

# CURRICULUM VITAE

**Marc J. Tetel**

## ADDRESS

Neuroscience Program  
Science Center, Room 367  
106 Central St.  
Wellesley College  
Wellesley, MA 02481  
(781) 283-3003 Office  
(781) 283-3642 Fax  
mtetel@wellesley.edu

## EDUCATION

1988-1993      Ph.D., Neuroscience and Behavior Program, University of  
Massachusetts, Amherst, MA

1982-1986      B.A., Biological Sciences, Northwestern University, Evanston, Illinois

## ACADEMIC POSITIONS

2007-present      Assistant Professor, Neuroscience Program, Wellesley College, Wellesley, MA  
Adjunct Member, Center for Neuroendocrine Studies, UMass

2005-2007      Assistant Professor, Department of Biological Sciences, Wellesley College,  
Wellesley, MA  
Adjunct Member, Center for Neuroendocrine Studies, UMass

2001-2005      Assistant Professor, Department of Biology, Skidmore College,  
Saratoga Springs, NY  
Member, Neuroscience Program  
Adjunct Member, Center for Neuroendocrine Studies, UMass  
Associate Member, Neuroscience and Behavior Program, UMass

1998-2001      Visiting Assistant Professor, Department of Psychology, University of  
Massachusetts, Amherst, MA  
Member, Neuroscience and Behavior Program  
Member, Center for Neuroendocrine Studies  
Member, Molecular and Cellular Biology Program

1993-1998      Postdoctoral Fellow; Department of Pathology, University of  
Colorado Health Sciences Center. Laboratory of Dr. Dean Edwards

1988-1993      Graduate Student; Neuroscience and Behavior Program,  
University of Massachusetts. Laboratory of Dr. Jeffrey Blaustein

## TEACHING AND TRAINING EXPERIENCE

2005-present      Courses taught at Wellesley College  
Introductory Cell Biology and Lab 110  
Biology of Brain and Behavior 213  
Neuroendocrinology and Lab 315

- 2001-2005 Courses taught at Skidmore College:  
Introduction to Biology BI 106  
Frontiers in Molecular Neuroscience BI342  
Neuroendocrinology and Lab BI 349  
Introduction to Neuroscience and Lab NS 101  
Liberal Studies 1  
Biology Senior Seminar BI 378  
Integrative Seminar in Neuroscience Research NS 277
- 1998-2001 Courses taught at University of Massachusetts:  
Physiological Psychology 330  
Frontiers in Neuroscience, Psych/NSB 591  
Behavioral Endocrinology Honors Seminar 391H  
Molecular Neuroscience Journal Club
- 1998-present Graduate Students: Heather Molenda, Ph.D. Chair of Dissertation Committee, Neuroscience and Behavior Program, UMass  
Umar Imtiaz, Masters, Chair, Molecular and Cellular Biology Program, UMass  
Joe Oberlander, Ph.D. candidate, Member, Neuroscience Program, Boston University
- 1998-present Undergraduate Research Students  
Wellesley College: Dana Im (HHMI Sophomore Research), Kathy Mu, Stephanie-Lydia Njemanze (MSP Scholar) Mackensie Yore (HHMI Sophomore Research)  
Skidmore College: Rachel Allen, Caitlin Kilts, Suzanne Murphy, Nora Siegal, Ibarido Zambrano (Higher Education Opportunity Program, HEOP), Kate Shea, Lena Webb (Endocrine Society Summer Research Award, 2004), Sebastian Fica, Gina Loshkajian  
UMass: Andreana Griffin (Howard Hughes REU Fellowship, Honors Research Fellowship, Director's Award), Tharsis Rodriguez (NSF Minority REU), Sarah Wessels (Honors Sophomore Fellowship), Umar Imtiaz (Minority Student Mentor Program), Casey Williams (Honors Sophomore Fellowship, Howard Hughes REU), Brett Hassan (NSF REU)

## **GRANTS AND AWARDS**

- 2006-2008 National Science Foundation, "Acquisition of a Molecular Devices GenePix 4000B Scanner and a Bio-Rad iQ5 Real-Time PCR System for Interdisciplinary Research and Teaching in an Undergraduate College Setting"  
Co-PI, MRI DBI-0619206, (Total Costs: \$112,591)
- 2002-2008 National Institutes of Health, National Diabetes and Digestive and Kidney Diseases Division "Mechanisms of Steroid Hormone Action in Brain",  
PI, R01 DK61935, (Direct \$600,000, Indirect \$292,186)
- 2001-2002 National Institutes of Health and Office of Research on Women's Health, "Mechanisms of Steroid Hormone Action in Brain",  
PI, R55 DK61935, (Direct \$80,000, Indirect \$20,000)

