

Darragh Patrick Devine, Ph.D.
Associate Professor
Director, Behavioral and Cognitive Neuroscience Program
University of Florida
Department of Psychology
P.O. Box 112250
Gainesville, FL, 32611-2250

office: (352) 273-2174
lab: (352) 273-2192
fax: (352) 392-7985
e-mail: dpdevine@ufl.edu
website: <http://www.psych.ufl.edu/~dpdevine/home/>

August 2010

Curriculum Vitae

Languages English and French
Citizenships Ireland and Canada (permanent resident USA)
Current Position **Associate Professor and Director**
Behavioral and Cognitive Neuroscience Program
University of Florida
Departments of Psychology and Neuroscience
Education **Post-Doctoral Research Fellowship**
University of Michigan, School of Medicine, Department of Psychiatry
Molecular and Behavioral Neuroscience Institute
(formerly Mental Health Research Institute)
Ann Arbor, Michigan,
supervisors: Huda Akil, Ph.D. & Stanley J. Watson, M.D., Ph.D.
1993 – 1998
Doctor of Philosophy (Ph.D.), Psychology
Concordia University
Center for Studies in Behavioral Neurobiology
Montréal, Québec, Canada
dissertation advisor: Roy A. Wise, Ph.D.
graduated 1993
Master of Arts (M.A.), Psychology
Carleton University
Department of Psychology
Ottawa, Ontario, Canada
thesis advisor: Nicholas P. Spanos, Ph.D.
graduated 1988
Bachelor of Science (B.Sc.), Psychobiology
Concordia University
Department of Psychology
Montréal, Québec, Canada
graduated 1982
Diplôme d'études collégiales (D.E.C.), Social Sciences
Dawson College C.E.G.E.P.
Montréal, Québec, Canada
graduated 1975

Honors and Awards

Colonel Allen R. and Margaret G. Crow Term Professor
University of Florida, 2010-2011

Feature story in recognition of undergraduate mentoring
University of Florida CLAS annual report, 2006-2007

Recognition for Mentoring Undergraduate “Anderson Scholars”
University of Florida, College of Liberal Arts and Sciences
fall 2001, fall 2005, fall 2008

“You Made a Difference” Faculty Honoree for Undergraduate Mentoring
University of Florida, College of Liberal Arts and Sciences
spring 2004

“Teacher of the Year” Award
University of Florida, College of Liberal Arts and Sciences
Awarded spring 2003

Society for Neuroscience Annual Press Book
Featured research on self-injury from my laboratory
fall 2002

Spokesperson, Concordia University Campaign to promote Graduate Studies
1995 and 1996

Governor General of Canada's Gold Medal for Research
awarded October 1994

James McKeen Cattell Award
Section of Psychology, New York Academy of Sciences
Finalist, June 1995

Prix d'Excellence de l'Académie des Grands Montréalais
Finalist, June 1994



Research Experience

Associate Professor (2005 – present)

Assistant Professor (1998 – 2005)

University of Florida
Behavioral Neuroscience Program
Departments of Psychology and Neuroscience
Gainesville, Florida

Post-Doctoral Research Associate (1993 – 1998)

University of Michigan, School of Medicine, Department of Psychiatry
Mental Health Research Institute
Ann Arbor, Michigan,

supervisors: Huda Akil, Ph.D. & Stanley J. Watson, M.D., Ph.D.

Research Assistant (1988 – 1993)

Concordia University
Center for Studies in Behavioral Neurobiology and Department of Psychology
Montréal, Québec, Canada

supervisor: Roy A. Wise, Ph.D.

Research Assistant (1986 – 1988)

Carleton University
Department of Psychology
Ottawa, Ontario, Canada

supervisor: Nicholas P. Spanos, Ph.D.

**Clinical
Experience**

Behaviour Consultant and Assistant Coordinator (1986 – 1988)

Ottawa-Carleton Behaviour Management &
Children's Aid Society of Ottawa-Carleton
1370 Bank St.
Ottawa, Ontario, Canada K1H 7Y3

Pavilion Head (Clinical Manager) (1980 – 1986)

Les Promotions Sociales Taylor-Thibodeau
Garry Taylor Center
231 Elm Ave.
Beaconsfield, Québec, Canada H9W 2E2

Educator (1976 – 1980)

Child Care and Child Development Centers Inc.
Garry Taylor Center
231 Elm Ave.
Beaconsfield, Québec, Canada H9W 2E2

In these three clinical positions, I used a model of applied behaviour analysis to treat maladaptive behaviour disorders and skill deficits in autistic, intellectually-handicapped and brain-injured individuals. In all three positions, I specialized in assessment and treatment of severe self-injurious behavior, a debilitating characteristic that is highly prevalent in autism and other neurodevelopmental disorders. I supervised a team of Behaviour Consultants and a few teams of Educators and Child Care Specialists. I also provided training courses for parents, teachers, staff, and other professionals who worked with the affected individuals. In addition, I lectured at a variety of Colleges in the Montréal and Ottawa areas, speaking to diverse populations (e.g. Early Childhood Education Association of Ottawa-Vanier, Canadian Association for Head Injury) about the management of behaviour disorders in developmentally-disabled and brain-injured individuals.

My clinical interests in neurodevelopmental disorders and self-injury contributed significantly to my research interests in Neuroscience. Hence, my laboratory is committed to a comprehensive research program that investigates the neurobiological basis of vulnerability for self-injury using animal models.

