

# 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

2016-present Professor, Neuroscience Department, Wellesley College, MA  
2012-13, 2016-present Chair, Neuroscience Department, Wellesley College, MA  
2018-present Dorothy and Charles Jenkins Distinguished Chair in Science  
2009-present Member, Biological Chemistry Program, Wellesley College, MA  
2001-present Adjunct Member, Center for Neuroendocrine Studies, UMass  
2013-2016 Class of 1966 Associate Professor of Neuroscience, Wellesley College  
2009-2016 Associate Professor, Neuroscience Program, Wellesley College, Wellesley, MA  
2009, Spring Visiting Scholar, Department of Endocrinology, Pathophysiology and Applied Biology,  
University of Milan, Milano, Italy, Sponsor: Dr. Roberto Melcangi  
2007-2009 Assistant Professor, Neuroscience Program, Wellesley College, Wellesley, MA  
2005-2007 Assistant Professor, Department of Biological Sciences, Wellesley College, Wellesley, MA  
2001-2005 Assistant Professor, Department of Biology, Skidmore College,  
Saratoga Springs, NY  
Member, Neuroscience Program  
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; Center for Neuroendocrine Studies;  
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  
Brain, Behavior and Cognition: An Introduction to Neuroscience NEUR 100  
Introductory Cell Biology and Lab BISC 110  
Biology of Brain and Behavior BISC 213

Neuroendocrinology and Lab BISC/NEUR 315  
Neuroscience Seminar NEUR 300  
Frontiers in Neuroscience BISC 332

Summer 2011 Harvard Summer School Program in Trento, Italy  
Hormones, Brain and Behavior MBB S-94

2001-2005 Courses taught at Skidmore College  
Introduction to Biology BI 106  
Frontiers in Molecular Neuroscience BI 342  
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

Postdoctoral Fellows:

Eric Rutledge, 2002-2005

Liz Bless (NIH Re-entry Recipient), 2012-2015

Kalpana Acharya (MMPC Grant Recipient), 2012-present

## **GRANTS AND AWARDS**

### **External**

2017-present Otsuka Pharmaceuticals, "Effects of estradiol and gut microbiota on weight gain and anxiety in female mice on a high fat diet" (Total Costs, \$624,954)

2011-2018 National Institutes of Health, National Diabetes and Digestive and Kidney Diseases Division "Mechanisms of Steroid Hormone Action in Brain", PI, R01DK61935, (Total Costs: \$1,376,541)

2012-2015 National Institutes of Health, National Diabetes and Digestive and Kidney Diseases Division, Re-Entry Supplement to "Mechanisms of Steroid Hormone Action in Brain" for Dr. Elizabeth Bless, PI, R01DK61935, (Total Costs: \$452,846)

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, R01DK61935, (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 Progesterin 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)
- 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)
- 1998 Quest Diagnostics Young Investigator Travel Award for Endocrine Society Meeting
- 1997 Endocrine Society Travel Award
- Internal**
- 2014-2015 Vivian S. Lee Loh ’52 Award for Research in the Health Sciences, “Estrogen Effects on the Gut Microbiome in Female Mice” Wellesley College (Total Costs: \$10,000)
- 2009-2011 Brachman-Hoffman Fellowship, “Nuclear Receptor Coactivators and Estrogen Action in Mouse Brain”, Wellesley College (Total Costs: \$40,000)
- 1998-2000 Faculty Research Grant, University of Massachusetts, “Steroid Receptor Coactivator Function in Brain” (Total Direct: \$15,000)
- 2000 “Faculty Grant for Teaching”, Council on Teaching, Learning and Instructional Technology: Center for Teaching, Univ. of Massachusetts

#### **INVITED PROFESSIONAL TALKS AND PRESENTATIONS**

- 2021 Presentation to Biology and Biochemistry Club, Wellesley College  
Scholar-in-Residence, EXPLO at Colby High School Summer Program, Waterville, ME