2000-2003	National Science Foundation, "Function of Coactivators in Progestin Action in Brain and Regulation of Behavior" NSF 0080818, (Total Costs: \$138,500)
2001-2002	National Science Foundation, Research Opportunities Award, supplement to NSF 0080818, (Total costs: \$17,314)
2000	National Science Foundation, Research Experience for Undergraduates, supplement to NSF 0080818, (Total costs: \$10,200)
1998-2000	Faculty Research Grant, University of Massachusetts, "Steroid Receptor Coactivator Function in Brain" (Total Direct: \$15,000)
1995-1998	National Research Service Award, National Institutes of Health, "Ligand Binding Domain of Progesterone Receptor" DK09225 (Total Direct: \$82,200)
1994-1996	American Cancer Society Institutional Grant for Breast Cancer Research, "Structural and Functional Analysis of the Ligand Binding Domain of Progesterone Receptor" (Total Direct: \$14,000)
2000	"Faculty Grant for Teaching", Council on Teaching, Learning and Instructional Technology: Center for Teaching, Univ. of Massachusetts
1998	Quest Diagnostics Young Investigator Travel Award for Endocrine Society Meeting
1997	Endocrine Society Travel Award

### **INVITED TALKS AND PRESENTATIONS**

September, 2007	Biology Department, Georgia State University, Atlanta, GA
July, 2007	Session Organizer and Presenter, "Novel Mechanisms of Hormone Action in Brain and Behavior", Congress of the International Society for Neuroethology, Vancouver, Canada
June, 2007	Presenter, Fellows and Students Day Program, Endocrine Society, Toronto, Canada
June, 2006, 2007	Reunion Faculty Lectures, Wellesley College
May, 2007	Career Seminar for Microbiology, Immunology and Cancer Biology Graduate Career Development Program, University of Minnesota
April, 2007	Boston Latin School, Boston, MA
March, 2007	Long Island Wellesley Club, Long Island, NY
June, 2006	Chair, "Oxytocin, Vasopressin and Behavior Symposium", Endocrine Society Meeting
	Chair, "Steroid Receptors and Coregulators II Oral Session", Endocrine Society Meeting
May, 2006	Biology Department, Union College, Schenectady, NY
March, 2006	Institute for Neurodegenerative Disorders, Massachusetts General Hospital, Charleston, MA
January, 2005	Biology Department, Lehigh University, Bethlehem, PA
December, 2003	Neuroscience Program, Michigan State University, East Lansing, MI
July, 2003	Center for Neuroscience Research and Research Experience for Undergraduates Training Program, University at Albany, SUNY, Albany, NY
June, 2003	Talk and Co-Chair of symposium, "Nuclear Receptor Coactivator Function in the

CNS and Behavior”, Society for Behavioral Neuroendocrinology Meeting, Cincinnati, OH, 2003.

December, 2002 The Center for Neuroscience and Neuropharmacology, Albany Medical Center, Albany, NY

November, 2002 Chair of the 13<sup>th</sup> Frank Beach Award in Behavioral Neuroendocrinology Social, Society for Neuroscience Meeting, Orlando, FL

October, 2002 Biology Department, Middlebury College, Middlebury, VT.

July, 2002 Society for the Study of Reproduction, 35<sup>th</sup> Annual Meeting, Baltimore, MD

February, 2002 Skidmore Pride Alliance and The Office of Residential Life, Skidmore College

April, 2001 Workshop on Steroid Hormones and Brain Function, Breckenridge, CO

March, 2001 Moderator and Panelist on “Sex differences in Cognitive Development” session at the Second Annual Conference on Sex and Gene Expression, The Society for Women's Health Research, Winston-Salem, NC

November 1998, 1999, 2000 Neuroscience presentation to Talent Advancement Program for Psychology Freshman, UMass, Amherst, MA.

September, 1997 Grand Rounds, Department of Pathology, University of Colorado Health Sciences Center, Denver, CO.

September, 1997 Biology Department, Colorado College, Colorado Springs, CO.

August, 1997 Ligand Pharmaceuticals, Inc., San Diego, California.

February, 1997 Psychology Society, Colorado College, Colorado Springs, CO.

November, 1997 Neuroscience Presentation to Biology Classes, Huxley High School, Aurora, CO.

August, 1996 Department of Neurobiology, Weizmann Institute, Rehovot, Israel.

April, 1996 Chair of “Molecular and Genetic Tools for Investigating Steroid Hormone Action in Brain” Symposium at Workshop on Steroid Hormones and Brain Function, Breckenridge, CO.