**Teaching
Experience**

Associate Professor, 2005 – present

Assistant Professor, 1998 – 2005

University of Florida, Department of Psychology
Behavioral Neuroscience Program
Gainesville, Florida

undergraduate courses:

PSB 3004, Physiological Psychology
PSB 3912, Introduction to Research in Physiological Psychology
PSB 3054/3340, Behavioral Neuroscience
PSB 4810, Neurobiology of Learning and Memory
PSB 4934, Behavioral Neuroendocrinology
PSB 4905, Individual Research
PSY 4970, Senior Thesis Research
IDS 4906, Interdisciplinary Senior Thesis Research in Neurosciences

graduate courses:

PSB 5935, Foundations of Molecular Neurobiology
PSB 6099, Graduate Proseminar in Physiological and Comparative Psychology
PSB 6930, Molecular Neurobiology
PSB 7248, Neurobiology of Stress and Stress-Related Psychopathology
PSB 7249, Mechanisms of Neuroplasticity

Teaching

Course Instructor, 1995 – 1998

Experience (cont'd...) University of Michigan, School of Medicine, Department of Psychiatry
Ann Arbor, MI, 48109-0720

undergraduate courses:
UC 280, Undergraduate Research Opportunities

Teaching Assistant, 1988 – 1989

Concordia University
Center for Studies in Behavioral Neurobiology and Department of Psychology
Montréal, Québec, Canada H3G 1M8

undergraduate courses:
PSYC 310, Research Methods I
PSYC 311, Research Methods II
PSYC 315, Statistical Analysis I
PSYC 316, Statistical Analysis II

Graduate Students and Post-Docs Supervised (as primary mentor/chair of thesis committee):

name	dates	program	UF degree earned	UF degree pending	current placement
Martin Repetto, M.D., Ph.D.	1999-2000	Post-doctoral fellow	post doc		Psychiatrist, University of Illinois, Champaign IL
Jaime Tartar (Simpkiss), Ph.D.*	2000-2004	Psych – Beh Neurosci	Ph.D.		Assistant Professor Nova Southeastern Univ.
Staci Kies, B.A., M.S.	2000-2003	Psych – Beh Neurosci	M.S.		Private Practice, Atlanta GA
Michael A. Misilmeri, M.S.	1999-2003	Psych – Beh Neurosci	M.S.		Pharma Rep, California
Kristen Stone, M.S.	2004-2007	Psych – Beh Neurosci	M.S.		Advanced Learning Center Altamonte Springs, FL
Megan K. Green, Ph.D.*	2003-2007	Psych – Beh Neurosci	M.S., Ph.D		Post-doctoral fellow, University of Texas
Amber Muehlmann, M.S.*, **	2003-present	Psych – Beh Neurosci	M.S.	Ph.D.	U. Florida, Psychology
Nathan Weinstock, B.S.	2005-2009	Psych – Beh Neurosci	B.S., M.S.		U. Florida, Psychology
Catherine Marcinkiewicz, M.S.	2007-present	IDP - Neuroscience	M.S.	Ph.D.	U. Florida, Neuroscience
Ryan Keith (co-chair)	2010-present	Psych – Beh Neurosci		M.S., Ph.D.	U. Florida, Psychology
Stacey Reynolds, Ph.D.	2010-present	K-12 Post-doctoral Research Associate			U. Florida, Psychology (Assistant Professor)
William Lin, B.S.	fall 2010	Psych – Beh Neurosci		M.S., Ph.D.	U. Florida, Psychology
Xiaomeng Yuan, B.S.	fall 2010	Psych – Beh Neurosci		M.S., Ph.D.	U. Florida, Psychology

* indicates winners of the Robert A. and Phyllis Levitt Award

** indicates winner of the Schumacher Award

Undergraduate Students Supervised (as primary mentor/chair of thesis committee):

name	dates	program	UF degree earned	UF degree pending	current placement
Jennifer Felger, B.S.	2000-2001	Psychology	B.S.		Emory U. Biol/Biomed Sci
Fabian Fernandez, B.S. *, **	2001-2002	IDS Behav Neurosci	B.S.		Stanford U. Neurosciences
Martina C. Bauer, B.S. *	2002-2004	IDS Behav Neurosci	B.S.	M.D.	U. Florida Sch of Medicine
Carrie A. Hersh *	2002-2005	IDS Behav Neurosci	B.S.		Nova Southeastern U.
Kir-Wei Chen	2004-2006	Psychology	B.S.		Boston U Sch of Medicine
Allessa Duren	2004-2006	IDS Behav Neurosci	B.S.		FSU School of Medicine
Andrea Naccarato *, **	2004-2007	IDS Behav Neurosci	B.S.		Mote Marine laboratory
Emily Barbieri *	2004-2007	IDS Behav Neurosci	B.S.		Washington State Univ
Jenny Wilkinson *, **	2004-2007	IDS Behav Neurosci	B.S.	M.D.	U. Florida Sch of Medicine
Christopher McDonald	2007-2008	Psychology	B.S.		FSU School of Medicine
Peter Duarte	2004-2008	IDS Behav Neurosci	B.S.		
Evan Loewy ***	2007-2009	IDS Behav Neurosci	B.S.		U Miami Sch of Medicine
Shannon Wolfman ***	2006-2010	IDS Behav Neurosci	B.S.		U. of Chicago
Kanita Beba ***	2007-2010	IDS Behav Neurosci	B.S.		U. Florida Sch of Medicine
Karly Lorbeer	2009 - present	Psychology		B.S.	U. Florida
Gabriella Fernandez	2009 - present	Psychology		B.S.	U. Florida

* indicates members of University Scholars program

** indicates Anderson Scholars

*** indicates Howard Hughes Medical Institute “Science for Life” Scholar

Graduate Students Supervised as secondary mentor/member of thesis committee:

name	dates	program	UF degree earned	UF degree pending	current placement
Laurie Geran, Ph.D.	1998-2003	Psych – Beh Neurosci	Ph.D.		Post-doctoral fellow Ohio State University
Cortney Turner, Ph.D.	1999-2003	Neuroscience	Ph.D.		Post-doctoral fellow University of Michigan
Michelle Miller, M.S.	2000-2002	Psych – Beh Analysis	M.S.		
Steven Rowell, M.S.	2004-2005	Psychology	M.S.		
Cheryl Vaughan, Ph.D.	2000-2006	Psych – Beh Neurosci	M.S., Ph.D.		Post-doctoral fellow Georgia State University
Chris King, Ph.D.	2000-2006	Neuroscience	Ph.D.	Post-doc	Research Assistant Professor University of Florida
Irene Glenn, M.S.	2003-2006	Psych – Beh Analysis	M.S.		
David Dietz, Ph.D.	2002-2007	Neuroscience	M.S. Ph.D. (FSU)		Post-doctoral fellow Mt. Sinai Medical Center
Anaya Mitra, Ph.D.	2006-2008	Psych – Beh Neurosci	M.S., Ph.D.		Post-doctoral fellow University of Minnesota
Linda Wen-Hua Lee, Ph.D.	2003-2009	Neuroscience	M.S., Ph.D.		Post-doctoral fellow U. Florida
Yoko Tanimura, Ph.D.	2004-2010	Psych – Beh Neurosci	M.S., Ph.D.		Post-doctoral fellow U. Rochester Med Center
Jolene Sy	2008 - present	Psych – Beh. Analysis		Ph.D.	U. Florida
Thiago Love-Leonor	2010 - present	Neuroscience		Ph.D.	U. Florida