2020 Speaker, Diabetes Virtual Camp, <https://www.diabetesvirtualcamp.org/>  
Panel member, Research Panel, Northwestern University Career Summit

2019 Member, External Review Team of Hamilton College Neuroscience Program

2018 Co-Chair, SBN Lehrman Award and SBN Young Investigator Symposium, International Congress of Neuroendocrinology, Toronto, Canada  
Panel member, Understanding Interview Day and the Tenure Process, Harvard Medical School (graduate students and postdocs), Boston, MA  
Scholar-in-Residence, EXPLO at Yale High School Summer Program, New Haven, CT

2017 Speaker and Roundtable Chair, Steroids and the Gut Microbiome-Brain Axis, 9th International Meeting on Steroids and Nervous System, Torino Italy  
Speaker, Neuroendocrine Dialogues, Harvard Medical School, Boston, MA  
Speaker, 16th Symposium of the Center for Neuroendocrine Studies, University of Massachusetts, Amherst, MA  
Keynote Speaker, National Organization of Research Development Professionals Northeast Region Meeting, Wellesley, MA  
Panel member, Understanding Interview Day and the Tenure Process, Harvard Medical School (graduate students and postdocs), Boston, MA  
Scholar-in-Residence, EXPLO at Yale High School Summer Program, New Haven, CT

2016 Endocrine Grand Rounds, “Mechanisms of steroid action: From the brain to the gut microbiome”, Mayo Clinic, Rochester, MN  
Speaker, Organization for the Study of Sex Differences, “Estradiol and diet alter the gut microbiome in female mice”, Philadelphia, PA.  
Moderator, Navigating Career Transitions: Lessons Learned as a New PI, Career Development Workshops, Endocrine Society Meeting, Boston, MA, 2016  
Scholar-in-Residence, EXPLO at Yale High School Summer Program, New Haven, CT

2015 Scholar-in-Residence, EXPLO at Yale High School Summer Program, New Haven, CT  
Panel member, Career Development Series, Brandeis University, Waltham, MA  
“Research and Teaching at a Liberal Arts College” Early Career Forum, Endocrine Society Meeting, San Diego, CA

2014 Department of Biology, Vassar College, Poughkeepsie, NY  
Panel Member, Authors Without Borders, Discussion, Sigma Xi and NSF, Boston, MA  
“Research and Teaching at a Liberal Arts College” Early Career Forum, Endocrine Society Meeting Chicago, IL

2013 Speaker, 7th International Meeting on Steroids and Nervous System, Torino Italy  
Speaker, Society for Behavioral Neuroendocrinology Meeting, Atlanta, GA  
“Research and Teaching at a Liberal Arts College” Early Career Forum, Endocrine Society Meeting, San Francisco, CA

2012 Department of Neurobiology and Anatomical Sciences, University of Mississippi Medical

Center, Jackson, MS  
Department of Structural & Cellular Biology, Tulane University School of Medicine, New Orleans, LA  
“Research and Teaching at a Liberal Arts College” Endocrine Trainee Day, Endocrine Society Meeting, Houston, TX  
Department of Biology, Stonehill College, Easton, MA

2011 Speaker, US-Latinoamerican Workshop in Neuroendocrinology, Vina del Mar, Chile  
Master Teacher, Pearson/Association for Psychological Science Webinar, Current Directions in Psychological Science Speaker Series, Behavioral Neuroscience  
“Research and Teaching at a Liberal Arts College” Endocrine Trainee Day, Endocrine Society Meeting, Boston, MA

2010 Speaker, in Epigenetic & Programming Mechanisms of Estrogen Action session, Endocrine Society Meeting, San Diego  
“Research and Teaching at a Liberal Arts College” Endocrine Trainee Day, Endocrine Society Meeting, San Diego  
Neuroscience and Behavior Program, Distinguished Alumni Series, University of Massachusetts, Amherst, MA

