Curriculum Vitae
Helen J. Kaczmarek Sable, Ph.D.
Associate Professor of Psychology
Psychology Undergraduate Program Director
University of Memphis

Contact Information

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Education

Ph.D. in Psychology, 2001
University of Wisconsin - Milwaukee
Major: Psychology (Behavioral Neuroscience)
Title of Doctoral Dissertation: "The Effects of Naltrexone Implants on the Conditioned Place Preference of Cocaethylene and the Co-administration of Ethanol and Cocaine"
Intradepartmental minors: Learning, Cognitive Psychology
Interdepartmental minor: Quantitative Methods

M.S. in Psychology, 1998
Kansas State University
Major: Psychology (Behavioral Neuroscience)
Title of Masters Thesis: "Microinjections of Dopaminergic Agents Into the Nucleus Accumbens Affect Ethanol Consumption But Not Palatability"

B.A. with Honors and Distinction (*Summa Cum Laude)*, 1995
University of Wisconsin - Milwaukee
Major: Psychology
Minor: Anthropology

Research Experience

Associate Professor, 2014 - present
Assistant Professor; 2008 -2014
University of Memphis, Department of Psychology
Research Interests

- Investigating how developmental exposure to neurotoxicants (e.g., PCBs, Bisphenol A, DES) in rodent models may produce executive function deficits, increased risk of psychostimulant abuse, and increased anxiety- and depression-like behaviors.
- Examining the role of nutrition/diet and exercise in animal models during critical periods of neurodevelopment (e.g., premature birth, aging) on cognition.

Visiting Research Assistant Professor; 2005 -2008
University of Illinois at Urbana-Champaign, Department of Comparative Biosciences
Research Interests

- Examining inhibitory control and attentional impairments in rodents following exposure to neurotoxicants (eg., PCBs, PBDEs) and determining if early exposure to neurotoxicants can increase risk of psychostimulant abuse.

Post-doctoral Research Associate; 2004 -2005
University of Illinois at Urbana-Champaign, Department of Comparative Biosciences
Preceptor: Susan L. Schantz, Ph.D.
Research Interest

- Examining the effects of exposure to PCBs and MeHg on cognitive, motor and sensory function in an animal model (Long Evans rats).

Post-doctoral Fellow; 2002 -2004
Indiana University School of Medicine, Institute for Psychiatric Research
Preceptor: William J. McBride, Ph.D.
Research Interests

- Used the 2-deoxyglucose procedure to examine glucose utilization in discrete brain areas of alcohol-preferring (P) rats after chronic ethanol drinking and relapse, operant ethanol self-administration, and adolescent ethanol exposure.
- Assessed the ability of naltrexone to delay the acquisition of high alcohol drinking in an "at-risk" population of adolescent P rats.

Graduate research assistant: 1999 -2001
University of Wisconsin - Milwaukee, Neurochemistry and Behavior Laboratory
Advisor: Rhea E. Steinpreis, Ph.D.
Research Interests

- Examined the effectiveness of using naltrexone implants as a pharmacotherapy for combined cocaine-alcohol abuse.
- Investigated how route of administration of dopaminergic agents and access schedule affect alcohol intake in rodents.
- Measured differences in whole brain monoamines between High-alcohol (HiCo) and Low -alcohol consuming (LoCo) Mice.

Graduate Research Assistant: 1995 -1999
Kansas State University, Psychobiology Laboratory
Advisor: Stephen W. Kiefer, Ph.D.
Research Interests

- Investigated how microinjection of dopaminergic agents into the nucleus accumbens of outbred rats influenced alcohol "wanting" (instrumental responding) but not alcohol "liking" (incentive salience).
- Examined the ability of naltrexone to reduce the palatability and consumption of alcohol in outbred rats.
- Profiled the palatability of increasing alcohol and sucrose concentrations of outbred mice.

Undergraduate Research Assistant: 1994 -1995

University of Wisconsin - Milwaukee, Neurochemistry and Behavior Laboratory
Research Projects

- Examined the source of social withdrawal in rats receiving amphetamine and cocaine.
- Assisted in the development of a preclinical screening procedure to assess atypicality of antipsychotic drugs

Grant Activity

Funded/Awarded
NIH/NIEHS (R00ES015428): *Assessment of Psychostimulant Addiction Risk Following Developmental PCB Exposure*. ($722,099 total costs, 3/1/09 - 11/30/12). Role on Project: Primary Investigator.