Undergraduate Students Supervised as secondary mentor/member of thesis committee:

name	dates	program	UF degree earned	UF degree pending	current placement
Sean Kearns, B.S.	1999-2000	IDS Behav Neurosci	B.S.		Grad student, U. Florida
Sharon Karackattu, B.S.	1999-2000	IDS Behav Neurosci	B.S.		Grad student, MIT
Jolie Haun, B.S.	1999-2000	Psychology	B.S.		Grad student, Florida State U
Leslie Guttman, B.S.	2000-2002	IDS Behav Neurosci	B.S.		
Jesse Cushman, B.S.	2000-2002	IDS Behav Neurosci	B.S.		Grad student, UCLA
Alexander Bayevsky, B.S.	2003-2004	IDS Behav Neurosci	B.S.		
Sarah Williams, B.S.	2003-2005	IDS Behav Neurosci	B.S.		
Courtney Whitehurst, B.S.	2004-2005	IDS Behav Neurosci	B.S.		
Jessica Saul, B.S.	2004-2005	Psychology	B.S.		
Althea Bardin, B.S.	2005-2006	Psychology	B.S.		
Randy Colvin	2004-2007	IDS Behav Neurosci	B.S.		
Tana Bleser	2006-2007	Psychology	B.S.		Grad student, U Florida
Rebecca Wright	2006-2007	IDS Behav Neurosci	B.S.		
Ellen Espenschied	2006-2008	IDS Behav Neurosci	B.S.		
Parin Chheda	2006-2007	IDS Behav Neurosci	B.S.		
Samantha Baer *	2007-2008	IDS Behav Neurosci	B.S.		
Sara El-Sherbini	2007-2009	Psychology	B.S.		
Nicholas Maling	2008-2009	IDS Behav Neurosci	B.S.		
Emily Korszen	2010-2010	IDS Behav Neurosci	B.S.		
Jessica McElroy	2009-2010	IDS Behav Neurosci	B.S.		
Christopher Herring	2009-2010	Psychology	B.S.		
Elon Richman	2009-present	IDS Behav Neurosci		B.S.	

* indicates member of University Scholars program

Research Funding
Current Funding

Congressionally Directed Medical Research Programs

Department of Defense

Autism Research Program Concept Award

Self-Injurious Behavior: An Animal Model of an Autism Endophenotype

role: Principal Investigator

May 2010 – May 2011

NIH – National Institute on mental Health (N.I.M.H.)

A Novel Class of Orally-Applied Inhibitors of Aggressive Behaviour

#K18 OD008065-01

role: co-Principal Investigator and Mentor

September 2010 – September 2011

NIH - National Institute on Drug Abuse (N.I.D.A.)

A Home-Based Behavioral Treatment for Cigarette Smoking

#R01 DA019580

role: co-Investigator (Jesse Dallery is PI)

April 2007 – March 2011

NIH - National Institute on Child Health and Human Development (N.I.C.H.D.)

Rehabilitation Research Career Development Program

An Investigation into the Neurobiological Basis of Sensory Processing Disorder

#K12 HD055929

role: Mentor (Krista Van Den Borne and Kenneth Ottenbacher are coPIs)

February 2010 – January 2013

NIH - National Institute of Neurological Disease and Stroke (N.I.N.D.S.)

Integrative and Translational Training in Pain Research

#T-32 training grant

role: Mentor

Pending Funding

NIH - National Institute on Mental Health (N.I.M.H.)

Individual Differences in Stress Responsiveness Predict Vulnerability for Self-Injurious Behavior

application #R01 MH091188-01

role: Principal Investigator

revision in preparation

NIH - National Institute on Child Health and Human Development (N.I.C.H.D.)

Self-Injurious Behavior: Studies of the Role of DARPP-32 Signaling

application #R03 HD066206-01

role: Principal Investigator

revision under review

Past Funding

NIH - National Institute on Mental Health (N.I.M.H.)

Vulnerability for Self-Injurious Behavior: Neurobiological Mechanisms

#F31 MH079675

role: Mentor

May 2008 – April 2010

NIH - National Institute on Aging (N.I.A.)

Neurobiological Mechanisms of Cognitive Impairment in Aging

#T-32 training grant

role: Mentor

August 2008 – August 2010

Research Funding (cont'd...)

UF – CLAS Preliminary Study Grant (P.S.G.)

Self-Injurious Behavior: Biochemical Basis for Individual Differences in Vulnerability

role: Principal Investigator

May 2009 – May 2010

National Science Foundation (N.S.F.)

Stress-Modulating Actions of Orphanin FQ (N/OFQ)

grant #0515136

role: Principal Investigator

August 2005 – August 2009

Cure Autism Now Foundation (C.A.N.)

Self-Injurious Behavior: Pharmacological Studies in a Rat Model

role: Principal Investigator

February 2006 – October 2008

National Alliance for Autism Research (N.A.A.R.)

Self-Injurious Behavior: Pharmacotherapy in a Rat Model

role: Principal Investigator

August 2005 – August 2007

Evelyn F. McKnight Brain Research Foundation

Chronic Stress-Induced Neuroadaptations Cause Age-Associated Memory Impairment

role: Principal Investigator

December 2002 – August 2006

National Institutes of Health (N.I.C.H.D.)

grant #1R03 HD38239-01

Self-Injurious Behavior: Identification of Molecular Markers

role: Principal Investigator

April 2001 – October 2003

National Institutes of Health (N.I.D.A.)

grant #R01 DA08920-06A1

The Orphanin System: Role in Stress and Addiction

role: co-Investigator (Huda Akil was P.I.)

December 1999 – November 2005

National Institutes of Health (N.I.M.H.) R21

grant #1 R21 MH65678-01

Repetitive and Stereotyped Behavior Disorders in Autism

Development of the Florida Autism Center of Excellence

role: co-Investigator and Director of the Behavioral Neuroscience Core (Mark H. Lewis was P.I.)

