

# CURRICULUM VITAE

**Marc J. Tetel**

## ADDRESS

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## 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  
Neuroscience Seminar 300  
Frontiers in Neuroscience 332
- 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: Courtney Ackeifi (MSP Scholar), Florence Doo, Lauren Fink,  
Dana Im (HHMI Sophomore Research, Endocrine Society Summer Research  
Fellowship, 2008), Rosalind Lai, Kathy Mu, Stephanie-Lydia Njemanze (MSP  
Scholar), Mackensie Yore (HHMI Sophomore Research)  
Skidmore College: Rachel Allen, Caitlin Kilts, Suzanne Murphy, Nora Siegal,  
Ibardo Zambrano (Higher Education Opportunity Program, HEOP), Kate Shea,  
Lena Webb (Endocrine Society Summer Research Fellowship, 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, (Total Costs: \$892,186)
- 2001-2002 National Institutes of Health and Office of Research on Women’s Health,  
“Mechanisms of Steroid Hormone Action in Brain”,  
PI, R55 DK61935, (Total Costs: \$100,000)
- 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**

- 2009 Presenter, 5th International Meeting on Steroids and the Nervous System, Torino, Italy  
Department of Endocrinology, Pathophysiology and Applied Biology, University of Milano, Italy  
Presenter, “Research and Teaching at a Liberal Arts College” and Panelist, “Career Life Balance Panel”, Endocrine Trainee Day, Endocrine Society Meeting, San Francisco
- 2008 Presenter, US/Japan Neurosteroid Symposium, Gifu, Japan

- Presenter, “Research and Teaching at a Liberal Arts College” and Panelist, “Career Life Balance Panel”, Endocrine Trainee Day, Endocrine Society Meeting, San Francisco
- 2007 Session Organizer and Presenter, “Novel Mechanisms of Hormone Action in Brain and Behavior”, Congress of the International Society for Neuroethology, Vancouver, Canada  
 Department of Biomedical Sciences, Tufts School of Veterinary Medicine, North Grafton, MA  
 Biology Department, Georgia State University, Atlanta, GA  
 Presenter; “Research and Teaching at a Liberal Arts College” Endocrine Trainee Day, Endocrine Society Meeting, Toronto, Canada  
 Reunion Faculty Lectures, Wellesley College  
 Career Seminar for Microbiology, Immunology and Cancer Biology Graduate Career Development Program, University of Minnesota  
 Boston Latin School, Boston, MA  
 Long Island Wellesley Club, Long Island, NY
- 2006 Chair, “Oxytocin, Vasopressin and Behavior Symposium”, Endocrine Society Meeting  
 Chair, “Steroid Receptors and Coregulators II Oral Session”, Endocrine Society Meeting  
 Reunion Faculty Lectures, Wellesley College  
 Biology Department, Union College, Schenectady, NY  
 Institute for Neurodegenerative Disorders, Massachusetts General Hospital, Charleston, MA
- 2005 Biology Department, Lehigh University, Bethlehem, PA
- 2003 Neuroscience Program, Michigan State University, East Lansing, MI  
 Center for Neuroscience Research and Research Experience for Undergraduates Training Program, University at Albany, SUNY, Albany, NY  
 Talk and Co-Chair of symposium, “Nuclear Receptor Coactivator Function in the CNS and Behavior”, Society for Behavioral Neuroendocrinology Meeting, Cincinnati, OH
- 2002 Society for the Study of Reproduction, 35<sup>th</sup> Annual Meeting, Baltimore, MD  
 Center for Neuroscience and Neuropharmacology, Albany Medical Center, Albany, NY  
 Chair of the 13<sup>th</sup> Frank Beach Award in Behavioral Neuroendocrinology Social, Society for Neuroscience Meeting, Orlando, FL  
 Biology Department, Middlebury College, Middlebury, VT.  
 Skidmore Pride Alliance and The Office of Residential Life, Skidmore College
- 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  
 Presenter, Workshop on Steroid Hormones and Brain Function, Breckenridge, CO  
 Neuroscience presentation to Talent Advancement Program for Psychology Freshman, UMass, Amherst, MA.
- 1997 Ligand Pharmaceuticals, Inc., San Diego, California  
 Grand Rounds, Department of Pathology, University of Colorado HSC, Denver, CO.  
 Biology Department, Colorado College, Colorado Springs, CO.  
 Psychology Society, Colorado College, Colorado Springs, CO.  
 Neuroscience Presentation to Biology Classes, Huxley High School, Aurora, CO.

