Meeting Steering Committee, 2009
Endocrine Society, Annual Meeting Steering Committee, 2005-present
Society for the Study of Reproduction, 20th Annual Meeting, Chair-Session on
Neuroendocrinology (1988), Publications Committee (1988-1989), Awards Committee
(1995)
Society for Neuroscience, Eighteenth Annual Meeting, Chair-Session on Hypothalamic-Pituitary-
Gonadal Regulation III (1988)
American Neuroendocrine Society, Chair-Organizing Committee (1996)
Annual Neuroendocrine Workshop Organizing Committee (1998-present)
Endocrine Society, Student Affairs Committee (2001-2003)
Society for the Study of Reproduction, Program Committee (2004-2006)
Endocrine Society, Scientific Education Committee (2008)
Endocrine Society, Basic Science Task Force (2008-present)

Reviewing/Editing

Frontiers in Neuroendocrinology, Editor-in-Chief (2003-present)
Endocrinology, Associate Editor (1998-2002)
Endocrinology, Member of Editorial Board (1990-1994, 2004-2007)
Endocrine Journal, Member of Editorial Board (1994-present)
Neuroendocrinology, Member of Editorial Board (1999-present)
Science (Referee)
Journal of Neuroscience (Referee)
Biology of Reproduction (Referee)
Fertility and Sterility (Referee)
American Journal of Physiology (Referee)
Journal of Biological Rhythms (Referee)
Journal of Reproduction and Fertility (Referee)
Acta Endocrinologica (Referee)
Journal of Endocrinology (Referee)
Brain Research Bulletin (Referee)
Journal of Neuroscience Methods (Referee)
Journal of Neuroendocrinology (Referee)
National Institutes of Health, Small Grants (ad hoc grant reviewer)
National Science Foundation (ad hoc grant reviewer)
U.S. Department of Agriculture (ad hoc grant reviewer)

National Advisory Committees, Study Sections

National Institute for Child and Human Development (NICHD), Site Visit Committee Member,
University of California, San Diego, LaJolla, California (1986, 1998)
National Institute of Mental Health, Small Business Innovative Research Grants, Ad Hoc Study
Section Member (1993)
NICHD, Site Visit Committee Member, University of Virginia Medical School, Charlottesville,
Virginia (1997)
NICHD, Site Visit Committee Member, Intramural Research Program, Bethesda, Maryland
(1999)

NICHD, Population Research Committee, Study Section (1995-1999)
National Institute for Neurological Disorders and Strokes, Site Visit Committee Member,
Intramural Research Program, Bethesda, Maryland (2003)
NIH ICER Study Section, Ad Hoc 2004-2006
NIH Special Emphasis Panel/Postdoctoral and Predoctoral Fellowships, 2006, 2008

Seminar Speaker

Department of Physiology, Wisconsin Regional Primate Research Center, Madison, WI (1982)
Department of Physiology, University of Washington School of Medicine, Seattle, WA (1983)
Department of Pharmacology, Loyola University Stritch School of Medicine, Maywood, IL
(1984)
Department of Biology, Loyola University, Chicago, IL (1987)
Department of Physiology, University of California, San Francisco, CA (1987)
Department of Physiology, Oregon Health Sciences University, Portland, OR (1987)
Department of Physiology, Northwestern University Medical School, Chicago, IL (1987)
Department of Physiology, The Chicago Medical School, Chicago, IL (1987)
Department of Reproductive Endocrinology, Northwestern University Medical School, Chicago,
IL (1987)
Department of Obstetrics and Gynecology, College of Physicians and Surgeons, Columbia
University, New York, NY (1987)
Department of Physiology, University of Kansas Medical Center, Kansas City, KS (1987)
Department of Physiology, University of Michigan, Ann Arbor, MI (1988)
Department of Physiology, University of Pittsburgh School of Medicine, Pittsburgh, PA (1988)
Department of Anatomy, Emory University, Atlanta, GA (1989)
Department of Physiology and Biophysics, University of Illinois, Urbana, IL (1989)
Reproductive Endocrinology Program, Massachusetts General Hospital, Harvard Medical School,
Boston, MA (1989)
Department of Physiology and Biophysics, University of Illinois, Urbana, IL (1993)
Department of Obstetrics and Gynecology, University of Illinois College of Medicine, Chicago,
IL (1995)
Departments of Biology and Psychology, University of Massachusetts, Amherst, MA (1995)
Department of Physiology and Neurobiology, University of Connecticut, Storrs, CT (1996)
Department of Physiology and Biophysics, The Chicago Medical School, North Chicago, IL
(1996)
Reproductive Sciences Program, Department of Physiology, University of Michigan, Ann Arbor,
MI (1996)
Department of Anatomy and Physiology, Kansas State University, Manhattan, KS (1996)
Department of Anatomy and Neurobiology, University of Maryland School of Medicine,
Baltimore, MD (1998)
Department of Medicine, Endocrine Rhythms Unit, University of Chicago Hospital, Chicago, IL
(1998)
Department of Physiology, Annual Symposium on Reproduction, University of Kentucky,
Lexington, KY (2000)
Department of Physiology, Oregon Health Sciences University, Portland, OR (2000)
Division of Reproductive Biology, Oregon Regional Primate Research Center, Beaverton, OR
(2000)
Department of Molecular and Integrative Physiology, University of Kansas Medical Center,
Kansas City, KS (2000)
Endocrine Division, Department of Medicine, University of Virginia Medical School,