October 2001 – September 2003

Research Opportunities Fund Award

Self-Injurious Behavior: Identification of Environmental Determinants

role: Principal Investigator (Mark H. Lewis was co-P.I.)

April 2001 – March 2002

Research Funding (cont'd...)

CLAS Research Award (UF)

Stress-Modulating Actions of Orphanin FQ

role: Principal Investigator

February 2001 – January 2002

CLAS Research Award (UF)

Self-Injurious Behavior: Molecular Markers for Initiation & Recovery

role: Principal Investigator

January 1999 – December 1999

Fellowships

Fonds de la Recherche en Santé du Québec (F.R.S.Q.)

Dopaminergic Regulation of Opioid Receptor Gene Expression

Post-doctoral Fellowship

1993-1996

Medical Research Council of Canada (M.R.C.)

Behaviourally-Reinforcing Actions of Opioids in the Ventral Tegmentum

Post-graduate Fellowship

1991-1992

Natural Sciences and Engineering Research Council of Canada

Opioid Receptor Regulation of Mesolimbic Dopamine Neurotransmission

Post-graduate Fellowship

1989-1991

Fonds pour la Formation de Chercheurs et l'Aide à la Recherche

D₁ and D₂ Dopamine Receptor Functions in the Substantia Nigra

Post-graduate Fellowship

1989-1990

Publications:

Thesis and Dissertation:

1. Devine, D. P. (1993). The involvement of ventral tegmental opioid receptors in mediation of opiate-reward and in modulation of mesolimbic dopamine: Behavioural and neurochemical analyses, *Doctoral Dissertation*, Concordia University, Montréal, Canada.
2. Devine, D. P. (1988). An empirical evaluation of the latent structure of cognitive analgesia strategies, *Master's thesis*, Carleton University, Ottawa, Canada.

Invited Papers in Preparation:

1. Devine, D.P. (in preparation). Self-injurious behavior: Biochemical factors that confer vulnerability in intellectually-handicapped populations, *Journal of Intellectual Disabilities Research*.
* This paper is an invited *Annotation*. The journal publishes a maximum of 4 of these reviews per year.
2. Devine, D.P. (in preparation). The impacts of environmental complexity and stress on vulnerability for self-injury: Studies in an animal model, *Journal of Intellectual Disabilities Research*.

Invited Book Chapters in Press:

1. Devine, D.P. (in press). Animal Models of Self-Injurious behaviour: An Overview, In: *Psychiatric Disorders: Methods and Protocols*, F. H. Kobeissy (Ed.), Humana Press, New York, NY.
2. Devine, D.P. (in press). The Pemoline Model of Self-Injurious Behaviour, In: *Psychiatric Disorders: Methods and Protocols*, F. H. Kobeissy (Ed.), Humana Press, New York, NY.

Publications (cont'd...):

Peer-Reviewed Published Papers:

1. Muehlmann, A.M., Wilkinson, J.A., and Devine, D.P. (revision under review). Individual differences in vulnerability for self-injurious behavior: Studies using an animal model, *Behavioural Brain Research*.
2. Green, M. K., Devine, D. P., Vierck, C. J., and Yeziarski, R. P (submitted). Effects of duloxetine on nociceptive reflexes and operant measures of pain, *Pain*.
3. Green, M. K. and Devine, D. P. (2009). Nociceptin/Orphanin FQ and NOP receptor gene regulation after single or repeated social defeat exposure, *Neuropeptides*, **43**: 507-514.
4. Marcinkiewicz, C.A., Green, M.K., Devine, D. P., Duarte, P., Vierck, C. J., and Yeziarski, R. P. (2009). Social defeat stress potentiates thermal sensitivity in operant models of pain processing, *Brain Research*, **1251**: 112-120.
**** recommended by Faculty of 1000 Medicine, March 4 2009.**
5. Devine, D. P. and Muehlmann, A. M. (2009). Tiermodelle für selbstverletzendes Verhalten (Animal models of self-injurious behaviour), In: *Selbstverletzendes Verhalten bei stressassoziierten Erkrankungen (Self-Injurious Behaviour in Stress-Associated Disorders)*, C. Schmahl and C. Stiglmayr (Eds.), pp 39-60, Verlag W. Kohlhammer, Stuttgart.
6. Muehlmann, A.M. and Devine, D. P. (2008). Glutamate-mediated neuroplasticity in an animal model of self-injurious behaviour, *Behavioural Brain Research*, **189**: 32-40.
7. Muehlmann, A.M., Brown, B.D. and Devine, D. P. (2008). Pemoline-induced self-injurious behavior: a rodent model of pharmacotherapeutic efficacy, *Journal of Pharmacology and Experimental Therapeutics*. **324**: 214-223.
*** 2 citations in peer-reviewed journals**
8. Green, M.K., Barbieri, E.V., Brown, B.D., Chen, K.-W., and Devine, D. P. (2007). Roles of the bed nucleus of stria terminalis and of the amygdala in N/OFQ-mediated anxiety and HPA axis activation, *Neuropeptides*, **41**: 399-410.
*** 10 citations in peer-reviewed journals**
9. King, C.D., Devine, D. P., Vierck, C. J., Mauderli, A., and Yeziarski, R. P. (2007). Opioid modulation of reflex versus operant responses following stress in the rat, *Neuroscience*, **147**: 174-182.
*** 8 citations in peer-reviewed journals**
10. Blake, B. L., Muehlmann, A. M., Egami, K., Breese, G. R., Devine, D. P., and Jinnah, H. A. (2007). Nifedipine suppresses self-injurious behaviors in animals, *Developmental Neuroscience*, **29**: 241-250.
*** 4 citations in peer-reviewed journals**
11. Tartar, J. L., King, M. A., and Devine, D. P. (2006). Glutamate-mediated neuroplasticity in a limbic input to the hypothalamus, *Stress*, **9**: 13-19.
*** 4 citations in peer-reviewed journals**
12. Kies, S. D. and Devine, D. P. (2004). Self-injurious behaviour: a comparison of caffeine and pemoline models in rats, *Pharmacology Biochemistry & Behavior*, **79**: 587-598.
*** 6 citations in peer-reviewed journals**
13. Fernandez, F., Misilmeri, M. A., Felger, J. C., and Devine, D. P. (2004). Nociceptin/Orphanin FQ increases anxiety-related behaviour and circulating levels of corticosterone during neophobic tests of anxiety, *Neuropsychopharmacology*, **29**: 59-71.
*** 32 citations in peer-reviewed journals**
14. King, C. D., Devine, D. P., Rodgers, J., Vierck, C. J., and Yeziarski, R. P. (2003). Differential effects of stress on escape and reflexive responses to noxious thermal stimuli in the rat, *Brain Research*, **987**: 214-222.
*** 32 citations in peer-reviewed journals**
15. Kabbaj, M., Yoshida, S., Numachi, Y., Matsuoka, H., Sato, M., Devine, D. P., and Ueda, T. (2003). Methamphetamine differentially regulates hippocampal glucocorticoid and mineralocorticoid receptor mRNAs in Fisher and Lewis rats, *Molecular Brain Research*. **117**: 8-14.
*** 3 citations in peer-reviewed journals**
16. Simpkins, J. L. and Devine, D. P. (2003). Responses of the HPA axis after chronic variable stress: effects of novel and familiar stressors, *Neuroendocrinology Letters*. **24**: 75-81.
*** 19 citations in peer-reviewed journals**

