

## **Jeremy Alden Teissère, Ph.D.**

Assistant Professor of Biology and Neuroscience , Muhlenberg College  
Director, Neuroscience Program

Muhlenberg College  
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Allentown, Pennsylvania 18104  
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### **:: education ::**

Emory University                      Postdoctoral study, neuropharmacology. 2001 – 2003  
Atlanta, Georgia

University of Wisconsin              Ph.D., neuroscience. 1997 – 2001  
Madison, Wisconsin

Willamette University              B.A., English, *magna cum laude*. 1993 – 1997  
Salem, Oregon

### **:: professional experience ::**

2006 – present                      Assistant Professor of Biology and Neuroscience  
Muhlenberg College, Allentown, Pennsylvania

2004 – present                      Director, Program in Neuroscience  
Muhlenberg College, Allentown, Pennsylvania

2003 – 2006                      Assistant Professor, Department of Biology  
Muhlenberg College, Allentown, Pennsylvania

2001 – 2003                      Postdoctoral fellow, Department of Pharmacology  
Emory University, Atlanta, Georgia  
*Advisor: Randy Hall, Ph.D.*  
Focus: Structure and function of oligomeric associations of the GABA<sub>A</sub> receptor

2001 – 2003                      Instructor in Psychology, University College  
Oglethorpe University, Atlanta, Georgia

1997 – 2001                      Graduate Student, Neuroscience Training Program  
University of Wisconsin – Madison  
*Advisor: Cynthia Czajkowski, Ph.D.*  
Dissertation: Mapping benzodiazepine binding sites on GABA<sub>A</sub> receptors

### **:: professional affiliations ::**

1999 – present                      Society for Neuroscience

2003 – present                      Faculty for Undergraduate Neuroscience

2006 – present                      International Society for the History, Philosophy, and Social Studies of Biology

**:: awards and fellowships ::**

2006	Mellon Grant, Pilot Project for a Diversified Curriculum, Muhlenberg College
2005	Summer Research Grant Award, Muhlenberg College
2004	Center for Ethics Grant Award, Muhlenberg College
2004	Lectures & Forums Award, Muhlenberg College
2004	Faculty Center for Teaching Grant Award, Muhlenberg College
2003	Co-investigator, LI-COR DNA Sequencer Award, Muhlenberg College
2003	National Institutes of Health, Postdoctoral National Research Service Award
2002	Royal Society (UK) International Fellowship
2000 – 2001	National Institutes of Health, Predoctoral National Research Service Award
1998 – 2000	Neuroscience Training Program Fellowship, UW - Madison
1997 – 1998	Wisconsin Alumni Research Foundation Fellowship, UW - Madison
1997	<i>magna cum laude</i> , Willamette University
1996 - 1997	Bernice M. Rise Memorial Scholarship, Willamette University
1993 - 1997	Alumni Honors Scholarship, Willamette University

**:: teaching experience ::**

(Parenthetical notation indicates the number of times the course has been taught.)

Muhlenberg College, Allentown, Pennsylvania

2003 – present

NSC 101	<i>Mind and Brain</i> , with laboratory	(3)
BIO/NSC 248	<i>Neurobiology</i> , with laboratory	(4)
BIO/NSC 448	<i>Advanced Topics in Neuroscience</i>	(2)
NSC 380	<i>Neurotransmitter Receptor Structure and Function</i>	(1)
NSC 480	<i>Roots and Regulation of Pleasure</i>	(1)
BIO 115	<i>Drugs and Drug Abuse</i>	(1)
FYS 173/DNA 107	First Year Seminar: <i>Male, Female, &amp; Inbetween</i>	(3)
DNA 108	First Year Seminar: <i>Other Bodies</i>	(1)
RJF 450	Senior Seminar: <i>Culture of Change</i>	(1, co-instructor)

Oglethorpe University, Atlanta, Georgia

2001 - 2003

UCPSY 3821	<i>Physiological Psychology</i>	(3)
UCPSY 2881	<i>Drugs, the Brain and Behavior</i>	(2)
UCPSY 2871	<i>Cognitive Science</i>	(1)
UCMAT 2702	<i>Statistics</i>	(3)
UCPSY 4995	<i>Psychology of Sex and Gender</i>	(2)
UCGEN 1750	<i>Chemistry in Context</i> , with laboratory	(2)
UCGEN 1750	<i>Introduction to Cell Biology</i> , with laboratory	(1)

**:: publications ::*****Manuscripts***

Sancar F, Erickson S, Kucken A, Teissère JA, and Czajkowski C (2007) Structural determinants for high affinity zolpidem binding to GABA<sub>A</sub> receptors. *Mor Pharmacol* 71:38-46.