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

2008 US/Japan Neurosteroid Symposium, Gifu, Japan  
“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  
“Research and Teaching at a Liberal Arts College” Endocrine Trainee Day, Endocrine Society Meeting, Toronto, Canada  
Career Seminar for Microbiology, Immunology and Cancer Biology Graduate Career Development Program, University of Minnesota

2006 Chair, “Oxytocin, Vasopressin and Behavior Symposium”, Endocrine Society Meeting  
Chair, “Steroid Receptors and Coregulators II Oral Session”, Endocrine Society Meeting  
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  
Presenter 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

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  
Workshop on Steroid Hormones and Brain Function, Breckenridge, CO

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**

2012-2015 Editorial Board of *Endocrinology*  
2016-present Editorial Advisory Board of *Journal of Neuroendocrinology*  
2017-present Editorial Board of *Nuclear Receptor Research*  
2020-present Review Editor, *Frontiers in Endocrinology – Gut Endocrinology*

Ad-hoc Reviewer: *Behavioral Brain Research, Brain Research, Brain Research Bulletin, Cancer Research, DNA Sequence, Endocrinology, Experimental Neurology, Hippocampus, Hormones and Behavior, Journal of Neuroendocrinology, Journal of Neuroscience, Journal of Proteome Research, Journal of Undergraduate Neuroscience Education, Molecular Brain Research, Molecular Neurobiology, Neurochemistry International, Neuroendocrinology, Neuroscience, Neuroscience & Biobehavioral Reviews, Nuclear Receptor Signalling, Oncotarget, Physiology and Behavior, PLoS One, Proceedings of the National Academy of Sciences, Psychoneuroendocrinology, Steroids, Trends in Endocrinology and Metabolism*

National Academy of Sciences Arthur Sackler Colloquium

Textbook reviews: Wadsworth Publishing Company, Prentice Hall, Oxford University Press

2012 Reviewer of abstracts for Endocrine Society Meeting

### **SERVICE FOR GRANT REVIEWS**

Panel Member, Modulation II Proposal Review Panel, NSF, Spring 2010, Spring 2011

Ad-Hoc Member, ZRG1 Immunology Study Section, NIH, February 2004 & October 2004

Grant Review Board, Support of Mentors & their Students in the Neurosciences (SOMAS) 2005-2009

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

Health Research Council of New Zealand

Endocrine Society Summer Research Fellowships

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

2021-present member, Annual Meeting Steering Committee, Endocrine Society

1989-present Society for Neuroscience

1995-present Endocrine Society

1996-present Society for Behavioral Neuroendocrinology

2017-present Pan American Neuroendocrine Society

1997-present Faculty for Undergraduate Neuroscience

2020-present Society of Biological Psychiatry

2020-present Academic Engagement Network

2016 External evaluator for promotion, Gustavus Adolphus College, St. Peter, MN

2012-2015 Program Committee, Society for Behavioral Neuroendocrinology

2006-present Sigma Xi

2002-2009 Society for the Study of Reproduction

2007-2009 International Society for Neuroethology

2004-2009 Society for Experimental Biology and Medicine

2003-2006 Section Head of "Coregulator Function in Central Nervous System" division of NIH sponsored Nuclear Receptor Signaling Atlas website, [www.NURSA.org](http://www.NURSA.org)

2001-2003, 2005-06 Co-Chair, Center for Neuroendocrine Studies Symposium Committee