Publications (cont'd...):

Peer-Reviewed Published Papers:

17. Devine, D. P., Hoversten, M. T., Ueda, Y., and Akil, H. (2003). Nociceptin/orphanin FQ content is decreased in forebrain neurones during acute stress, *Journal of Neuroendocrinology*, **15**: 69-74.
* **20 citations in peer-reviewed journals (includes 3 abstract citations)**
18. Devine, D. P., Watson, S. J., Jr. and Akil, H. (2001). Nociceptin/orphanin FQ regulates neuroendocrine function of the limbic-hypothalamic-pituitary-adrenal axis, *Neuroscience*. **102**: 541-553.
* **42 citations in peer-reviewed journals**
19. Kabbaj, M., Devine, D. P., Savage, V., and Akil, H. (2000). Neurobiological correlates of individual differences in novelty-seeking behavior in the rat: differential expression of stress-related molecules, *Journal of Neuroscience*. **20**: 6983-6988.
* **128 citations in peer-reviewed journals**
20. Akil, H., Meng, F., Devine, D. P. and Watson, S. J. (1997). Molecular and neuroanatomical properties of the endogenous opioid system: implications for treatment of opiate addiction, In: Seminars in Neuroscience - Strategies for the Treatment of Opiate Abuse, L. L. Iversen and B. H. Herman (Eds.), vol. 9, pp. 70-83 Academic Press, New York.
* **24 citations in peer-reviewed journals**
21. Devine, D. P., Taylor, L., Reinscheid, R. K., Monsma, F. J., Jr., Civelli, O. and Akil, H. (1996). Rats rapidly develop tolerance to the locomotor-inhibiting effects of the novel neuropeptide orphanin FQ, *Neurochemical Research*. **21**: 1387-1396.
* **98 citations in peer-reviewed journals**
22. Devine, D. P., Reinscheid, R. K., Monsma, F. J., Jr., Civelli, O. and Akil, H. (1996). The novel neuropeptide orphanin FQ fails to produce conditioned place preference or aversion, *Brain Research*. **727**: 225-229.
* **110 citations in peer-reviewed journals (includes 1 abstract citation)**
23. Carlezon, W. A. Jr., Devine, D. P. and Wise, R. A. (1995). Habit-forming actions of nomifensine in nucleus accumbens, *Psychopharmacology*. **122**: 194-197.
* **97 citations in peer-reviewed journals**
24. Devine, D. P. and Wise, R. A. (1994). Self-administration of morphine, DAMGO, and DPDPE into the ventral tegmental area of rats, *Journal of Neuroscience*. **14**: 1978-1984.
* **161 citations in peer-reviewed journals (includes 14 abstract citations)**
25. Devine, D. P., Leone, P. and Wise, R. A. (1993). Mesolimbic dopamine neurotransmission is increased by administration of μ -opioid receptor antagonists, *European Journal of Pharmacology*. **243**: 55-64.
* **42 citations in peer-reviewed journals (includes 1 abstract citation)**
26. Devine, D. P., Leone, P., Pocock, D. and Wise, R. A. (1993). Differential involvement of ventral tegmental area *mu*, *delta* and *kappa* opioid receptors in modulation of basal mesolimbic dopamine release: *In vivo* microdialysis studies, *Journal of Pharmacology & Experimental Therapeutics*. **266**: 1236-1246.
* **227 citations in peer-reviewed journals (includes 6 abstract citations)**
27. Devine, D. P., Leone, P. and Wise, R. A. (1993). Striatal tissue preparation facilitates early sampling in microdialysis and reveals an index of neuronal damage, *Journal of Neurochemistry*. **61**: 1246-1254.
(A commentary on this paper was published in *Current Separations*, (1994). 12: 200.)
* **17 citations in peer-reviewed journals**
28. Devine, D. P., Leone, P. and Wise, R. A. (1993). Surgical preparation of striatal tissue facilitates early sampling in microdialysis and reveals an index of neuronal damage, *Current Separations*. **12**: 68.
29. Devine, D. P., Leone, P., Carlezon, W. A. Jr. and Wise, R. A. (1993). Ventral mesencephalic δ opioid receptors are involved in modulation of basal mesolimbic dopamine neurotransmission: An anatomical localization study, *Brain Research*. **622**: 348-352.
* **15 citations in peer-reviewed journals**
30. Devine, D. P. and Spanos, N. P. (1990). Effectiveness of maximally different cognitive strategies and expectancy in attenuation of reported pain, *Journal of Personality & Social Psychology*. **58**: 672-678.
* **19 citations in peer-reviewed journals**

Publications (cont'd...):

Peer-Reviewed Published Papers:

31. Devine, D. P. and Spanos, N. P. (1988). Distraction, imagery, and expectancy factors in cognitive analgesia, *Canadian Psychology*. **29**: 187.