University of Memphis Faculty Research Grant in Social Sciences, Business, and Law: *The Effects of Developmental Exposure to PCBs on Cocaine Self-Administration.* ($6500; 7/1/09-6/30/10). Role on Project: Primary Investigator.

NIH/NIEHS (K99ES15428): *Assessment of Psychostimulant Addiction Risk Following Developmental PCB Exposure*. ($179,806 total costs; 12/01/06 - 10/30/08). Role on Project: Primary Investigator.

National Institutes of Health Loan Repayment Program for Clinical Researchers (CR-LRP). (11/08/02 - 07/06/05).

Sigma Xi Grants-In-Aid of Research: *The Effects of Naltrexone Implants on Cocaethylene Conditioned Place Preference.* ($600; 01/01/00). Role on Project: Primary Investigator.

Not Funded
NIH/NIEHS (R01ES021869A1): *Cocaine self-administration after perinatal PCB exposure: DAT and VMAT mechanisms.* ($1,806,762 total costs; 7/01/13 - 6/30/18). Role on Project: Co-Primary Investigator.

NIH/NIEHS (R01ES021869): *PCB and BPA exposure alters DAT modulation of psychostimulant self-administration.* ($1,673,330 total costs; 7/01/12 - 6/30/17). Role on Project: Primary Investigator.

NIH/NIEHS (R01ES020498): *PCBs and BPA alter psychostimulant sensitivity: role of DAT and RyR Mechanisms.* ($2,085,150 total costs; 7/01/11 - 6/30/16). Role on Project: Primary Investigator.

NIH/NIEHS (R00 ES015428 Supplement): *Assessment of psychostimulant addiction risk following developmental PCB exposure*. ($250,664 total costs; 6/1/09 - 5/31/11). Role on Project: Primary Investigator.

Manuscripts

Published/Accepted

*Meyer, A.E., Miller, M.M., Nelms, J.L., and Sable, H.J.K. (2015). A comparison of presynaptic and postsynaptic dopaminergic agonists on inhibitory control performance in rats perinatally exposed to PCBs. *Neurotoxicology and Teratology*, 50, 11-22. *This paper was written by Abby Meyer, a graduate student at the University of Memphis who was mentored by Dr. Sable.

*Choudhri, A. F., *Sable, H. J., Chizhikov, V., Buddington, K. K., and Buddington, R. K. (2014). Parenteral nutrition compromises neurodevelopment of preterm pigs. *Journal of Nutrition,* 144, 1920-1927. * Both authors contributed equally

*Fielding, J.R., Rogers, T.D., Meyer, A.E., Miller, M.M. Nelms, J. L., Mittleman, G., Blaha, C.D. , and Sable, H.J.K. (2013). Stimulation-evoked dopamine release in the nucleus accumbens following cocaine administration in rats perinatally exposed to polychlorinated biphenyls. *Toxicological Sciences,* 136, 144-153. *This paper was written by Jenna Fielding, an undergraduate Honors student at the University of Memphis who was mentored by Dr. Sable.

*Poon, E., Monaikul, S., Kostyniak, P.J., Chi, L., Schantz, S.L. and Sable, H.J.K. (2013). Developmental Exposure to Polychlorinated Biphenyls Reduces Amphetamine Behavioral Sensitization in Rats. *Neurotoxicology and Teratology*, 38, 6-12. *This paper was written by Emily Poon, a graduate student at the University of Illinois who was mentored by Dr. Sable.

Bell, R.L, Sable, H.J.K., Colombo, G., Hyytia, P., Rodd, Z.A., Lumeng, L. (2012). Animal models for medications development targeting alcohol abuse using selectively bred rat lines: neurobiological and pharmacological validity. *Pharmacology, Biochemistry and Behavior,* 103, 119-155.

Sable, H. J. K., Monaikul, S., Poon, E., Eubig, P. A., and Schantz, S. L. (2011). Discriminative stimulus effects of cocaine and amphetamine in rats following developmental exposure to polychlorinated biphenyls (PCBs). *Neurotoxicology and Teratology*, 33, 255-262.