### **ACADEMIC SERVICE**

#### **Wellesley College**

2005-present Member, Neuroscience Advisory Committee

2010-present Member, Biological Chemistry Advisory Committee

2020-present Member, Trustee Campus & Finance Committee

2016-18, 2020-present Member, Faculty Benefits Committee

2020-present Member, Lab Safety Committee

2019-2020 Member, Board of Admissions

2018-2019 Chair, Faculty Benefits Committee

2018-2019	Member, Mortgage Program Oversight Committee
2016-2018	Member, Retirement Plan Investment Committee
2017-2019	Budget Advisory Committee on Compensation (BAC+)
2017-2018	Editorial Board, <i>The Spoke</i> , The Albright Institute's online magazine
2016	Visit to ECCO program at University of Bologna, Bologna Italy
2012-2017	Member, Sponsored Research Faculty Advisory Committee
2013-2015	Member, Quantitative Analysis Institute Steering Committee
2014-2015	Member, Fairchild Project Steering Committee
2012-2015	Member, Budget Advisory Committee
2014	Selection Committee, Albright Institute
2014	Member, Director of Sponsored Research Office Search Committee
2012-2013	Member, Quantitative Analysis Institute Working Group
2009-11, 2013-15	Member, Brachman-Hoffman/Staley Committee
2009-2012	Member, Financial Aid Committee
2010-2012	Tutor Liaison for Neuroscience Program
2010-2011	Member, Director of Student Financial Services Search Committee
2011	Member, Delegation to Jacobs University, Bremen, Germany
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

### **LITIGATION EXPERIENCE**

Authored an Expert Report for Krieg, Keller, Sloan, Reilley & Roman, LLP  
 California Southern District Court, San Diego, Judge John Houston  
 Neurorepair, Inc. vs. The Nath Law Group, Civil Action No. 3:2009cv00986

### **OUTREACH ACTIVITIES**

2009-present Presentation on Brain to preschoolers at Wellesley College Study Center

2009-2013 Organizer, Wellesley College Math Tutors for Wellesley Elementary School METCO program

2021 Panel on Faculty-Student Chat for Admissions Office, Wellesley College  
 Panel on Science at Wellesley for Admissions Office, Wellesley College  
 Presentation to the Wellesley Alumnae Club of Minnesota



Presentation to Posse 5, Wellesley College

Wellesley Korean Students Association Fundraiser, "Let's pie professors in the face!"

2020 Virtual Panel on "The Anti-Networking Event: Answering the 'Major' Questions", Northwestern University Alumni Association

Presentation and sheep brain dissection for students from Boston Prep School visit to Neuroscience Department

2019 Organizer and Presenter, Brain, Mind and Memory Course, Older Wiser Lifelong Learners (OWLL), Lexington Friends of the Council on Aging, Lexington, MA

Sheep brain dissection for students from Boston Prep School visit to Neuroscience Program

Presentation on stroke to Psychology class, Landmark High School, Beverly, MA

Model, Vintage Vogue Runway fashion show for Metastatic Breast Cancer Research, Wellesley

2018 Sheep brain dissection for students from Boston Prep School visit to Neuroscience Program

Presentations to Guidance Counselors visiting Wellesley Admission Office, Wellesley College

2017 Presentation to Greater Charlotte Wellesley Club, Charlotte, NC

Admissions Panel on Interdisciplinary Majors for Accepted Candidates, Wellesley College

Presentation for Family Weekend at Wellesley College

MetroWest Jewish Day School, middle school students, Framingham, MA

Presentation on Brain

Organizer for Tour of Neuroscience Labs at Wellesley College

Organizer of 3 week long Neuroscience presentations by Wellesley College Students

Organizer of the "Brain Booth", Wellesley Science & Technology Expo, Wellesley, MA

Organizer of sheep brain dissections for 4 science classes at Wellesley Middle School

STEM Team, MetroWest Jewish Day School

2016 Presentation to Chicago Wellesley Alumnae Club, Chicago, IL

Mentoring Lunch on Liberal Arts Colleges for Trainees, OSSD Meeting, Philadelphia, PA

Presentation to Guidance Counselors visiting Wellesley Admission Office, Wellesley College

2015 Presentation to the Albright Institute Fellows, Wellesley College

Presentation to Guidance Counselors visiting Wellesley College Admission Office, Wellesley College (April and June)

Organizer and Presenter, Neuroscience for the Layperson Course, Older Wiser Lifelong Learners (OWLL), Lexington Friends of the Council on Aging, Lexington, MA

