

Curriculum Vitae

Clare J. Wilhelm, Ph.D.

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Education:

1999-2000 B.S. Biochemistry/Biophysics, Oregon State University, Corvallis, OR
2000-2006 Ph.D. Oregon Health & Science University (OHSU) Portland, OR,
Department of Physiology and Pharmacology
2006 Teacher Training for the Princeton Review
2006-2009 Postdoctoral Fellow, OHSU, Department of Behavioral Neuroscience

Professional Research Experience:

1998-2000	Undergrad. Research Asst.	Chris Matthews, Ph.D. Oregon State Univ.
1999 (Summer)	Research Asst.	John Scott, Ph.D. OHSU, Vollum Institute
2000 (Fall)	Graduate Research Asst.	Aaron Janowsky, Ph.D. OHSU/VAMC
2000 (Winter)	Graduate Research Asst.	David Grandy, Ph.D. OHSU
2001 (Spring)	Graduate Research Asst.	Susan Amara, Ph.D. OHSU, Vollum Institute
2001-2006	Graduate Research Asst.	Aaron Janowsky, Ph.D. OHSU/VAMC
2006-2009	Postdoctoral Fellow	Suzanne Mitchell, Ph.D. OHSU Behavioral Neuroscience Department
2007	NIAAA trainee workshop (Indianapolis, Indiana)	
2009	Research Associate	Jennifer Loftis, Ph.D. OHSU, Department of Psychiatry
2010-Present	Assistant Professor	OHSU, Department of Psychiatry

Professional Teaching Experience:

2006 Certified Princeton Review MCAT Chemistry Teacher

2006-Present	General Chemistry on the MCAT, Instructor for the Princeton Review
2007	<i>Guest</i> Lecturer, Neurobiology of Disease; OHSU
2007	<i>Guest</i> Lecturer, Psychology Methods, Lewis & Clark College
2008 (Fall/Winter)	<i>Adjunct</i> faculty, Lewis and Clark College, Department of Psychology Course: Brain and Behavior (Psy 280); Class size = 31 students

Professional Service Experience:

2006-Present	<i>Ad Hoc</i> Reviewer Experimental and Clinical Psychopharmacology
2007-Present	<i>Ad Hoc</i> Reviewer Alcoholism: Clinical and Experimental Research
2007 (Summer)	College student mentor (Lindsay Hilken, Lewis and Clark)
2007	Lifetime Learning at OHSU committee member
2007-2008	Co-Organizer NIAAA/NIDA training grant postdoc journal club
2008-Present	<i>Ad Hoc</i> Reviewer Pharmacology, Biochemistry and Behavior
2008-Present	<i>Ad Hoc</i> Reviewer Psychopharmacology

Honors and Awards:

1996-2000	Oregon State University Presidential Scholar
2000	<i>magna cum laude</i> graduate of Oregon State University
2000-2001	Predocctoral Fellow, Institutional Neuroscience Training Grant (1T32NSO7466-02)
2004-2006	Predocctoral Fellow, Kirchstein National Research Service Award for individual predocctoral fellows (1F31DA017541) <i>Transporter Maintenance of Dopamine Homeostasis</i> (\$46,000)
2005	American Society of Pharmacology and Experimental Therapeutics Graduate Student Travel Award winner (\$300)
2005	Tartar Trust Fellowship recipient (\$2,000)
2006-2008	Postdoctoral Fellow, Institutional Alcohol Research Training Grant (5T32AA007468)
2008-Present	Postdoctoral Fellow, Kirchstein National Research Service Award for individual postdoctoral fellows (1F32AA017035) <i>Impulsivity and effects of alcohol in high and low alcohol drinking rats</i> (\$65,700)
2009	OHSU School of Medicine Alumni Association Postdoc paper of the year award (\$750)

2010 American Psychological Association Travel Award winner; sponsored by NIDA/NIAAA (\$750)

Clubs and Organizations:

2003 Member Society for Neuroscience

2004 Member American Society of Pharmacology and Experimental Therapeutics

2007-Present Member Research Society on Alcoholism

Presentations:

Drug induced regulation of the human dopamine transporter Laboratory for Molecular Pharmacology, Portland VA Medical Center, June 2001

Structure, function, and regulation of the norepinephrine transporter Dept. of Physiology and Pharmacology, OHSU, October 2002

Transporter maintenance of dopamine homeostasis Student Seminar Series, Dept. of Physiology and Pharmacology, OHSU, March 2003

Methamphetamine-induced disruption of dopamine homeostasis: the ins and outs of transport. Student Seminar Series, Dept of Physiology and Pharmacology, OHSU, January 2006.