Charlottesville, VA (2001)

Department of Physiology and the University of Wisconsin Primate Center, University of Wisconsin, Madison, WI (2001)

Department of Physiology, University of Toronto Medical School, Toronto, Canada (2001)

Department of Physiology and Pharmacology, Loyola University Stritch School of Medicine, Maywood, IL (2001)

Neuroscience Program and The Yerkes Primate Center, Emory University, Atlanta, GA (2002)

Organizer and Speaker, February 26, 2004. NICHD-sponsored Neuroendocrine Focus Group Meeting, Specialized Center Programs for Reproductive Research (SCPPR), Oregon Regional Primate Research Center, Beaverton, OR.

Invited Seminar Speaker and Consultant, April 23, 2004. Department of Reproductive Toxicology, Bristol-Myers-Squibb Corp., Plainsboro, NJ.

Symposium session chair. August 2, 2004, University of British Columbia, BC, Canada. Mahesh Symposium on Neuroendocrinology, Annual Meeting of the Society for the Study of Reproduction, Vancouver, British Columbia, Canada.

Invited Speaker, October 6, 2004, Specialized Centers of Research (SCOR) on Gender Issues Affecting Women's Health, SCOR Directors' Meeting. "Effects of Androgen Exposure on the Female Reproductive Axis: Implications for the Pathophysiology of Polycystic Ovary Syndrome". Bethesda, MD

Oral Presentation Session Chair. October 24, 2004. 34th Hypothalamic-Pituitary-Gonadal Axis Regulation I. Annual Meeting of the Society for Neuroscience, San Diego, CA.

Seminar Speaker, November 30, 2004, University of Illinois, Champaign-Urbana, IL. Minority student association. "Sex Differences in the Brain"

Organizer and Speaker, February 7, 2005. NICHD-sponsored Neuroendocrine Focus Group Meeting, Specialized Center Programs for Reproductive Research (SCPPR), Baylor University Medical School, Houston, TX.

Seminar. "Novel roles for neuronal progesterone receptors". Department of Cell Biology, Baylor University Medical School, Houston, TX. March 9, 2006.

Seminar: "Feedback and Fertility: Novel mechanisms of progesterone action in brain." Department of Physiology, Medical College of Georgia, Augusta, GA. April 13, 2006.

Seminar: "Feedback, Fertility and Fatherhood: Novel Roles for Progesterone Receptors in Brain". Department of Physiology and Biophysics, University of Washington School of Medicine, Seattle, WA. April 24, 2006.

Invited speaker: "Fertility and Fatherhood: Functions of Neuronal Progesterone Receptors." Meeting of the Brazilian Physiological Society, Sao Paulo, Brazil. August 23-26, 2006.

Invited speaker: "Food, Fat and Fertility: Metabolic Regulation of Reproductive Hormone Secretions". Institute for Neuroscience, Seoul National University, Seoul, Korea. October 15-17, 2006.

Seminar: "Novel Roles for Neuronal Progesterone Receptors". Department of Physiology, University of Illinois Medical School, Carbondale, IL. February 1, 2007.

Seminar for CRS Members: "Steroid Actions in Brain: From Fertility to Fatherhood. Center for Reproductive Science, Northwestern University. December, 2006.

Seminar: "Fertility, Feeding and Fatherhood: Novel Physiological Roles for Neuronal Progesterone Receptors." Department of Physiology, University of Iowa Medical School, Iowa City, IA. February 28, 2007.