*** AVERAGE 38.69 citations per paper according to the Institute for Scientific Information - Web of Knowledge as of May 21, 2010. This includes all 29 papers published between 1988 and 2009.**

Non Peer-Reviewed Published Papers:

1. Wolfman, S. and Devine, D. P. (in press). The Effects of Chronic Social Stress on a Rodent Model of Self-Injurious Behavior, *J. Undergraduate Research*.
2. Devine, D. P. (2007). Foreword: Effects of stress on behaviour and biology. *J. Undergraduate Research*, **8 (5)**.
3. Barbieri, E. V. and Devine, D. P. (2007). N/OFQ-mediated anxiety: Role of the bed nucleus of stria terminalis, *J. Undergraduate Research*, **8 (5)**.
4. Naccarato, A. M. and Devine, D. P. (2007). Rats exhibit behavioral despair after repeated social defeat stress, *J. Undergraduate Research*, **8 (5)**.
5. Wilkinson, J.A. and Devine, D. P. (2007). Self-injurious behavior: Investigating individual differences in vulnerability and sensory thresholds in an animal model, *J. Undergraduate Research*, **8 (5)**.
6. Hersh, C. M. and Devine, D. P. (2005). The effects of environmental challenges on nociceptin/orphanin FQ-induced anxiety, *Journal of Undergraduate Research*. **6 (7)**.
7. Bauer M. C. and Devine, D. P. (2004). The effects of J113397, an orphanin/nociceptin FQ receptor antagonist, on the limbic-hypothalamic-pituitary-adrenal axis, *Journal of Undergraduate Research*. **6 (2)**.
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Abstracts / Conference Proceedings:

1. Devine, D.P. (in press). The biochemical basis of self-injurious behavior: focus on dopaminergic and glutamatergic signaling, *Experimental Biology 2011*.
2. Marcinkiewicz, C.A. and Devine, D.P. (in press). Stress-modulated polyspecific cation transporters in the brain: Role in individual vulnerability for psychopathology, *American College of Neuropharmacology*, **49**.
3. Devine, D.P. (2010). The role of stress-responsiveness in self-injurious behaviors: Biochemical studies in an animal model, *First International Congress on Borderline Personality Disorder*, **1**: S-031.
4. Edge, C. Rice, K. G. and Devine, D.P. (2010). Perfectionism, emotion regulation, and physiological stress reactivity, *World Conference on Stress & Anxiety Research*, **31**: 63.
5. Marcinkiewicz, C.A. and Devine, D.P. (in press). Blockade of the organic cation transporter-3 (OCT3) attenuates depressive-like behavior in wistar-kyoto rats: Implications for treatment-resistant depression, *Society for Neuroscience Abstracts*.
6. Marcinkiewicz, C.A. and Devine, D.P. (2010). Social defeat stress differentially modulates hippocampal expression of the organic cation transporter-3 in rats exhibiting behavioral depression, *International Behavioral Neuroscience Society* **19**: 115.
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8. Van Matre, A.M., Wolfman, S., and Devine, D.P. (2010). Neurotensin plays a modulatory role in self-injurious behavior: biochemical analyses using an animal model, *Gatlinburg Conference on Research & Theory in Intellectual & Developmental Disabilities*, **43**: 29.
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Abstracts (cont'd...):

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12. Green, M.K., Devine, D.P., Vierck, C.J., and Yeziarski, R.P. (2009). Effects of duloxetine (Cymbalta) on escape and lick/guard behaviors in rats, *American Pain Society*, **28**: 195.
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Abstracts (cont'd...):

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Invited Talks:

1. The biochemical basis of self-injurious behavior: focus on dopaminergic and glutamatergic signaling. *Symposium on "Autism and Pervasive Developmental Disorders: Neuropathology, Pharmacotherapies, and New Directions"*, at the *Experimental Biology* conference. Washington DC (April 9, 2011).
2. The role of stress responsiveness in an animal model of self-injury. *Symposium on "Interaction of Disturbed Pain Processing and Self-Injurious Behavior"*, at the *First International Congress on Borderline Personality Disorder*. Berlin Germany (July 3, 2010). co-Chair of the symposium, w/ Dr. C. Schmahl.
3. Biochemical factors that confer individual differences in vulnerability for self-injurious behavior. *Symposium on "Behavioral and biological frontiers in the analyses of self-injurious behavior"*, at the *Gatlinburg Conference on Research & Theory in Intellectual & Developmental Disabilities*, Annapolis VA (March 19, 2010). co-Chair of the symposium, w/ Dr. F. Symons.

Invited Talks (cont'd):

4. The physiological basis of self-injurious behavior: Studies in an animal model, *Symposium on "The Role of Universal Cognitive and Neurobiological Factors in Deliberate Self-Harm"*, Association for Behavioral and Cognitive Therapies, New York, NY (November 21 2009).
5. Limbic Neuroplasticity: Insights into Stress-Induced Psychopathology, Opening address for *Eric Kandel Symposium, Nova Southeastern University*, Ft. Lauderdale, FL (February 2008).
6. Stress and anxiety responses: Regulation by the peptide neurotransmitter N/OFQ, *Department of Medicinal Chemistry, University of Mississippi*, Oxford, MS (April 2004).
7. Neurobiology of stress and anxiety responses: role of the neuropeptide N/OFQ, *Department of Neuroscience, Florida State University*, Tallahassee, FL (November 2003).
8. Interactions between N/OFQ and the limbic HPA axis: biochemical markers. *International Narcotics Research Conference*, Perpignan, France (July 2003).
9. Nociceptin/orphanin FQ (N/OFQ) is anxiogenic in tests of rat neophobia, *International Narcotics Research Conference*, Monterey, CA (July 2002).
10. The neurobiology of stress and drug abuse: Involvement of the endogenous opioid and opioid-orphan systems, *University of Florida, Department of Psychology*, Gainesville, FL (January 1998).
11. Behavioural and physiological properties modulated by nociceptin/orphanin FQ, *International Narcotics Research Conference*, Hong Kong, China (August 1997).
12. Neurobiology of opioid and opioid-like orphan systems: Implications for drug abuse and stress responses, *Maryland Psychiatric Research Center, University of Maryland, School of Medicine, Department of Psychiatry*, Baltimore MD (March 1997).
13. Neurobiology of opioid and opioid-like orphan systems: Implications for drug abuse and stress responses, *William Paterson University, Department of Biology*, Pattersonville, NJ (February 1997).
14. The involvement of opioid and opioid-like orphan systems in the neurobiology of stress and drug abuse, *University of California at Irvine, School of Medicine, Department of Pharmacology*, Irvine CA (November 1996).
15. The involvement of opioid and opioid-like orphan systems in the neurobiology of stress and drug abuse, *Albert Einstein College of Medicine, Department of Psychiatry*, New York, NY (September 1996).
16. A behavioral characterization of the effects of intracerebroventricular administration of the novel neuropeptide orphanin FQ, *International Narcotics Research Conference*, Long Beach, CA (July 1996).
17. Involvement of ventral tegmental μ , δ , and κ opioid receptors in reward and in modulation of mesolimbic dopamine: Intracranial self-administration and microdialysis studies, *International Narcotics Research Conference, Keystone Resort*, Colorado, CO (July 1992).
18. Behaviour management of the survivor of traumatic brain injury, "New Beginnings Conference", *Head Injury Association of Canada, Ottawa, Ontario Canada* (1987).
19. Self-injury as communicative behaviour: Implications for assessment and treatment, *Southeastern Ontario Community Support Programs, Ottawa, Ontario, Canada* (1987).