Methamphetamine-induced disruption of dopamine homeostasis: the ins and outs of transport. Dept of Physiology and Pharmacology, OHSU, February 2006.

Mechanisms of NIH Funding Available to Postdoctoral Fellows. Dept of Behavioral Neuroscience, Behavioral Neuroscience Retreat, November, 2006

Discounting in high and low alcohol drinking rats. Dept of Behavioral Neuroscience, NIDA/NIAAA training grant retreat, December, 2006

Alcohol, Genes and Discounting of Rewards. Dept of Behavioral Neuroscience, OHSU, March 2007

Examining impulsivity as an endophenotype using a behavioral approach: a DRD2 TaqI A and DRD4 48-bp VNTR association study. Dept of Behavioral Neuroscience, NIAAA NIDA Training Grant Journal Club, OHSU, June 2007.

Ethanol-associated cues produce general pavlovian-instrumental transfer. Dept of Behavioral Neuroscience, NIAAA NIDA Training Grant Journal Club, OHSU, November 2007.

Alcohol, selected lines, and intolerance of delay. Dept of Pharmacology, Toxicology and Neuroscience, Louisiana State University Health Sciences Center, October 2008

Alcohol, selected lines, and intolerance of delay. Dept of Psychology, Lewis and Clark College, December 2008

Alcohol, selected rat lines, and intolerance of delay. Dept of Psychiatry, University of Arkansas for Medical Sciences, February 2009

Delay aversion in rats predisposed to consume alcohol. Oregon Health & Science University, Student Research Forum Featured Speaker, May 2009

Hate to Wait: Impulsivity and Predisposition to Alcohol Abuse. University of Texas Medical Branch, Center for Addiction Research, July 2009

Publications:

Research Papers:

Wilhelm, C.J., Johnson R.A., Lysko P.G., Eshleman A.J., & Janowsky A (2004). Effects of methamphetamine and lobeline on vesicular monoamine and dopamine transporter-mediated dopamine release in a co-transfected model system. *J Pharm. Exp Ther.* Sept; 310(3): 1142-51.

Wilhelm, C.J., Johnson R.A., Eshleman, A.J., & Janowsky A (2006). Hydrogen ion concentration differentiates effects of methamphetamine and dopamine on transporter-mediated efflux. *J Neurochem* 96(4): 1149-1159.

Wilhelm C.J., Reeves J.M., Phillips T.J. & Mitchell SH. (2007) Mouse lines selected for alcohol consumption differ on some measures of impulsivity. *Alcoholism: Clinical and Experimental Research* 31(11): 1839-1845.

Wilhelm C.J., Johnson R.A., Eshelman A.J. & Janowsky A.(2008) Lobeline effects on tonic and methamphetamine-induced dopamine release. *Journal of Biochemical Pharmacology* 75(6): 1411-1415.

Helms, C.M., Gubner, N.R., **Wilhelm, C.J.**, Mitchell, S.H., & Grandy, D.K. (2008) D4 receptor deficiency in mice has limited effects on impulsivity and novelty seeking. *Pharmacology, Biochemistry and Behavior* 90(3): 387-393.

Wilhelm C.J., & Mitchell S.H. (2008) Rats bred for high alcohol drinking are more sensitive to delayed and probabilistic outcomes. *Genes, Brain and Behavior* 7(7): 705-713.

Wilhelm C.J., & Mitchell S.H. (2009) Differences in delay discounting in six inbred rat strains. *Genes, Brain and Behavior* 8(4): 426-434.