April, 1995 Discussant on ‘Steroid Independent Activation of Steroid Receptors’ Symposium at Workshop on Steroid Hormones and Brain Function, Breckenridge, CO.

### **REVIEWING FOR JOURNALS**

Journal of Neuroscience  
 Endocrinology  
 Journal of Neuroendocrinology  
 Cancer Research  
 Physiology and Behavior  
 Neuroendocrinology  
 Brain Research  
 Hormones and Behavior  
 Molecular Brain Research  
 Molecular Neurobiology  
 DNA Sequence  
 Brain Research Bulletin  
 Behavioral Brain Research  
 Journal of Undergraduate Neuroscience Education  
 Textbook reviews: Wadsworth Publishing Company, Prentice Hall

### **SERVICE FOR GRANT REVIEWS**

Ad-Hoc Member, ZRG1 Immunology Study Section, NIH, February 2004 & October 2004  
 Grant Review Board, Support of Mentors and their Students in the Neurosciences (SOMAS) 2005, 2006

Ad-hoc Reviewer:

National Science Foundation, Division of Integrated Biology and Neuroscience

Behavioral Systems Cluster  
International, Western Europe Program  
Alzheimer's Association  
M.J. Murdock Charitable Trust, Murdock College Research Program  
Natural Sciences and Engineering Research Council of Canada

## **AFFILIATIONS, PROFESSIONAL SOCIETIES AND OTHER ACTIVITIES**

1989-present	Society for Neuroscience
1995-present	Endocrine Society
1996-present	Society for Behavioral Neuroendocrinology
1997-present	Faculty for Undergraduate Neuroscience
2002-present	Society for the Study of Reproduction
2007-present	International Society for Neuroethology
2004-present	Society for Experimental Biology and Medicine
2006-present	Sigma Xi
2003-2006	Section Head of "Coregulator Function in Central Nervous System" division of NIH sponsored Nuclear Receptor Signaling Atlas website, <a href="http://www.NURSA.org">www.NURSA.org</a>
2004, 2007	Steering Committee Member, North East Under/graduate Research Organization for Neuroscience (N.E.U.R.O.N.)
2001-2003, 2005-06	Co-Chair, Center for Neuroendocrine Studies Symposium Committee
1997-1998	Consultant for Estrogen Receptor Beta Project, Affinity BioReagents, Inc., Golden, Colorado

## **ACADEMIC SERVICE**

### **Wellesley College**

2005-present	Member, Neuroscience Advisory Committee
2006-present	Chair, Institutional Animal Care and Use Committee
2006-present	Member, Committee of Education, Research and Development
2006-present	Institutional Biosafety Committee
2005-2007	Fiske Awards Committee

### **Skidmore College**

2001-2005	Neuroscience Steering Committee
2001-2005	Health Professions Advisory Committee
2003	Biology Department Committee on Biology Curriculum

### **UMass**

1998-2001	Psychology Honors Committee
1998-2001	Neuroscience and Behavior Graduate Admissions Committee
1999-2001	Psychology Colloquia Committee

## **PUBLICATIONS**

### **Articles in Refereed Journals**

McGinnis, M.Y., Lumia, A.R., Tetel, M.J., Molenda-Figueira, H.A. and Possidente, B. Effects of anabolic androgenic steroids on the development and expression of activity and circadian rhythms in male rats. **Physiology & Behavior**, 2007, in press.

Tetel, M.J., Siegal, N.K., Murphy, S.D., Cells in behaviourally-relevant brain regions coexpress nuclear receptor coactivators and ovarian steroid receptors. **Journal of Neuroendocrinology**, 19: 262-271, 2007.