Hill, K.G., Sable, H.J.K., Ferraro III, F.M., & Kiefer, S.W. (2010). Chronic naltrexone treatment and ethanol responsivity in outbred rats. *Alcoholism: Clinical and Experimental Research,* 29, 287-294, 34, 272-279.

Sable, H.J.K., Eubig P.A., Powers, B.E., Wang, V.C., and Schantz, S.L. (2009). Developmental exposure to PCBs, MeHg, or both: effects on DRL performance following amphetamine drug challenge. *Neurotoxicology and Teratology*, 31, 149-158.

Powers, B.E., Poon, E., Sable, H.J.K., and Schantz, S.L. (2009). Developmental exposure to PCBs, MeHg, or both: long-term effects on auditory function. *Environmental Health Perspectives,* 117, 1101-1107.

Wang, V.C., Sable, H.J.K., Ju, Y. H., Allred, C.D., Helferich, W.G., Korol, D.L., and Schantz, S.L. (2008). Effects of chronic estradiol treatment on delayed spatial alternation and differential reinforcement of low rates of responding. *Behavioral Neuroscience,* 122, 794-804.

Sable, H.J.K., Powers, B.E., Wang, V.C., Widholm, J.J., and Schantz, S.L. (2006). Alterations in DRH and DRL performance in rats developmentally exposed to an environmental PCB mixture. *Neurotoxicology and Teratology,* 28, 548-556.

Sable, H.J.K., Bell, R.L., Rodd, Z.A., & McBride, W.J. (2006). Effects of naltrexone on the acquisition of alcohol intake in male and female periadolescent and adult alcohol-preferring (P) rats. *International Journal of Adolescent Medicine and Health,* 18, 139-149.

Bell, R.L., Rodd, Z.A., Sable, H.J.K., Schultz, J.A., Hsu, C.C., Lumeng, L., Murphy, J.M., & McBride, W.J. (2006). Daily patterns of ethanol drinking in periadolescent and adult alcohol-preferring (P) rats. *Pharmacology, Biochemistry & Behavior,* 83, 35-46.

Kostyniak, P.J., Hansen, L.G., Widholm, J.J., Fitzpatrick, R.F., Olson, J.R., Helferich, J.L., Kim, K.H., Sable, H.J.K., Seegal, R.F., Pessah, I.N., & Schantz, S.L. (2005). Formulation and characterization of an experimental PCB mixture designed to mimic human exposure from contaminated fish. *Toxicological Sciences,* 88, 400-411.

Sable, H.J.K., Rodd, Z.A., Bell, R.L., Schultz, J.A., Lumeng, L., & McBride, W.J. (2005). Effects of ethanol drinking on central nervous system functional activity of alcohol-preferring rats. *Alcohol,* 35, 129-135.

Sullivan, E.V., Sable, H.J.K., Strother, W.N., Friedman, D.P., Davenport, A., Tillman-Smith, H., Kraft, R.A., Wyatt, C., Buchheimer, N.C., Daunais, J.B., Adalsteinsson, E., Pfefferbaum, A., & Grant, K.A. (2005). Neuroimaging of rodent and primate models of alcoholism: initial reports from the Integrative Neuroscience Initiative on Alcoholism. *Alcoholism: Clinical and Experimental Research,* 29, 287-294.

Sable, H.J.K., White, S.L., & Steinpreis, R.E. (2004). Effects of chronic naltrexone treatment in rats on place preference and locomotor activation after acute administration of cocaethylene or ethanol plus cocaine. *Alcohol,* 33, 51-61.

Rodd, Z.A., Bell, R.L., Sable, H.J., Murphy, J.M., & McBride, W.J. (2004). Recent advances in animal models of alcohol craving and relapse. *Pharmacology, Biochemistry & Behavior,* 79, 439-450.

Ferraro III, F.M., Hill, K.G., Kaczmarek, H.J., Coonfield, D.L., & Kiefer, S.W. (2002). Naltrexone modifies the palatability of basic tastes and alcohol in outbred male rats. *Alcohol,* 27, 107-114.

Coonfield, D.L., Hill, K.G., Kaczmarek, H.J., Ferraro III, F.M., & Kiefer, S.W. (2002). Low doses of naltrexone reduce alcohol palatability and consumption in outbred rats. *Alcohol,* 26, 43-47.