Balasubramanian S, Teissère JA, Raju DV and Hall RA (2004) Hetero-oligomerization between GABA<sub>A</sub> and GABA<sub>B</sub> receptors regulates GABA<sub>B</sub> receptor trafficking. *J Biol Chem* 279:18840-18850.

Kucken AM\*, Teissère JA\*, Seffinga-Clark J, Wagner DA and Czajkowski C (2002) Structural requirements for imidazobenzodiazepine binding to GABA<sub>A</sub> receptors. *Mol Pharmacol* 63:289-296.  
(\* *Denotes equal first author contribution*)

Teissère JA and Czajkowski C (2001) A  $\beta$ -strand in the  $\gamma_2$  subunit lines the benzodiazepine binding site of the GABA<sub>A</sub> receptor: Structural rearrangements detected during channel gating. *J Neurosci* 21:4977-4986.

Kucken AM, Wagner DA, Ward PW, Teissère JA, Boileau AJ and Czajkowski C (2000) Identification of benzodiazepine binding site residues in the  $\gamma_2$  subunit of the gamma-aminobutyric acid A receptor. *Mol Pharmacol* 57:932-939.

#### **Abstracts at Professional Meetings**

Sheard LB '07, McGinniss JE '06 and Teissère JA (2006) Dissecting neurosteroid modulation of the GABA<sub>A</sub> receptor using interreceptor chimeragenesis. Atlanta, GA: *Society for Neuroscience 2006 Annual Meeting*. Online.

Sancar F, Kucken A, Teissère JA, Ericksen S<sub>2</sub> and Czajkowski C (2005) Determinants of high affinity zolpidem binding in the  $\gamma_2$  subunit of the GABA<sub>A</sub> receptor. Washington, DC: *Society for Neuroscience 2005 Annual Meeting*. Online.

Teissère JA, Balasubramanian S and Hall RA (2002) Mutual regulation of the GABA<sub>A</sub> receptor and the  $\beta$ -adrenergic receptor is mediated by heterooligomeric association. 12<sup>th</sup> annual Neuropharmacology Conference on GABA<sub>A</sub> receptors in cellular and network excitability, Orlando, FL.

Teissère JA, Balasubramanian S and Hall RA (2002) Mutual regulation of the GABA<sub>A</sub> receptor and the  $\beta$ -adrenergic receptor is mediated by heterooligomeric association. Program No. 434.11. 2002 Abstract Viewer/Itinerary Planner. Washington, DC: *Society for Neuroscience*, 2002. Online.

Balasubramanian S, Teissère JA and Hall RA (2002) Direct interaction between GABA<sub>A</sub> and GABA<sub>B</sub> receptors. Program No. 434.12. 2002 Abstract Viewer/Itinerary Planner. Washington, DC: *Society for Neuroscience*, 2002. Online.

Teissère JA, Kucken AM, Wagner DA, Wheeler LA and Czajkowski C (2000) A new model for orientation of class III ligands in the benzodiazepine binding site of the GABA<sub>A</sub> receptor. *Soc Neurosci Abstr* 26:1145.

Teissère JA, Boileau AJ and Czajkowski C (1999) Elucidating the structure of the benzodiazepine binding site on the GABA<sub>A</sub> receptor by engineered sulfhydryl modification. *Soc Neurosci Abstr* 25:964.

Kucken AM, Teissère JA, Wagner DA, Boileau AJ and Czajkowski C (1999) Identification of benzodiazepine binding site residues in the  $\gamma_2$  subunit of the GABA<sub>A</sub> receptor. *Soc Neurosci Abstr* 25:964.

Holden JH, Boileau AJ, Teissère JA, Wagner DA and Czajkowski C (1999) Mapping the agonist binding site of the GABA<sub>A</sub> receptor: Evidence for a  $\beta$ -strand. *Soc Neurosci Abstr* 25:459.

**:: invited presentations ::**

“Building Normal Bodies: How Fear & Science Shape Who We Get to Be.” Sunday Teaching, Cathedral Church of the Nativity, Bethlehem, PA. November, 2006.

“A fire-breathing she-goat: Chimeric strategies for mapping receptor binding sites.” Biology Department Seminar Series, Muhlenberg College, Allentown, PA. February, 2006.