Presentation on brain to 5th graders at MetroWest Jewish Day School, Framingham, MA

2014 Organizer and Presenter, Neuroscience for the Layperson Course, Older Wiser Lifelong Learners (OWLL), Lexington Friends of the Council on Aging, Lexington, MA

Presentation to Guidance Counselors visiting Wellesley College Admission Office, Wellesley College

Presentation on Biology of Sexual Orientation, Sexual Health Educators Student Organization, Wellesley College

Panel member, Panel for Admitted Students, Spring Open Campus, Wellesley College

Panel member, Learning and Teaching at Wellesley, Wellesley College Admissions Office, Wellesley College

MetroWest Jewish Day School, middle school students, Framingham, MA

Presentation on Brain

Organizer for Tour of Neuroscience Labs at Wellesley College

Organizer of 4 week long Neuroscience presentations by Wellesley College Students

Organizer of the "Brain Booth", Wellesley Science & Technology Expo, Wellesley, MA

2013 Panel Member, Academic and Industry Science Careers Panel, Joslin Diabetes Center, Harvard Medical School, Boston, MA

Panel Member, Grant Writing 101, Wellesley College

Panel member, Panel for Admitted Students, Spring Open Campus for Admissions, Wellesley College

Organizer for Neuroscience Student-led Brain Presentation to 4<sup>th</sup>-8<sup>th</sup> Graders at MetroWest Jewish Day School, Framingham, MA

Judge, Science Fair at MetroWest Jewish Day School, Framingham, MA

Member, Parents Action Committee, MetroWest Jewish Day School, Framingham, MA

2012 Presentation to Wellesley College Business Leadership Council, Boston Area Group, Wellesley, MA

Presentation to Wellesley College NC Piedmont Alumnae Club, Cary, NC

Panel Member, New Employee Orientation, Wellesley College

Panel member, "Distinctly Wellesley", Spring Open Campus for Admissions, Wellesley College

Presentation on Biology of Sexual Orientation to Sexual Health Educators Student Organization, Wellesley College

2011 Organizer, "Brain Booth" at the Hunnewell Elementary School Science Fair, Wellesley, MA

Presentation, Mind, Brain and Behavior Students, Harvard University, Cambridge, MA

Presentation on Biology of Sexual Orientation, Sexual Health Educators Student Organization, Wellesley College

Panelist, Tenure/Reappointment Panel with Junior Faculty for the Advisory Committee to the Committee on Faculty Appointments, Wellesley College

2010 Presentation on Brain to Wellesley 2<sup>nd</sup> Grade Brownies

2007 Reunion Faculty Lectures, Wellesley College

Boston Latin School, Boston, MA

Long Island Wellesley Club, Long Island, NY

2006 Reunion Faculty Lectures, Wellesley College

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

2001 Neuroscience presentation to Talent Advancement Program for Psychology Freshman, UMass, Amherst, MA.

## **PUBLICATIONS** (\* indicates undergraduate student author)

### **Research Articles**

Acharya, K.D., Noh, H.L., Graham, M.E., Suk, S., Friedline, R.H., \*Gomez, C., \*Parakoyi, A., Chen, J., Kim, J.K. and Tetel, M.J. Distinct Changes in Gut Microbiota are Associated with Estradiol-Mediated Protection from Diet-Induced Obesity in Female Mice., **Metabolites**, 11, 1-22, 2021.

Acharya, K.D., Nettles, S.A., Sellers, K.J., Lichti, C.F., Srivastava, D.P., Denner, L. and Tetel, M.J. Dopamine-induced interactions of female mouse hypothalamic proteins with progesterin receptor-A in the absence of hormone. **Journal of Neuroendocrinology**, 1-26, 2020.

\*Song, S.D., Acharya, K.D., \*Zhu, J.E., Deveney, C.M., Walther-Antonio, M.R.S., Tetel, M.J. and Chia, N. Daily vaginal microbiota fluctuations associated with natural hormonal cycle, contraceptives, diet and exercise. **mSphere**, 5, 1-14, 2020.