Course Lecturer: "Reproductive Neuroendocrinology", Marine Biological Laboratories, Woods Hole Laboratories, Woods Hole, MA. Course entitled "Frontiers in Reproduction". May 10, 2008.

Seminar: Center for Neuroendocrine Studies, Departments of Biology and Psychology, University of Massachusetts, Amherst, MA. "Feedback, Fertility and Fitness: Consequences of non-classical ERalpha signaling in brain." April 14, 2008

Seminar: Department of Biological Sciences, U.W. Milwaukee, Milwaukee, WI. "Feedback, Flirting and Fatness: Consequences of Non-classical Estrogen Receptor Signaling in the Brain." February 11, 2011.

Seminar: Center for Research in Reproduction, University of Virginia. "Feeding Back and Fighting Fat: Consequences of Non-Classical Estrogen Receptor Signaling in Brain." March 24, 2011.

(Not updated to present)

Invited Symposium Speaker

National Institute of Child Health and Human Development, Director's Meeting, Northwestern University, Evanston, IL (1989)

Sereno Symposium on Neuroendocrine Regulation of Reproduction, The Silverado Resort, Napa, CA (1989)

Laurentian Hormone Conference, Colorado Springs, CO (1990)

Serono Symposium on Follicle-Stimulating Hormone, Evanston, IL (1990)

Serono Symposium on GnRH and GnRH Analogs, Scottsdale, AZ (1992)

Chicago Chapter of the Society for Neuroscience, Annual Meeting, Symposium on Neuroendocrinology, Chicago, IL (1992)

Endocrine Society, Annual Meeting, New Technology Series, "Microdialysis: New Uses in Endocrinology," Las Vegas, NV (1993)

International Endocrine Societies Quadrennial Meeting, Symposium on Biological Pulsatility, San Francisco, CA (1996)

Summer Neuropeptide Conference, Martha's Vineyard, Massachusetts (1996)

Society for the Study of Reproduction, President's Symposium "Neuroendocrine Control of Gonadotropin Surges: A Comparative View", 29th Annual Meeting, London, Ontario (1996)

Endocrine Society, Annual Meeting, Symposium on GnRH Neurons, Toronto, Canada (2000)

International Congress of Endocrinology, Symposium on GnRH Neurons and GnRH Hormone, Sydney, Australia (2000)

Reproductive Endocrinology Symposium, Keynote Speaker, University of Wisconsin, Madison, WI (2002)

Invited Speaker. February 13, 2005. "Reproductive Functions of Neuropeptide Y." Satellite Symposium to the 3rd International Meeting on Steroids and the Nervous System. International Brain Research Organization (IBRO). Torino, Italy.

Symposium speaker: Center for Reproductive Biology, University of Kansas Medical Center, Gilbert Greenwald Annual Symposium on Reproductive Biology. Title: Feedback and Fertility: Consequences of Non-Classical ERalpha Signaling in Brain.", Kansas City, Kansas, October 9, 2008

Symposium speaker: FASEB Summer Meeting on Rapid Actions of Steroid Hormones, Title: "PR-independent feedback mechanisms of progesterone in brain", Carefree, AZ, July 29, 2008

Symposium speaker: "Feedback, Fertility and Fatness: Consequences of Non-Classical ERalpha signaling in brain." Annual Meeting of the Society for Behavioral Neuroendocrinology, East Lansing, MI, June 26, 2009

Symposium speaker: “Feedback and Fitness: Consequences of Non-Classical ERalpha signaling in the brain”. Joint Annual Meeting of the ADSA, CSAS, and ASAS Montreal, CA, July 14, 2009

(not updated to present)

Grant Support

Previous Funding:

1. Searle Foundation Leadership Fund for the Life Sciences
“Laboratory set-up” funds
9/1/84-8/30/86
\$33,700
2. National Institutes of Health
R01-HD20677-01 Neuroendocrine Regulation of *In Vivo* LHRH Release
7/1/85-6/30/88
\$170,760
3. Lilly Foundation
“Neuroanatomy Teaching Laboratory” (Lilly Scholar Award)
1/1/85-1/1/86
\$6,000
4. Squibb Fund for Pre-Medical Education
“Equipment purchase for Pre-Medical Education”
3/1/86
\$5,000 from total award to Northwestern University
5. National Institutes of Health
F33-HD07304-01
Senior Visiting Fellowship for Dr. Sandra J. Legan
1/1/89-12/31/89
Salary support for Dr. Legan and \$3,000 for travel expenses and supplies
6. National Institutes of Health
NS08609-02
Postdoctoral Fellowship for Dr. Janice H. Urban
11/1/89-10/31/90
7. National Institute of Mental Health
MH10177-02 Predoctoral Fellowship for Ms. Angela Bauer-Dantoin
9/1/91-12/1/92
8. National Institutes of Health
P01-HD21921-05