Kaczmarek, H.J. & Kiefer, S.W. (2000). Dopaminergic agents microinjected into the nucleus accumbens of rats alters alcohol consumption but not palatability. *Pharmacology, Biochemistry & Behavior,* 66, 307-312.

Rademacher, D.J., Kuppinger, H.E., Thompson, K.J., Kopish, A., Kaczmarek, H.J., & Steinpreis, R.E. (1999). The effect of amperozide on cocaine-induced social withdrawal in rats. *Behavioral Brain Research,* 99, 75-80.

Kiefer, S.W., Hill, K.G., & Kaczmarek, H.J. (1998). Taste reactivity to alcohol and basic tastes in outbred mice. *Alcoholism: Clinical and Experimental Research*, 22, 1146-1151.

Kuppinger, H., Harrington, A., Kaczmarek, H.J., & Steinpreis, R.E. (1996). The effects of psychotomimetics on choice of social interaction in drugged and undrugged rats. *Experimental and Clinical Psychopharmacology*, 4, 77-81.

Steinpreis, R.E., Kaczmarek, H.J., & Harrington, A. (1996). The effects of cyproheptadine on vacuous jaw movements in rats: a comparison with haloperidol and clozapine. *Psychopharmacology Bulletin,* 32, 129-134.

Steinpreis, R.E., Kaczmarek, H.J., & Harrington, A. (1996). The effects of raclopride on vacuous jaw movements in rats following acute administration. *Physiology & Behavior,* 60, 253-256.

Submitted

*Nelms, J.L., Ward, M.A., Meyer, A.E., Miller, M.M., and Sable, H.J.K. (submitted; in revision). The effects of developmental exposure to Bisphenol A on anxiety- and depression-like behaviors in outbred CD-1 mice. *This paper was written by Jenna Nelms, a graduate student at the University of Memphis who was mentored by Dr. Sable.

In preparation

Schriefer, J.H.M., Gunnels, T.A., Lee, S-R., Sable, H.J., Buddington, R.K., Buddington, K.K., and Bloomer, R.J. (in preparation). Impact of dietary composition and exercise training on physical performance and body composition in male rats: influence of ad libitum feeding and mild caloric restriction.

Sprowles, J.L.N., Miller, M.M., Meyer, A.E., and Sable, H.J.K. (in preparation). Estrogenic endocrine disrupting chemicals: effects on estrogen regulation and anxiety and depression-like behavior.

*Miller, M.M., Meyer, A.E., Nelms, J. L., Ward, M. A., & Sable, H.J.K. (in preparation). Operant intravenous cocaine self-administration in rats developmentally exposed to polychlorinated biphenyls (PCBs). *This paper is being written by Mellessa Miller, a graduate student at the University of Memphis under the mentorship of Dr. Sable.

Published Book Chapters

Sable, H.J.K. & Schantz, S.L. (2006). Executive function following developmental exposure to polychlorinated biphenyls (PCBs): What animal models have told us. In E.D. Levin & J.J. Buccafusco (Eds.), *Animal Models of Cognitive Impairment* (Frontiers in Neuroscience), CRC Press: New York, NY, pp. 147-167.

Sable, H.J.K., Bell, R.L., Rodd, Z.A., & McBride, W.J. (2006). Effects of naltrexone (NTX) on the acquisition of alcohol drinking during periadolescence and adulthood. In I. Kandel, J. Merrick, & L. Sher (Eds.), *Adolescence and Alcohol. An International Perspective*, Freund Publishing House: London/Tel Aviv.

Presentations - Conference

Sable, H. J. K., Miller, M. M. Nelms, J. L., Meyer, A. E., Poon, E., Eubig, P. A., and Schantz, S. L. (2014). Behavioral Pharmacology of Cocaine and Amphetamine in Rats Perinatally Exposed to Polychlorinated Biphenyls (PCBs). Talk presented at the Neurobehavioral Teratology Society Annual Meeting, Bellevue, WA.

Sable, H.J.K., Poon, E., Monaikul, S., Eubig, P.A., & Schantz, S.L. (2010). The behavioral response to psychostimulants is altered in rats perinatally exposed to an environmentally relevant mixture of polychlorinated biphenyls (PCBs). Talk presented at the annual MidSouth Society of Environmental Toxicology and Chemistry meeting; Memphis, TN.