Acharya, K.D., \*Gao, X., Bless, E.P, Chen, J. and Tetel, M.J. Estradiol and high fat diet associate with changes in gut microbiota in female *ob/ob* mice. **Scientific Reports**, 9, 1-13, 2019.

Acharya, K.D., Nettles, S.A., Sellers, K.J., \*Im, D.D., \*Harling, M., Pattanayak, C., Vardar-Ulu, D., Lichti, C.F., Huang, S., Edwards, D.P., Srivastava, D.P., Denner, L. and Tetel, M.J. The progesterin receptor interactome in the female mouse hypothalamus: Interactions with synaptic proteins are isoform-specific and ligand-dependent. **eNeuro**, 4: 1-19, 2017.

Bless, E.P., \*Yang, J., Acharya, K.D., Nettles, S.A., Vassoler, F.M., Byrnes, E.M. and Tetel, M.J. Adult neurogenesis in the female mouse hypothalamus: Estradiol and high fat diet alter the generation of newborn neurons expressing estrogen receptor  $\alpha$ . **eNeuro**, 3: 1-11, 2016.

Acharya, K.D., \*Finkelstein, S.D., Bless, E.P., Nettles, S.A., Mulac-Jericevic, B., Conneely, O.M., Mani, S.K., Tetel, M.J. Estradiol preferentially induces progesterin receptor-A (PR-A) over PR-B in cells expressing nuclear receptor coactivators in the female mouse hypothalamus. **eNeuro**, 2: 1-12, 2015.

Bless, E.P., \*Reddy, T., Acharya, K.D., Beltz, B.S. and Tetel, M.J. Oestradiol and diet modulate energy homeostasis and hypothalamic neurogenesis in the adult female mouse. **Journal of Neuroendocrinology**, 26: 805-816, 2014.

Piccolella, M., Crippa, V., Messi, E., Tetel, M.J. and Poletti, A. Modulators of estrogen receptor inhibit proliferation and migration of prostate cancer cells. **Pharmacological Research**, 79: 13-20, 2014.

Bruce, L.A., Cyr, N.E., \*Qiao, J.W., \*DeFries, C.C., Tetel, M.J. and Wolfson, A.J. Neuropeptidase activity is down-regulated by estradiol in steroid sensitive regions of the hypothalamus in female mice. **Neuropeptides**, 46: 167-172, 2012.

Gonzales, K.L., Quadros-Menella, P.S., Tetel, M.J. and Wagner, C.K. Anatomically-specific actions of oestrogen receptor in developing female rat brain: Effects of oestradiol and selective oestrogen receptor modulators on progesterin receptor expression. **Journal of Neuroendocrinology**, 24: 285-291, 2012.

\*Tognoni, C.M, Chadwick, Jr., J.G., \*Ackeifi, C.A. and Tetel, M.J. Nuclear receptor coactivators are coexpressed with steroid receptors and regulated by estradiol in mouse brain. **Neuroendocrinology**, 94: 49-57, 2011.

\*Yore, M.A., \*Im, D., \*Webb, L.K., Zhao, Y., Chadwick, J.G.Jr., Molenda-Figueira, H.A., Haidacher, S.J., Denner, L.A. and Tetel, M.J. Steroid receptor coactivator-2 (SRC-2) expression in brain and physical associations with steroid receptors. **Neuroscience**, 169: 1017-1028, 2010.

Cyr, N.E., \*Kua, L.H., Bruce, L.A., Chadwick, J.G., Tetel, M.J. and Wolfson, A.J. Nuclear Thimet oligopeptidase is coexpressed with oestrogen receptor alpha in hypothalamic cells and regulated by oestradiol in female mice. **Journal of Neuroendocrinology**, 22: 936-943, 2010.