Talks at the University of Florida:

1. Self-Injurious Behaviour: an Animal Model of an Autism Endophenotype, *Howard Hughes Medical Institute (HHMI) "Science for Life" program*, (November 17, 2009).
2. Neurobiological Mechanisms that Underlie the Self-Injurious Endophenotype, *University of Florida Neuroscience Club* (October 22, 2009)
3. The Biochemical Basis of Self-Injury, *Seminar in Psychological Science* (October 1, 2009).
4. The Neurobiological Basis of Vulnerability for Self-Injurious Behaviour, *McKnight Brain Institute* (April 15, 2009)
5. Individual Differences in Vulnerability for Self-Injurious Behaviour, *Center for NeuroPsychological Studies, Veteran's Administration Hospital* (April 3, 2009)
6. A Rodent Model of Self-Injurious Behaviour, *University of Florida Neuroscience Club* (March 16, 2009)
7. Self-Injurious Behaviour: Findings from an Animal Model, *Howard Hughes Medical Institute (HHMI) "Science for Life" program, Turlington* (October 7, 2008).
8. Stress-Induced Limbic Neuroplasticity, *Seminar in Psychological Science* (February 29, 2008).

Talks at the University of Florida (cont'd):

9. Self-Injurious Behaviour: Findings from an Animal Model, *Howard Hughes Medical Institute (HHMI) "Science for Life" program, Cancer Genetics Institute* (March 6, 2007).
10. Rodent Models of Psychopathology: Stress and Self-injury, *UF College of Veterinary Medicine and Animal Care Services* (March 16, 2004).
11. Chronic stress-induced neuroadaptations in health and disease, *Comprehensive Center for Pain Research* (December 7, 2004).
12. Chronic Stress-Induced Neuroadaptations Cause Age-Associated Memory Impairment, *Evelyn F. McKnight Brain Research Foundation, Board of Trustees Meeting* (February 2004).
13. Self-injurious behaviour: findings from an animal model, *Fifth Annual Autism Conference* (January 2004).
14. Stress responses and anxiety: studies on N/OFQ, individual differences, and neuroadaptations, *NIMH Center for the Study of Emotion and Attention* (March 2003).
15. Stress responses and anxiety: studies on N/OFQ, individual differences, and neuroadaptations, *McKnight Brain Institute* (October 2002).

Professional Service:

Grant Reviews

Wellcome Trust (United Kingdom)

WT2 grant reviewer
August 2010

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Graduate Research Fellowship Panel
Arlington, VA., March 5-7, 2010

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ZMH1 ERB-L-02
Washington D.C., February 22-23, 2010

Indo-US Science and Technology Forum – Smithsonian Institute

Birth Defects and Disabilities in the Developing World grant reviewer
September 2009

National Institutes of Health – Recovery Act Limited Competition

RC1 Challenge grants, stage 1 grant reviewer
June 2009

Wellcome Trust (United Kingdom)

WT2 grant reviewer
March 2009

Autism Speaks Foundation

Member, Scientific Review Panel
Philadelphia, PA, February 25-27, 2008

National Institutes of Health – National Cancer Institute

Member, P01 Review Panel – Stress and Cancer
NCI-E GRB-F (Q1)
Bethesda, MD, June 10-11, 2004

National Institutes of Health – National Institute on Drug Abuse

Member, Special Emphasis Panel
NIDA ZDA1RXL-E (14) "Chronic Stress and Its Relation to Drug Abuse"
Washington, DC, April 22-23, 2003

Cornerstone Program Enhancement Grant (PEG) competition

Florida State University
January 2004

Grant Reviews (cont'd...):

South Carolina Exp. Program to Stimulate Competitive Research (EPSCoR)
March, 2002

National Institutes of Health – Center for Scientific Review
2 (BDCN-2) “Brain Disorders and Clinical Neuroscience”
ZRG1 BBBP-2
2001

National Science Foundation
Integrative Biology & Neuroscience, Behavioral Neuroscience Division
2000-2001

National Science Foundation
Integrative Biology & Neuroscience, Sensory Systems Division
2000 and 2001

Department of Veteran’s Affairs
VA Medical Center, Gainesville, FL
1999

Allegheny University of the Health Sciences (intramural grant program)
1996

Editorial Service Guest Editor, Special Issue of *Journal of Intellectual Disabilities Research*
Issue on “Self-Injurious Behavior”
anticipated publication in late 2010

Editorial Advisory Board, *The Open Neuropsychopharmacology Journal*
<http://www.bentham.org/open/toneuropj/index.htm>
Bentham Science Publishers, 2008 – present

Editorial Advisory Board, *The Open Neuroendocrinology Journal*
<http://www.bentham.org/open/toneuroej/index.htm>
Bentham Science Publishers, 2008 – present

Guest Editor, *Journal of Undergraduate Research*, 8 (5): 2007.
<http://www.clas.ufl.edu/jur/200705/>

