Marek Schwendt, Ph.D.
Curriculum Vitae

Correspondence:

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Positions:

Department of Psychology University of Florida Gainesville, FL	Assistant Professor	present	
Department of Psychology University of Florida Gainesville, FL	Research Assistant Professor	2012-2014	
Department of Neurosciences Medical University of South Carolina Charleston, SC	Research Assistant Professor	2007-2012	
Department of Neurosciences Medical University of South Carolina Charleston, SC	Postdoctoral Fellow	2003-2007	Neuroscience *Mentor: Dr. Jacqueline F. McGinty*
Institute of Exp. Endocrinology Slovak Academy of Sciences Bratislava, Slovakia	Staff Scientist	2002-2003	

Education:

Medical University of South Carolina Charleston, SC	Certificate	2006-2007	Undergraduate and Postgraduate Teaching Techniques. *CGS 725*
Joint doctoral program of Institute of Exp. Endocrinology & University of P.J. Safarik Bratislava, Slovakia	Ph.D.	1998-2002	Animal Physiology & Neuroendocrinology *Mentor: Dr. Daniela Jezova*
Comenius University Bratislava, Slovakia	M.Sc.	1994-1998	Biochemistry

Teaching Experience:

University of Florida	Lecturer	2013, 2014	Neurochemistry, Pharmacology and Behavior, PSB 4434
Medical University of South Carolina Charleston, SC	Guest Lecturer	2009, 2011	Neurobiology of Drug Addiction, Techniques in Neuroscience Research SURP 101
College of Charleston Charleston, SC	Guest Lecturer	2009, 2010	Seminars in Neuroscience BIOL 447/PSYC 447

Professional Societies:

Member, Society for Neuroscience
Member, Slovak Society for Neuroscience
Member, Molecular and Cellular Cognition Society

Editorial Boards:

Journal of Addiction & Prevention present

Funding:

Active:

DoD W81XWH-12-2-0048 09/01/13-08/31/14 TDC: $260,000
Institute of Molecular Neuroscience/Department of Defense
Knackstedt (PI), Schwendt (co-PI)
"Development of an animal model & novel treatments for comorbid PTSD and cocaine addiction"

Pending:

R01 *TDC: $1,250,000*
Schwendt (PI)
"Targeting mGluR1/5-interacting proteins to suppress cocaine-seeking"

R21 *TDC: $250,000*
Khoshbouei (PI), Schwendt (co-PI)
"Neuronal membrane potential regulates dopamine transporter trafficking"

R21 *TDC: $250,000*
Schwendt (PI), Setlow (co-PI)
"Dopamine-glutamate-adenosine synergism and risky-decision making"

Completed:

R21 DA025846 02/15/10-01/31/13 TDC: $275,000
Schwendt (PI)
"Striatal RGS4 interacts with mGluR5 signaling relapse to cocaine-seeking"

UL1 RR029882/TR000062 - Research Voucher 01/01/12-12/31/12 TDC: $1,000
Schwendt (PI) South Carolina Clinical and Translational Research Institute
"Dysregulated mGluR2/3 membrane trafficking and motivational and cognitive deficits resulting from chronic methamphetamine self-administration"

NARSAD - Young Investigator Award 01/01/10-12/31/12 TDC: $60,000
Schwendt (PI)
"The role of PICK1 in altered protein trafficking and behavioral plasticity resulting from chronic methamphetamine self-administration"

P50 DA015369 - Pilot Project Award 07/01/08-06/30/10 TDC: $25,000
Schwendt (PI) MUSC Neurobiology of Addiction Research Center
"The role of striatal RGS4 in the cellular mechanisms of cocaine-seeking after abstinence"

Awards/Invited presentations:

2012 Department of Psychology, University of Florida, Gainesville, FL *(invited speaker)*
2012 45th Winter Conference on Brain Research, Snowbird, UT (*panel organizer and moderator)*
2011 Prague Psychiatric Center, Charles University, Prague, Czech Republic (*international scholar travel fellowship)*
2011 SiNAPSA Neuroscience Conference, Ljubljana, Slovenia *(invited speaker)*
2011 Department of Neural and Behavioral Sciences, Penn State College of Medicine, Hershey, PA *(invited speaker)*
2010 Translation Research in Methamphetamine Conference, Pray, MT *(invited speaker)*

2008 GC/SC Neuroscience Consortium, Columbia, SC *(invited speaker)*
2007 International Society For Neurochemistry meeting, Cancun, Mexico *(travel award)*
2007 Motivational Neuronal Networks conference, Porquerolles, France *(travel award)*
2002 3rd Forum of European Neuroscience, Paris, France *(travel award)*
2001 Department of Neurosciences, University of Gothenburg, Sweden *(invited speaker)*
2001 *Kuffner Award* for Outstanding Research Publication, Society for Biological Psychiatry, Czech Republic
2000 The Royal Swedish Academy of Sciences, University of Gothenburg, Sweden *(exchange fellowship)*

Publications:

1. Knackstedt L.A., Trantham-Davidson H.L., **Schwendt M.**: The role of ventral and dorsal striatum mGluR5 in relapse to cocaine-seeking and extinction learning. *Addiction Biology* 19: 87-101, 2014.