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 <sup>α</sup> (ER<sup>α</sup>) modulates ER <sup>α</sup> 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 modulate 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. # equal contributors to this work and should both be considered as first authors

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.

### Reviews and Book Chapters

Acharya, K.D., \*Parakoyi, A.E.R. and Tetel, M.J. Endocrine disruption and the gut microbiome. In: **Endocrine Disruption and Human Health**. Elsevier/Academic Press, 2<sup>nd</sup> Edition, In press.

Graham, M.E., Herbert, W.G., Song, S.D., \*Raman, H.N., \*Zhu, J.E., \*Gonzalez, P.E., Walther-Antônio, M.R.S. and Tetel, M.J. Gut and vaginal microbiomes on steroids: Implications for women's health. **Trends in Endocrinology and Metabolism** 32: 554-565, 2021.

Tetel, M.J., de Vries, G.J., Melcangi, R.C., Panzica, G.C. and O'Mahony, S.M. Steroids, stress and the gut microbiome-brain axis. **Journal of Neuroendocrinology**, 30, 1-8, 2018.

Tetel, M.J. and \*Lai, P-M.R. Steroid receptor coactivator family: SRC-1, SRC-2 and SRC-3. In: **Encyclopedia of Signaling Molecules**. (Choi, S. Ed), New York, Springer Press, pp. 5182-5187, 2<sup>nd</sup> Edition, 2018.

Giatti, S., Romano, S., Pesaresi, M., Cermenati, G., Mitro, N., Caruso, D., Tetel, M.J. Garcia-Segura, L.M. and Melcangi, R.C. Neuroactive steroids and the peripheral nervous system: An update. **Steroids** 103, 23-30, 2015.

Beltz, B.S., Benton, J.L., Conway, B.R., Johnson, B.R., Quinan, V., Tetel, M.J. and Wiest, M.C. Guest

Editorial: The 2014 FUN Achievement Award. **The Journal of Undergraduate Neuroscience Education** 13, E11-13, 2015.

Tetel, M.J. Rewards and challenges of a career in research and teaching at a liberal arts college, **Endocrinology**, 155: 4133-4136, 2014.

Tetel, M.J. and Acharya, K.D. Nuclear receptor coactivators: Regulators of steroid action in brain and behavior. **Journal of Neuroendocrinology**, 25: 1209-1218, 2013.

Mani, S.K., Mermelstein, P.G., Tetel, M.J., Anesetti, G. Convergence of Multiple Mechanisms of Steroid Hormone Action. **Hormone and Metabolic Research**, 44: 569-576, 2012.

Wolfson, A.J., Cyr, N.E., Bruce, L.A., \*Qiao, J.W., \*DeFries, C.C. and Tetel, M.J. Regulation of neuropeptidases involved in reproductive physiology by estradiol. In: **Estrogen Receptors: Mechanisms, Structure and Role in Disease**, (Chen, G.C. Ed), New York, Nova Science Publishers, pp. 61-67, 2012.

Melcangi, R.C., Giatti, S., Pesaresi, M., Caruso, D. and Tetel, M.J. Neuroactive steroids and peripheral neuropathy. In: **Hormones in Neurodegeneration, Neuroprotection and Neurogenesis**. (Gravanis, A. G. and Mellon, S. H. Eds), Wiley-VCH Press, pp. 121-135, 2011.

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**, 1800, 1084-1089, 2010.

Tetel, M.J. Modulation of steroid action in the central and peripheral nervous systems by nuclear receptor coactivators. **Psychoneuroendocrinology**, 34S1, S9-S19, 2009.

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 progesterin 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 for Poster Presentations (recent and selected)**

\*Raman H., Graham M.E., Acharya K.D., \*Parakoyi A, \*Corcoran A, Belete M, Ramaswamy B, Sachar I, Derendorf K, Gottipati S, and Tetel M.J. Effects of estradiol and high-fat diet on anxiety and gut microbiota in female mice. Society for Biological Psychiatry, 2020.