Journal Reviews

Behavioural Brain Research
Behavioural Processes
Biological Psychiatry
Biochemical Pharmacology
Brain Research
British Journal of Pharmacology
Current Drug Targets
Journal of Intellectual Disabilities Research
European Journal of Neuroscience
International Journal of Neuropsychopharmacology
International Journal of Psychology
Journal of Neurochemistry
Journal of Neurodevelopmental Disorders
Journal of Neuroendocrinology
Journal of Neuroscience
Journal of Neuropsychopharmacology
Journal of Pharmacology and Experimental Therapeutics
Journal of Psychopharmacology
Neurobiology of Learning and Memory
Neuropharmacology
Neuropsychopharmacology

Journal Reviews (cont'd...):

Neuroscience
Neuroscience Letters
Peptides
Pharmacology Biochemistry and Behavior
Pharmacological Research
Physiology and Behavior
Psychopharmacology
Psychoneuroendocrinology
Stress, International Journal on the Biology of Stress

Invited Book Reviews

Cengage/Wadsworth Publishing Company
Behavioral Neuroscience: Dynamics of Brain Body Function (book proposal)

Sanders Publishing Company
Biology of Psychology (book proposal)

Allyn & Bacon Publishing Company
Physiology of Behavior 9th Edition, Neil R. Carlson

Allyn & Bacon Publishing Company
CD accompanying *Physiology of Behavior* 9th Edition

Sage Publishing Company
Brain and Behavior 2nd Edition, Bob Garrett

Wadsworth Publishing Company
Biological Psychology 7th Edition, James W. Kalat

Worth Publishing Company
An Introduction to Brain and Behavior 1st Edition, Bryan Kolb & Ian Q. Whishaw

Worth Publishing Company
An Introduction to Brain and Behavior 2nd Edition, Bryan Kolb & Ian Q. Whishaw

Scientific Outreach

Junior Science Engineering, and Humanities Symposium (JSEHS) 2007 - 2010
laboratory host and judge for this national competition of high school students

Society for Neuroscience Annual Meeting, New Orleans, LA 2003
Short Course Guide for high school students

Society for Neuroscience Annual Meeting, Orlando FL, 2002
Published by the Society for Neuroscience in the Annual Press Release Book
Interviewed on National Public Radio
Interviewed on WUFL
Interview published in "Child Protection Report", Baltimore MD.
Interview published in "The Link" newsletter, University of Florida

**External Promotion
Committees**

External referee for promotion of a Faculty Scientist in the Department of Pharmacology
at the University of California at Irvine (UCI) (2001)

External referee for promotion of Associate Professor to Full Professor at the University
of Mississippi (2004)

External referee for the promotion of an Adjunct Associate Professor at the University of
California at Los Angeles (UCLA) (2010)

Service at U. of Florida

Member of Institutional Animal Care and Use Committee (2000-2002)
Alternate Member of Institutional Animal Care and Use Committee (2002-2005)
Search committee member – Behavioral Neuroscience faculty position, 2002
Search committee member – Center for Smell and Taste faculty position, 2003
Search committee member – Learning and Memory/Aging faculty position, 2004
Search committee member – Behavioral Genetics faculty position, 2004
Judge for “Doris Thames Staff Excellence Award” (2003)
Judge for Undergraduate Scholars Program writing competition (2003-2004)
Interviewed for internet course on Careers in Psychology (2003)
Interviewed for internet course in Counseling Psychology (2004)
Merit committee member (2004-2005)
T.A./Fellowship/Admissions committee rep. for Beh Neurosci program (2006-ongoing)
Website design/support for Behavioral Neuroscience Program (1999-ongoing)
Lab host and Judge for Junior Science, Engineering and Humanities Symp. (2007-2010)
Director, Behavioral and Cognitive Neuroscience Program, (2009-ongoing)
Member, Sabbatical committee (fall 2010-ongoing)

Technical Skills

Small Animal Surgery:

stereotaxic intracranial and intravenous (jugular) cannulation
electrolytic / chemical lesions
vasectomy, adrenalectomy, etc.
perfusion, brain removal and dissection, sectioning and staining

Behavioral Assays:

intravenous / intracranial models of drug self-administration
intracranial electrical self-stimulation
conditioned place preference
locomotor activity / sensitization / tolerance
motor skill / motor impairment battery ("Rat Olympics")
drug dependence / withdrawal
models of stress / non-habituating stress
models of anxiety (elevated plus maze, open field, etc.)
models of learning / memory (Morris water maze, T-maze, etc.)

Neurochemical Assays:

intracranial microdialysis
high-pressure liquid chromatography / U-V and electrochemical detection

Molecular Assays:

preparation of competent cells / DNA transformation / plasmid preps
cell culture / cell transfection / cell passage
mRNA transcription Rxn / labeling of riboprobes
DNA / RNA isolation / purification / quantification
polyacrylamide / agarose gel electrophoresis
radioactive / digoxigenin mRNA *in situ* hybridization
immunohistochemistry (glyoxylic acid, TH, etc.)
radioimmunoassay
ELISA
Western blots (incl. phospho-specific)
PCR / RT-PCR / RT-PCR arrays
autoradiography
densitometry and image analysis

Additional Training

Protein Chemistry and Molecular Cloning
Molecular Biology Laboratory Techniques Course (GMS6004)
Fall 2010

Society for Neuroscience Short Course: DNA Microarrays: The New Frontier in
Gene Discovery and Gene Expression Analysis, *Society for Neuroscience*, 2000

NIH: National Institute of Child Health and Human Development
Workshop on Self-Injurious Behavior, 1999

Additional Training (cont'd)

Society for Neuroscience Short Course: Neurobiology of Developmental Disorders, *Society for Neuroscience*, 1997

Society for Neuroscience Short Course: Basics of Molecular Biology for Neurobiologists, *Society for Neuroscience*, 1992

Society for Neuroscience Short Course: Microdialysis and Voltammetry
Society for Neuroscience, 1991

National Institute on Drug Abuse: Technical Review Meeting on Neurobiological Models for Evaluating Mechanisms Underlying Cocaine Addiction and Potential Pharmacotherapies for Treating Cocaine Abuse, *Society for Neuroscience*, 1991

Current Professional Associations

Society for Neuroscience (SfN)
American Association for the Advancement of Science (AAAS)
International Narcotics Research Association
Cure Autism Now Foundation, Orlando Chapter (CAN)
International Society for Autism Research (INSAR)
Interactive Autism Network (IAN)
Evelyn F. and William L. McKnight Brain Institute
University of Florida Comprehensive Center for Pain Research
University of Florida Genetics Institute