2. **Schwendt M.**, Reichel C.M., See R.E.: Extinction-dependent alterations in corticostriatal mGluR2/3 and mGluR7 receptors following chronic methamphetamine self-administration in rats. *PLoS One,* 7: e34299, 2012.

3. **Schwendt M.**, McGinty J.F.: RGS4 overexpression in the rat dorsal striatum modulates mGluR5- and amphetamine-mediated behavior and signaling. *Psychopharmacology*, 221: 621-35, 2012.

4. Reichel C.M., Ramsey L.A., **Schwendt M.**, McGinty J.F., See R.E.: Methamphetamine-induced changes in the object recognition memory circuit. *Neuropharmacology*, 62: 1119-26, 2012.

5. Reichel C.M., **Schwendt M.**, McGinty J.F., Olive M.F., See R.E. Loss of object recognition memory produced by extended access to methamphetamine self-administration is reversed by positive allosteric modulation of metabotropic glutamate receptor 5. *Neuropsychopharmacology* 36:782-92, 2011.

6. Hearing M.C., **Schwendt M.**, McGinty J.F. Suppression of Activity-Regulated Cytoskeleton-Associated Gene Expression in the Dorsal Striatum Attenuates Extinction of Cocaine-Seeking. *Int J Neuropsychopharmacol* 14:784-95, 2011.

7. Knackstedt L.A., Moussawi K., Lalumiere R., **Schwendt M.**, Matthias K., Kalivas P.W.: Extinction training after cocaine self-administration induces glutamatergic plasticity to inhibit cocaine-seeking*. J Neurosci*, 30:7984-7992 2010.

8. **Schwendt M**., McGinty J.F. Amphetamine up-regulates AGS1 mRNA and protein levels in rat prefrontal cortex: the role dopamine and glucocorticoid receptors. *Neuroscience*, 168 :96-107, 2010.

9. **Schwendt M.**, Rocha A., See R.E., Pacchioni A.M., McGinty J.F., Kalivas P.W. Extended methamphetamine self-administration in rats results in a selective reduction of dopamine transporter levels in the prefrontal cortex and dorsal striatum not accompanied by marked monoaminergic depletion. *J Pharmacol Exp Ther*, 331:555-62, 2009.

10. McGinty J.F., Shi X., **Schwendt M**., Saylor A., Toda S.: Regulation of psychostimulant-induced signaling and gene expression in the striatum. *J Neurochem*, 104:1440-1449, 2008.

11. **Schwendt M**., McGinty J.F.: Regulator of G-protein signaling 4 interacts with mGluR5 receptors in rat striatum: Relevance to amphetamine behavioral sensitization. *J Pharm Exp Ther,* 323: 650-57, 2007.

12. **Schwendt M.**, Hearing C.M., See R.E., McGinty J.F.: Chronic cocaine reduces RGS4 mRNA in rat prefrontal cortex and dorsal striatum. *Neuroreport*, 18:1261-1265, 2007

13. **Schwendt M.**, Gold, S.J., McGinty J.F.: Acute amphetamine downregulates RGS4 expression in rat forebrain: distinct roles for D1 and D2 dopamine receptors. *J.Neurochem.* 96: 1606-15, 2006

14. Duncko R., **Schwendt M.**, Jezova D.: Altered glutamate receptor and corticoliberin gene expression in brain regions related to hedonic behavior in rats. *Pharmacol. Biochem. Behav.* 76: 9-16, 2003

15. Makatsori A., Duncko R., **Schwendt M.**, Moncek F., Johansson B.B., Jezova D.: Voluntary wheel running modulates glutamate receptor subunit gene expression and in stress hormone release in Lewis rats. *Psychoneuroendocrinol.* 28: 702-14, 2003

16. **Schwendt M.**, Duncko R., Makatsori A., Johansson B.B., Jezova D.: Involvement of glutamate neurotransmission in the development of excessive wheel running in Lewis rats. *Neurochem. Res.* 28: 653-657, 2003

17. Stastny F., **Schwendt M.,** Lisy V., Jezova D.: Main subunits of ionotropic glutamate receptors are expressed in isolated rat brain microvessels. *Neurol. Res.* 24: 93-96, 2002

18. Pirnik Z., **Schwendt M.**, Jezova D.: Single dose of morphine influences plasma corticosterone and gene expression of the main NMDA receptor subunit in the adrenal gland but not in the hippocampus. *Endocr. Reg.* 35: 187-193, 2001

19. **Schwendt M.**, Jezova D.: Glutamate receptors and transporters in central and peripheral tissues. *Cesk. Fyziol.* 50: 43 - 56, 2001 (review)

20. **Schwendt M.**, Jezova D.: Gene expression of NMDA receptor subunits in rat adrenals under basal and stress conditions *J. Physiol. Pharmacol.* 52: 719-727, 2001

21. **Schwendt M**., Jezova D.: Gene expression of two glutamate receptor subunits in response to repeated stress exposure in rat hippocampus. *Cell. Mol. Neurobiol.* 20: 319 -329, 2000

Book Chapters/Invited Reviews:

Jezova D, **Schwendt M.** Adrenal glutamate receptors: A role in stress and drug addiction? In: *Glutamate Receptors in Peripheral Tissue: Excitatory Transmission Outside the CNS.* Gill S, Pulido O. (Eds), Kluwer Academic Plenum Press, New York, 169-176, 2005.