\*Raman H., Graham M.E., Acharya K.D., \*Parakoyi A, \*Corcoran A, Belete M, Ramaswamy B, Sachar I, Derendorf K, Gottipati S, and Tetel M.J. Changes in gut microbiota are associated with anxiety and estradiol treatment in female mice. Society for Neuroscience, 2020.

\*Song, S.D., Acharya, K.D. Deveney, C., Walther-Antonio, M.R., Tetel, M.J., and Chia, N. Association of the vaginal microbiota with menstruation, mood, and diet in healthy, young women. Society for Neuroscience, 2019.

Acharya, K.D., Graham, M.E., Noh, H.L., Suk, S., Friedline, R.H., Chen, J., Kim, J.K., Tetel, M.J. Estradiol-mediated protection from diet-induced obesity in female mice is associated with changes in gut microbiota. Society for Neuroscience, 2019.

\*Song, S.D., Acharya, K.D. \*Zhu, J., Walther-Antonio, M.R., Tetel, M.J., and Chia, N. Vaginal microbial diversity changes across the menstrual cycle in healthy young women. Endocrine Society, SUN-197, 2019.

Graham, M.E., Acharya, K.D., \*Parakoyi, A., \*Corcoran, A., Gottipati, S., and Tetel, M.J. Estradiol protects against high-fat diet-induced obesity and anxiety in female mice. Endocrine Society, SUN-474, 2019.

Acharya, K.D., Graham, M., Noh, H.L., Suk, S., Friedline, R., Chen, J., Kim, J.K., and Tetel, M.J. Distinct changes in gut microbiota are associated with estradiol-mediated protection from diet-induced obesity in female mice. Endocrine Society, SUN-091, 2019.

\*Gao, X., Acharya, K.D., Bless, E.P., Chen, J., Tetel, M.J. Leptin and Estradiol alter gut microbiota in female mice on a high fat diet. Endocrine Society, SAT-062, 2018.

Acharya K.D., Nettles S.A., Lichti C.F., Denner L., Tetel M.J. Identification of hypothalamic proteins involved in hormone-independent activation of PR by dopamine. Society for Neuroscience, 2017.

Acharya K.D., Nettles S.A., Lichti C.F., Denner L., Tetel M.J. Synaptic proteins and kinases from female hypothalamus associate with dopamine-activated progesterin receptors (PR) in the absence of hormone. Endocrine Society, 2017.

Acharya K.D., Nettles S.A., Lichti C.F., \*Harling M., Pattanayak C., Denner L., Tetel M.J. Progesterin receptors complex with synaptic proteins from female mouse hypothalamus in a ligand-dependent and isoform-specific manner. Society for Neuroscience, 2016.

Bless, E.P., \*Yang, J., \*Kim, Y., Acharya, K.D., Tetel, M.J. Generation of new estrogen receptor (ER)- $\alpha$  expressing cells in the adult female mouse hypothalamus is influenced by diet. Society for Neuroscience, 434.08, 2015

Bless, E.P., \*Reddy, T.P., Acharya, K.D., Tetel, M.J. The effects of estradiol and diet on energy homeostasis and hypothalamic cell proliferation in the adult female mouse. Society for Neuroscience, 2013.

Diederich, K.L., \*Wan, W.Y., \*Im, D., Vardar-Ulu, D., Dong, J., Thomas, P., Tetel, M.J. Steroid receptor coactivator-1 (SRC-1) and SRC-2 from mouse hypothalamus interact differentially with the mouse progesterin receptor isoforms. Society for Neuroscience, 482.10, 2012.

\*Wan, W.Y., Diederich, K.L., \*Im, D., Vardar-Ulu, D., Hood-DeGrenier, J., and Tetel, M.J. Steroid Receptor Coactivator-1 (SRC-1) and SRC-2 from mouse brain physically interact with mouse progesterin receptor. Endocrine Society, MON-351, 2012.