- Program Project Grant: Follicle-Stimulating Hormone: Control and Action
(P.I. Neena B. Schwartz)
\$3,597,385 (5-year direct costs)
9. National Institutes of Health
P30-HD28048-05
Center Grant for Research on Fertility and Infertility
(P.I. Fred W. Turek)
(Jon E. Levine, Director of Hormone and Neurotransmitter Measurements Core)
\$1,467,841 (5-year direct costs)
\$607,248 (5-year direct costs for Core)
10. National Institutes of Health
K04-HD00879-04
Research Career Development Award
(P.I. Jon E. Levine)
9/1/89-8/30/94
\$238,000 (5-year salary support)
11. National Institutes of Health
R01-HD20677-09
Neuroendocrine regulation of *in vivo* LHRH release*
(P.I. Jon E. Levine)
12/1/88-11/30/94
\$538,847 (total direct costs)
12. Chicago Heart Association
Effects of Anabolic Steroids on Neuropeptide Y Receptors
(P.I. Janice H. Urban, Co-P.I. Jon E. Levine)
4/1/94-3/31/96
\$46,000 (2-year direct costs)
13. National Institute of Mental Health
F31-MH-10177
Predoctoral fellowship for Angela Bauer-Dantoin
4/1/91-8/30/92
14. National Institutes of Health
P01-HD21921-07
Program Project Grant: Follicle-Stimulating Hormone: Control and Action
(P.I. Neena B. Schwartz)
\$2,921,702 (5-year direct costs)
Regulation and Role of FSH in Photoperiodic Response
(P.I. Fred W. Turek, Co P.I. Jon E. Levine)
15. National Institutes of Health
T32-HD07068-19
Training Program in Reproductive Biology
(P.I. Jon E. Levine)
7/1/93-6/30/98
\$145,000 (Current year direct costs)

\$728,000 Total direct costs

16. National Institutes of Health
R01-HD20677-10
Neuroendocrine regulation of LHRH release
(P.I. Jon E. Levine)
3/1/96-2/28/00
\$551,637 (total direct costs)

17. National Institutes of Health
P30-HD28048-06
Center for Research on Fertility and Infertility
(P.I. Fred W. Turek)
4/1/96-3/30/00
(Core F: Hormone and Neurotransmitter Measurement Core; Director, Jon E. Levine)
\$1,248,708 (5-year direct costs)
\$404,880 (5-year direct costs for Core F)

18. Layton Bioscience, Inc.
Biological Activity of Rat PrePro-TRH 178-199 and Human PrePro-TRH 158-183
(Co-Investigators: E. Redei and J.E. Levine)
3/1/98-open
\$150,582 (direct costs)

19. National Institute for Child Health and Human Development
“Role of progesterone receptors in FSH surges” (Investigates ligand-independent activation of progesterone receptors in brain and pituitary gland).
P01 HD21921-11
(P.I.: Project II, Jon E. Levine, Ph.D.)
12/15/98-12/14/03
\$628,748 (Total Direct Costs)
These studies comprise Project II of a Program Project Grant entitled “FSH: Control and Action” (Program Project P.I., Mary Hunzicker-Dunn). The objective of this project is to determine how the actions of estrogen, progesterone, inhibin, and activin are integrated in the hypothalamus and pituitary gland to stimulate gonadotropin surges. The studies specifically focus on the hypothesis that ligand-independent activation of progesterone receptors comprises an important step in the cellular events leading to GnRH surges, primarily gonadotropin surges and secondary FSH surges.

20. National Institute for Child Health and Human Development
“Training Program in Reproductive Biology” (Training Grant supporting pre- and postdoctoral fellows in reproductive biology).
T32 HD07068-21
(P.I. Jon E. Levine, Ph.D.)
7/1/99-6/20/04
\$964,606 (Total Direct Costs)
This training grant supports four pre-doctoral and three post-doctoral fellows for training in the reproductive sciences.