*Watson, C.W., Ward, M. A., Nelms, J. L. Meyer, A.E., Miller, M.M., Mittleman, G., & Sable, H.J.K. (2011). Developmental Bisphenol-A Exposure: Effects on Working Memory in a Delayed Spatial Alternation Task. Presented at the National Conference on Undergraduate Research; Ithica, NY. *Cameron Watson was an undergraduate Honors student.

Sable, H.J.K., Poon, E., Monaikul, S., Eubig, P.A., & Schantz, S.L. (2010). The behavioral response to psychostimulants is altered in rats perinatally exposed to an environmentally relevant mixture of polychlorinated biphenyls (PCBs). Talk presented at the annual MidSouth Society of Environmental Toxicology and Chemistry meeting; Memphis, TN.

Sable, H.J.K., Poon, E., Monaikul, S., & Schantz, S.L. (2009). Behavioral Sensitization to d-amphetamine is reduced in rats developmentally exposed to PCBs. Talk presented at the annual Neurobehavioral Teratology Society Meeting; Rio Grande, Puerto Rico.

Sable, H.J.K., Powers, B.E., Wang, V.C., Widholm, J.J., & Schantz, S.L. (2006). Inhibitory control deficits in rats following developmental exposure to an environmental PCB mixture. Talk presented at annual Neurobehavioral Teratology Society Meeting; Tucson, AZ.

Schantz, S.L., Sable, H.J.K., Widholm, J.J., & Seegal, R.F. (2006). Perinatal PCB Exposure, Deficits in Inhibitory Control and Hypofunction of Prefrontal Dopamine: Parallels with ADHD. Talk presented at the Neurotoxicology Meeting; Little Rock, AR.

Schantz, S.L., Powers, B.E., Sable, H.J.K. & Aguiar, A. (2006). Applying data from animal models of PCB exposure to epidemiological research: the early indicators approach. Talk presented at the fourth PCB Workshop: Recent Advances in the Environmental Toxicology and Health Effects of PCBs; Zakopane, Poland.

Schantz, S., Widholm, J., Roegge, C., & Sable, H. (2006). Cognitive and motor effects of early developmental exposure to low doses of methyl mercury in a rodent model. Talk presented at the Conference on Mercury as a Global Pollutant; Madison, WI.

Bell, R.L., Rodd, Z.A., Sable, H.J.K., McKinzie, D.L., McQueen, V.K., Schultz, J.A., Murphy, J.M., Lumeng, L., & McBride, W.J. (2005). Assessing the role of the opioid system as a pharmacotherapeutic target in the treatment of alcoholism: old and new. Part of Recent Advances in Pre-Clinical medication *development for the treatment of alcoholism* (Z. Rodd & M. Egli, Chairs). *Alcoholism: Clinical and Experimental Research*, 29 (*Suppl),* 187A.

Sable, H.J.K., Strother, W.N., Smith, D.G., Lumeng, L., Li, T.-K., & McBride, W.J. (2004). Functional neuronal activity in alcohol-preferring (P) rats with chronic ethanol drinking. Part of *Neuroimaging of Animal Models of Alcoholism: Initial Reports from the Integrative Neuroscience Initiative on Alcoholism* (E.V. Sullivan & K.A. Grant, Chairs). *Alcoholism: Clinical and Experimental Research*, 28 (*Suppl),* 187A.

White, S.L., Kaczmarek, H.J., & Steinpreis, R.E. (2002). The effects of naltrexone implants on the conditioned place preference of cocaethylene and the coadministration of ethanol and cocaine in rats. Talk presented at the Midwestern Psychological Association Meeting; Chicago, IL.

Kaczmarek, H.J. (2001). The influence of genetic history and alcohol exposure on whole brain monoamines in mice. Meeting of the Missouri Conference on Psychopharmacology, Animal Learning, and Neuroscience; Columbia, MO.

Steinpreis, R.E., Kaczmarek, H.J., & Harrington, A. (1995). Vacuous jaw movements as a screening procedure for atypical anitpsychotics. Talk presented at the New Clinical Drug Evaluation Unit Meeting; Orlando, FL.