“The moral mind: Mapping the intersection of neuroscience and ethics.” Tuesday Teachings, Cathedral Church of the Nativity, Bethlehem, PA. October-November, 2005.

“Making necessary noise: Research and teaching at an undergraduate liberal arts college.” Careers in Science Seminar, Neuroscience Training Program, University of Wisconsin-Madison. October 14, 2005.

“The madwoman in the attic: Emerging unique signaling mechanisms in GABA<sub>A</sub> receptors.” Keynote address, Brain Awareness Week, Moravian College, Bethlehem, PA. March, 2005.

“Making the case for case studies.” Faculty Center for Teaching Seminar Series, Muhlenberg College. November, 2004

“Intermolecular Interactions in the underworld: Heterodimerization of the GABA<sub>A</sub> receptor and the  $\beta_1$  adrenergic receptor.” GPCR Seminar Series, Emory University, Atlanta, Georgia. March, 2003.

“Molecular dissection of a tango: Regulation of the GABA<sub>A</sub> receptor by modulators.” Invited speaker, St. Olaf College, Northfield, Minnesota. December, 2002.

“Molecular choreographies: Understanding the actions of drugs in the central nervous system.” CORE Seminar Series, Oglethorpe University, Atlanta, Georgia. February, 2002.

**:: mentored students ::**

- John McGinniss '06 (2006), Muhlenberg College  
Undergraduate research. Construction of chimeric receptors for the identification of neurosteroid binding sites on GABA<sub>A</sub> receptors.
- Laura Sheard '07 (2004 - 2007), Muhlenberg College  
Undergraduate summer research and (ongoing) honors research. Identification of the allopregnanolone binding site on the GABA<sub>A</sub> receptor. Funded by a competitive Undergraduate Summer Research Grant.
- John Gillespie '05 (2004), Muhlenberg College  
Undergraduate summer research. Defining the binding site on the GABA<sub>A</sub> receptor for neuroactive extracts of kava (*Piper methysticum*). Funded by a competitive Undergraduate Summer Research Grant.
- Cristina Bush (2003), Emory University  
Graduate student rotation and thesis. “Heterodimerization of the GABA<sub>A</sub> receptor intracellular loop with multiple G-protein coupled receptors.”
- Srividya Balasubramanian (2001 – 2003), Emory University  
Graduate student thesis. “Direct interaction of the GABA<sub>A</sub> and GABA<sub>B</sub> receptors.”

**:: academic service ::**

Muhlenberg College, Allentown, Pennsylvania  
2003 – present

***Ongoing service***

- Academic Policy Committee (2004-2007 term)
- Social Judicial Board (2004-2007 term)
- First-year student advisor (Classes of 2007-2010)

***One-time, ad hoc, and past service***

- Online registration *ad hoc* committee, Spring 2006
- Co-creator and co-facilitator, *The Ethics and Politics of Identity* (joint programming between the Center for Ethics, the Humanities Division, and the Lectures & Forums Committee), 2005-2006
- First year orientation diversity play consultant, Summers 2005 and 2006
- Summer research policy *ad hoc* committee, Spring 2005
- Writing Committee, 2004-2006 term
- President's Award reader and judge, 2004-2006
- Faculty Task Force member, Middle States Reaccreditation, 2004-2005
- Jack Kent Cooke Award advisor, 2003-2004

***Student club advising***

- RIBBON Project (2004 – present)
- Gay Straight Alliance (2004 – present)
- Synapse (2005 – present)

**:: community service and awards ::**

- Henry Award, People's Choice for Faculty, 2006 (Muhlenberg College)
- Bridgebuilders Award, Office of Academic Support, Fall and Spring 2004, Fall and Spring 2005 (Muhlenberg College)
- Muhlenberg College Hillel Board Member, 2005 – 2008 term
- Lehigh Valley AIDS WALK Board Member, 2004 – 2005 term

**:: references ::**

Marjorie Haas, Ph.D.  
*Provost*  
*Professor of Philosophy*  
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Ann E. Kelley, Ph.D.  
*Professor of Psychiatry*  
**University of Wisconsin – Madison**  
1300 University Avenue  
7001 Medical Sciences Center  
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Randy Hall, Ph.D.  
*Assistant Professor of Pharmacology*  
**Emory University**  
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Cynthia Czajkowski, Ph.D.  
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**University of Wisconsin – Madison**  
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197 Medical Sciences Center  
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