21. National Institute for Child Health and Human Development
 “Core C: Ligand Assay Core”
 P01 HD21921-11
 (Core Director: Jon E. Levine, Ph.D., Program Project P.I.: Mary Hunzicker-Dunn)
 12/15/98-12/14/03
 \$380,000 (Total Direct Costs)
 This grant supports core facilities accessed by reproductive scientists working on projects comprising this program project grant. The goal of the Core is to provide service and training in Ligand Assay methodologies, including radioimmunoassays, ELISAs and bioassays.
22. National Institute of Mental Health
 “Mouse mutagenesis: Phenotype-driven neuroscience screens”
 U01 MH61915-01
 (P.I. Joseph S. Takahashi, Ph.D., Director of Neuroendocrine Core: Jon E. Levine, Ph.D.)
 5/1/01-4/30/06
 \$507,347 (Total Direct Costs for Neuroendocrine Core)
 This grant supports a Center for Mouse Genomics that will conduct large-scale ENU mutagenesis screens for pathophysiological phenotypes that include circadian rhythms, fear conditioning, vision, neuroendocrine hormones, and response to psychostimulants. The Neuroendocrine Screen will assay basal and stress-induced corticosterone and TSH levels in an attempt to find behaviorally-relevant mutant neuroendocrine phenotypes.
23. National Heart, Lung and Blood Institute
 “Biobehavioral Bases of CHD Risk and Management”
 P01 HL336588
 (P.I. Neil Schneiderman, University of Miami, Miami, Florida)
 7/1/01-6/30/06
 \$126,598 (Total Direct Costs for Subcontracts)
 This program project grant consists of an integrated examination of atherosclerosis and its amelioration by altered diet, exercise and stress management. Subcontract to Jon E. Levine, Ph.D. is for hormone measurements in Project III, “Environment, CNS and Atherosclerosis in WHHL Rabbits,” Project Director, Phillip McCabe, Ph.D.
24. NIH/NICHD
 Chicago Center for Reproductive Research:
 U54 HD041859-01 (Radovick, Center Dir.; Levine Project III P.I.)
 Negative feedback actions of progesterone (Project III)
 04/28/03-3/31/08 10% (academic yr)
 \$139,084 (Project III)
 This grant supports a Center for Reproductive Research, which in turn consists of four projects focusing on complimentary reproductive neuroendocrine issues. The objectives of Project III are to determine the mechanisms by which progesterone may exert its negative feedback actions within the reproductive axis, and the cellular mechanisms mediating progesterone’s actions on GnRH neurons.

Current Support:

1. NIH/NICHD
 *T32 HD07068-21 (P.I. Levine)
 Training Program in Reproductive Biology
 05/01/04-04/31/09
 This training grant supports four predoctoral and three post-doctoral fellows for training in the reproductive sciences.

 *Competitive renewal is currently under review.
3. NIH/NICHD
 P50 HD44405-01 (Dunaif, Ctr Dir.; Levine, Center Co-Director; Levine, Project PI.)
 08/01/07-07/31/12
 Specialized Center of Research: Gender Issues Affecting Womens Health.
 Project IV: Androgen programming of neurovisceral control systems
 \$180,000 direct costs (Project IV)
 These studies examine the effects of prenatal androgen exposure on neural systems that govern endogenous glucose production and insulin sensitivity. They test the hypothesis that the metabolic symptoms of polycystic ovarian syndrome arise from prenatal hyperandrogenemia, and subsequent programming of disordered neural signals to the liver and adipose tissue. This grant supports a Specialized Center of Research entitled (Levine, Center Co-Director and Project IV P.I.)
4. NIH/NIA
 R03AG030181-01 (Levine, P.I.)
 04/01/07-03/31/09
 \$41,000 direct costs
 Dysregulation of potassium channels in hot flashes
 This study explores the role of 2-pore domain potassium channels in the generation thermoregulatory instability in an animal model of “hot flashes”.
5. *NIH/NICHD
 P01 HD21921 (Mayo, P.I.; Levine, Project P.I.)
 12/01/09 - 11/30/14
 \$245,000 direct costs
 Nonclassical Estrogen Receptor Alpha Action in the Reproductive Axis
 These studies examine how the absence of classical ER signaling, and presence of non-classical ER signaling may impact neuroendocrine function.
6. NIH/NICHD
 K99/R00 New investigator transition award for Dr. Maricedes Acosta-Martinez
 (Acosta-Martinez awardee, Levine P.I. sponsor)
 03/01/08-2/28/13
 \$100,000 annual direct costs

Publications (108 publications as of December 31, 2009)

Peer-Reviewed Journal Publications:

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