Wilhelm C.J., & Mitchell S.H. (2010) Response Bias is Unaffected by Delay Length in a Delay Discounting Paradigm. *Behavioural Processes* 84(1): 445-449.

Gubner N.R., **Wilhelm C.J.**, Phillips T.M., & Mitchell S.H. (2010) Strain differences in behavioral inhibition in a Go/No-go task demonstrated using 15 inbred mouse strains. *Alcoholism: Clinical and Experimental Research* 34(8): 1353-1362.

Wilhelm C.J., Hilken, L., & Mitchell S.H. Comparison of delay discounting procedures in rats. *Under Revision*

Mitchell S.H., **Wilhelm C.J.**, Elstad K.A., Ambert K.H., & Beckley E.H. Different neural substrates mediate decisions involving delayed, probabilistic, and effort-contingent rewards. *Under Revision*

Eshleman A.J., Carmolli M., Johnson R, **Wilhelm C.J.**, Keith D., Wolfrum K. & Janowsky A. Pharmacology of [3H]Neurotransmitter uptake and binding sites on recombinant human vesicular monoamine transporter2. *Under Revision*

Eshleman A.J., Johnson R., Wolfrum K., **Wilhelm C.J.**, Carmolli M., VanSant J., Meyer P., Phillips T.J., & Janowsky A. Biogenic amine transporters: Effects of drugs on substrate release vary with methodology. *Under Revision*

Abstracts and posters:

Wilhelm, C.J., Johnson R.A., Lysko P.G., Eshleman A.J., & Janowsky A. Blockade of hVMAT2 in HEK-hDAT-hVMAT2 cells results in altered [³H]DA uptake kinetics. 2003 Society for Neuroscience Abstract, New Orleans, LA

Wilhelm, C.J., Johnson R.A., Eshleman, A.J., & Janowsky A. Methamphetamine: one curious transporter substrate. 2005 Experimental Biology Abstract, San Diego, CA

Gubner, N.R., **Wilhelm, C.J.**, Phillips, T.J., & Mitchell, S.H. Genetic difference in impulsivity as measured by the Go/No-go task in 15 inbred mouse strains. 2007 Research Society on Alcoholism Abstract #725, Chicago, IL

Wilhelm, C.J., & Mitchell, S.H. Rats bred for high ethanol consumption are more impulsive than rats bred for low ethanol consumption. 2007 Research Society on Alcoholism Abstract #726, Chicago, IL

Wilhelm, C.J., & Mitchell, S.H. Rats bred for high ethanol consumption are more impulsive than rats bred for low ethanol consumption. 2007 NIAAA Trainee workshop, Indianapolis, IN

Gubner, N.R., **Wilhelm, C.J.**, Phillips, T.J., & Mitchell, S.H. Genetic differences in delay discounting (impulsivity) using an adjusting amount procedure in 15 inbred mouse strains. 2008 Research Society on Alcoholism Abstract #020, Washington, D.C.

Wilhelm, C.J., & Mitchell, S.H. Delay discounting and alcohol consumption in six inbred rat strains. 2008 Research Society on Alcoholism Abstract #022, Washington, D.C.

Wilhelm, C.J., & Mitchell, S.H. Heightened discounting of delayed or probabilistic rewards in animals predisposed to high alcohol consumption. 2008 Research Society on Alcoholism Abstract #023, Washington, D.C.

Wilhelm, C.J., & Mitchell, S.H. Bias in delay discounting. 2009 Society for the Quantitative Analyses of Behavior Abstract, Phoenix, AZ.

Moschak, T.M., **Wilhelm, C.J.**, Beaumont R., & Mitchell, S.H. The effect of ethanol on Go/No-go task performance in rats. 2010 Research Society on Alcoholism Abstract, San Antonio, TX.

Wilhelm, C.J., Loftis, J.M. Effects of methamphetamine on neuroinflammation and cognition. 2010 American Psychological Association, Early Career Investigators Poster Session #50, San Diego, CA.

Wilhelm, C.J., Huckans, M.S., & Loftis, J.M. Role of neuroinflammation in methamphetamine induced deficits in learning and memory. 2010 Society for Neuroscience Meeting Abstract #509, San Diego, CA.