- Molenda-Figueira, H.A., Williams, C.A., Griffin, A.L., Rutledge, E.M., Blaustein, J.D. and Tetel, M.J. Nuclear receptor coactivators function in estrogen receptor- and progesterone receptor-dependent aspects of sexual behavior in female rats. **Hormones and Behavior**, 50: 383-392, 2006.
- Tetel, M.J., Ungar, T.C., Hassan, B., and Bittman, E.L. Photoperiodic regulation of androgen receptor and Steroid Receptor Coactivator-1 in Siberian hamster brain. **Molecular Brain Research** 131: 79-87, 2004.
- Molenda, H.A., Kilts, C.P., Allen, R.L. and Tetel, M.J. Nuclear receptor coactivator function in reproductive physiology and behavior. **Biology of Reproduction** 69: 1449-1457, 2003.
- Auger, A.P., Perrot-Sinal, T.S., Auger, C.J., Ekas, L.A., Tetel, M.J. and McCarthy, M.M. Expression of the nuclear receptor coactivator, CREB-binding protein, is sexually dimorphic and modulates sexual differentiation of neonatal rat brain. **Endocrinology**, 143: 3009-3016, 2002.
- Molenda, H.A., Griffin, A.L., Auger, A.P., McCarthy, M.M. and Tetel, M.J. Nuclear receptor coactivator function in hormone-dependent gene expression in brain and female reproductive behavior in rats. **Endocrinology** 143: 436-444, 2002.
- Greco, B., Tetel, M.J., Allegretto, E.A. and Blaustein, J.D. Estrogen Receptor- $\beta$  expression and regulation in female rat brain. **Endocrinology** 142: 5172-5181, 2001.
- Auger, A.P., Tetel, M.J. and McCarthy, M.M. Steroid receptor co-activator-1 mediates the development of sex specific brain morphology and behavior. **Proceedings of the National Academy of Sciences** 97: 7551-7555, 2000.
- Tetel, M.J. Nuclear receptor coactivators in neuroendocrine function. **Journal of Neuroendocrinology** 12: 927-932, 2000.
- Tetel, M.J., Giangrande, P.H., Leonhardt, S.A., McDonnell, D.P. and Edwards, D.P. Hormone-dependent interaction between the amino- and carboxyl-terminal domains of progesterone receptor *in vitro* and *in vivo*. **Molecular Endocrinology** 13: 910-924, 1999.
- Tetel, M.J., Jung, S., Carbajo, P., Ladtkow, T., Skafar, D.F. and Edwards, D.P. Hinge and amino-terminal sequences contribute to solution dimerization of human progesterone receptor. **Molecular Endocrinology** 11: 1114-1128, 1997.
- Tetel, M.J., Getzinger, M.J. and Blaustein, J.D. Estradiol and progesterone influence the response of ventromedial hypothalamic neurons to tactile stimuli associated with female reproduction. **Brain Research** 646: 267-272, 1994.
- Tetel, M.J., Celentano, D.C. and Blaustein, J.D. Intraneuronal convergence of tactile and hormonal stimuli associated with female reproduction in rats. **Journal of Neuroendocrinology** 6: 211-216, 1994.
- Tetel, M.J., Getzinger, M.J. and Blaustein, J.D. Fos expression in the rat brain following vaginal-cervical stimulation by mating and manual probing. **Journal of Neuroendocrinology** 5: 397-404, 1993.
- Tetel, M.J. and Blaustein J.D. Immunocytochemical evidence for noradrenergic regulation of estrogen receptor concentrations in the guinea pig hypothalamus. **Brain Research** 565: 321-329, 1991.

## Chapters

Tetel, M.J., Beck, C.A., Ladtkow, T., Christensen, K., Weigel, N.L. and Edwards, D.P. Functional properties and post-translational modification of steroid hormone receptors in the baculovirus expression system. In: **Invertebrate Cell Culture** (Maramorosch, K. and Mitsuhashi, J., eds.), Enfield, Science Publishers, Inc., pp. 201-210, 1997.

Blaustein, J.D., Tetel, M.J. and Meredith, J.M. Neurobiological regulation of hormonal response by progestin and estrogen receptors. In: **Neurobiological Effects of Sex Steroid Hormones** (Micevych, P. and Hammer, R., eds.), New York, Cambridge University Press, pp. 324-349, 1995.

Blaustein J.D., Tetel, M.J., Nielsen-Ricciardi, K.H., Delville, Y. and Turcotte, J.C. Hypothalamic ovarian steroid hormone-sensitive neurons involved in female sexual behavior.

**Psychoneuroendocrinology** 19: 505-516, 1994.

Blaustein, J.D., Olster, D.H. and Tetel, M.J. Heterogeneous regulation of steroid hormone receptors in the brain. **American Zoologist** 33: 219-228, 1993.

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. Behavioral Activation in Males and Females-Social Interaction and Reproductive Endocrinology. Comparative Physiology, Vol. 9 (Balthazart, J., ed.), S. Karger, Basel, pp. 75-90, 1990.

## Abstracts (selected)

Yore, M.A., Im, D., Chadwick, J.G., Tetel, M.J. Steroid receptor coactivator-2 (SRC-2) from hypothalamus and hippocampus interacts differently with the progestin receptor isoforms. Society for Neuroscience, 295.9, 2007.

Gonzales, K., Tetel, M.J., Wagner, C.K. Anatomically specific effects of selective estrogen receptor modulators (SERMs) on progesterone receptor expression in neonatal female rat brain. Society for Neuroscience, 293.13, 2007.