- 1996 Department of Neurobiology, Weizmann Institute, Rehovot, Israel.  
Chair of “Molecular and Genetic Tools for Investigating  
Steroid Hormone Action in Brain” Symposium at Workshop on Steroid Hormones and Brain  
Function, Breckenridge, CO.
- 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  
Journal of Proteome Research  
Cancer Research  
Physiology and Behavior  
Neuroendocrinology  
Brain Research  
Hormones and Behavior  
Hippocampus  
Molecular Brain Research  
Molecular Neurobiology  
Neurochemistry International  
Steroids  
Psychoneuroendocrinology  
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  
Endocrine Society Summer Research Fellowships

### **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
2006-2008	Chair, Institutional Animal Care and Use Committee
2006-2008	Member, Committee of Education, Research and Development
2006-2008	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 (\* indicates undergraduate student author)

### Submitted

Cyr, N.E., Kua, L.H., Bruce, L.A., Chadwick, J.G., Tetel, M.J. and Wolfson, A.J. Thimet oligopeptidase is coexpressed with oestrogen receptor- $\alpha$  in the hypothalamus of female mice and regulated by oestradiol. **Journal of Neuroendocrinology**, submitted.

Melcangi, R.C., Giatti, S., Pesaresi, M., Caruso, D., Tetel, M.J. Neuroactive steroids and peripheral neuropathy. In: **Hormones in Neurodegeneration, Neuroprotection and Neurogenesis**. (Gravanis, A. and Mellon, S. Eds), Wiley-Blackwell, submitted.

Tetel, M.J. and Pfaff, D.W. Contributions of estrogen receptor- $\alpha$  and estrogen receptor- $\beta$  to the regulation of behavior. **Biochimica et Biophysica Acta**, submitted.

### Research Articles

Molenda-Figueira, H.A, \*Murphy, S.D., \*Shea, K.L., \*Siegal, N.K., Zhao, Y., Chadwick, J.G., Denner, L.A. and Tetel, M.J. Steroid receptor coactivator-1 from brain physically interacts differentially with steroid receptor subtypes. **Endocrinology**, 149: 5272-5279, 2008.

Gonzales, K.L., Tetel, M.J. and Wagner, C.K. Estrogen receptor  $\beta$  (ER $\beta$ ) modulates ER $\alpha$  responses to estrogens in the developing rat ventromedial nucleus of the hypothalamus. **Endocrinology**, 149: 4615-4621, 2008.

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**, 92: 1010-1018, 2007.

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.

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., 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. Intra-neuronal 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.

### **Reviews and Book Chapters**

Tetel, M.J. Modulation of steroid action in the central and peripheral nervous systems by nuclear receptor coactivators. **Psychoneuroendocrinology**, in press.

Pfaff, D.W., Tetel M.J. and Schober, J.M. Neuroendocrinology: Mechanisms by which hormones affect behaviors. In: **Handbook of Neuroscience for the Behavioral Sciences** (Bernston, G.G. and Cacioppo, J.T. Eds), New York, Wiley Press, pp. 99-118, 2009.

Tetel, M.J., Auger, A.P. and Charlier, T.D. Who's in charge? Nuclear receptor coactivator and corepressor function in brain and behavior. **Frontiers in Neuroendocrinology** 30, 328-342, 2009.

Tetel, M.J. and Lange, C.A. Molecular genomics of progestin actions. In: **Hormones, Brain and Behavior**, 2nd Edition (Pfaff, D.W., Arnold, A.P., Etgen, A.M., Fahrbach, S.E. and Rubin, R. Eds), Vol. 3, San Diego: Academic Press, pp. 1439-1465, 2009.

Tetel, M.J. Nuclear receptor coactivators: Essential players in steroid hormone action in brain and behavior. **Journal of Neuroendocrinology** 21: 229-237, 2009.

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.

Tetel, M.J. Nuclear receptor coactivators in neuroendocrine function. **Journal of Neuroendocrinology** 12: 927-932, 2000.

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 (recent)**

\*Tognoni, C.M., \*Ackeifi, C.A., Chadwick, Jr. J.C., Tetel, M.J. Cells in female mouse brain coexpress steroid receptors and nuclear receptor coactivators. Endocrine Society, P1-658, 2009.

\*Im, D, \*Yore, M.A., Chadwick, J.G., Tetel, M.J. Steroid Receptor Coactivator-2 (SRC-2) from rat brain interacts differentially with estrogen and receptor and progesterone receptor subtypes. Endocrine Society, P3-34, 2008.

\*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 progesterone 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.

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.