Billings, H.J., Coolen, L.M., Goodman, R.L., Lee, T.M., Mahoney, M.M., Tetel, M.J., Lehman, M.N. GnRH neurons of diurnal but not nocturnal species contain steroid receptor-1, Society for Neuroscience, 257.3, 2006.

Tetel, M.J., Yore, M.A., Webb, L.K., Chadwick, J.G., Molenda, H.A. Steroid Receptor Coactivator-2 is expressed in female rat brain and physically interacts with estrogen receptor (ER) $\alpha$ , but not ER $\beta$ , in a ligand-dependent manner. Society for Neuroscience, 258.9, 2006

Tetel, M.J., Molenda, H.A., Shea, K.L., Siegal, N.K., Murphy, S.D. Steroid Receptor Coactivator-1 (SRC-1) from rat brain interacts differentially with the ovarian steroid hormone receptors. Endocrine Society, 470, 2006.

Molenda, H.A., Shea, K.L., Siegal, N.K., Murphy, S.D., Tetel, M.J. Neural Steroid Receptor Coactivator-1 (SRC-1) physically associates more efficiently with PR-B than with PR-A. Society for Neuroscience, 320.16, 2005.

Molenda, H.A., Murphy, S.D., Tetel, M.J. Neural Steroid Receptor Coactivator-1 (SRC-1) physically associates with ovarian steroid receptors. Society for Neuroscience, 756.7, 2004.

Wagner, C.K., Quadros, P.S., Shea, K.L., Fica, S.M., Tetel, M.J., Rutledge, E.M. The SERM, Tamoxifen, elicits differential effects on progesterone receptor expression in the neonatal rat brain. *Society for Neuroscience*, 538.6, 2004.

Zambrano, I.A., Rutledge, E.M., Zehr, J.L., Tetel, M.J., Sisk, C.L. Age and hormones interact to regulate Steroid Receptor Coactivator-1 (SRC-1) expression in the amygdala and hypothalamus. *Society for Neuroscience*, 758.8, 2004.

Molenda, H.A., Williams, C.A., Rebidue, R., Blaustein, J.D., Tetel, M.J. Nuclear receptor coactivators function in estrogen and progestin receptor-dependent sexual behaviors in female rats. *Society for Neuroscience*, 29, 726.9, 2003.

Murphy, S.D., Kilts, C.P., Molenda, H.A., Tetel, M.J. Confocal analysis of coexpression of nuclear receptor coactivators and steroid receptors in rat hypothalamus, *Society for Neuroscience*, 29, 726.8, 2003.

Molenda, H.A., Williams, C.A., Blaustein, J.D., Tetel, M.J. SRC-1 and CBP modulate progestin receptor-dependent female sexual behavior in rats. *Hormones and Behavior*, 44, 166, *Society for Behavioral Neuroendocrinology*, 2003.

Billings, H.J., Tetel, M.J., Goodman, R.L., Lehman, M.N., Localization of steroid receptor coactivator-1 in the ewe preoptic area and hypothalamus: Coexpression in a subset of GnRH neurons. *International Conference on Neuroendocrinology*, 2002

Molenda, H.A., Griffin, A.L., Tetel, M.J. Nuclear receptor coactivators modulate steroid-dependent female sexual behavior in rats. *Society for Neuroscience*, San Diego, 2001, 424.15.

Tetel, M.J. and Wagner, C.L. Exploring the Frontiers of Neuroscience. *Society for Neuroscience*, Teaching of Neuroscience Abstract, New Orleans, 2000.

Molenda, H.A., Griffin, A.L., Tetel, M.J. Nuclear receptor coactivators modulate estradiol induction of progesterone receptor gene expression in rat hypothalamus. *Society for Neuroscience*, New Orleans, 2000.

Tetel, M.J., Altmann, M.S., Van Hoeven, N.S., and Edwards, D.P. The A and B forms of the progesterone receptor have distinct solution dimerization properties. Oral Presentation, OR6-5, *Endocrine Society Abstracts*, 1997.

Tetel, M.J., Jung, S., Carbajo, P., Skafar, D.F., and Edwards, D.P. The role of progesterone receptor domains in solution dimerization. Oral Presentation, OR42-7, *Endocrine Society Abstracts*, 1996.

Tetel, M.J., Jung, S., Carbajo, P., Skafar, D.F., Fiedler, J. and Edwards, D.P. The hinge region is required for solution dimerization of human progesterone receptor. *Keystone Symposia on Molecular & Cellular Biology: Steroid/Thyroid, Retinoic Acid Gene Family*, 1996.