Poster Presentations

Miller, M. M., Sprowles, J. L. N., Meyer, A. E., Voeller, J. N., Matthews, S., and Sable, H. J. K. (2015). Perinatal exposure to polychlorinated biphenyls alters cocaine behavioral sensitization and dopamine transporter (DAT) expression in the striatum and medial prefrontal cortex of Long -Evans rats. Poster presented at the Neurobehavioral Teratology Society Annual Meeting, Montreal, Quebec, Canada.

*Sprowles, J. L. N., Miller, M. M., Meyer, A. E., and Sable, H. J. K. (2015). Gestational exposure to diethylstilbestrol does not elicit alterations in anxiety- and depressive-like behaviors in C57Bl/6 mice. Poster presented at the Neurobehavioral Teratology Society Annual Meeting, Montreal, Quebec, Canada. *Conference award winner.

Miller, M. M. Voeller, J. N., Meyer, A. E., Nelms, J. L., Sable, H. J. K. (2014). Perinatal exposure to PCBs alters amphetamine and cocaine behavioral sensitization. Poster presented at Society of Toxicology Annual Meeting, Phoenix, AZ.

Miller, M.M., Nelms, J.L., Meyer, A.E., and Sable, H.J.K. (2013). Dopamine transporter (DAT) expression in the medial prefrontal cortex and striatum of Long-Evans rats is affected by perinatal exposure to polychlorinated biphenyls. Poster to be presented at the annual Society for Neuroscience Convention; San Diego, CA.

Meyer, A.E., Miller, M.M., Nelms, J.L., Benson, M.S., Levine, L., and Sable, H.J.K. (2013). Differential effects of dopaminergic ligands microinjected into the medial prefrontal cortex on

inhibitory control performance in rats perinatally exposed to PCBs. Poster presented at the annual Neurobehavioral Teratology Society Meeting; Tucson, AZ.

Miller, M.M., Meyer, A.E., Nelms, J.L., Dickson, P.E., Ward, M.A., and Sable, H.J.K. (2012). Cocaine intravenous self-administration (IVSA) in adult Long-Evans rats exposed to polychlorinated biphenyls throughout gestation and lactation. Poster presented at the Society for Neuroscience Convention; New Orleans, LA.

*Fielding, J.R., Rogers, T.D., Meyer, A.E., Miller, M.M., Nelms, J.L., Ward, M.A., Mittleman, G., Blaha, C.D., and Sable, H.J.K. (2012). Perinatal exposure to polychlorinated biphenyls in rats alters cocaine-induced dopamine efflux in the nucleus accumbens. Poster presented at the annual Neurobehavioral Teratology Society Meeting; Baltimore, MD. *Conference Award winner.

Ward, M.A., Nelms, J.L., Miller, M.M., Meyer, A.E., Mittleman, G., and Sable, H.J.K. (2012). Developmental Bisphenol A exposure in mice does not impair performance on a spatial reversal learning task. Poster presented at the annual Neurobehavioral Teratology Society Meeting; Baltimore, MD.

Sable, H.J.K., Rogers, T.D., Fielding, J.R., Meyer, A.E., Miller, M.M., Nelms, J.L., Ward, M.A., Mittleman, G., and Blaha, C.D. (2011). Cocaine-induced dopamine efflux in the nucleus accumbens in rats perinatally exposed to polychlorinated biphenyls. Poster presented at the Society for Neuroscience Convention; Washington D.C.

Meyer, A.E., Miller, M.M., Nelms, J.L., Ward, M.A., and Sable, H.J.K. (2011). Inhibitory control performance in rats developmentally exposed to PCBs following microinjections of bupropion into the medial prefrontal cortex. Poster presented at the annual Neurotoxicology Conference; Research Triangle Park, NC.

Nelms, J., Ward, M., Meyer, A., Miller, M., and Sable, H. (2011). Anxiety- and depressive-like behaviors in CD-1 mice perinatally exposed to Bisphenol A. Poster presented at annual Neurobehavioral Teratology Society Meeting; Coronado, CA.

Ward, M., Nelms, J., Miller, M., Meyer, A., Watson, C., Mittleman, G., and Sable, H. (2011). The effects of developmental Bisphenol A exposure in mice on alternation behavior and working memory. Poster presented at annual Neurobehavioral Teratology Society Meeting; Coronado, CA.

Nelms, J., Meyer, A., Miller, M., Ward, M, and Sable, H. (2010). Locomotor Responding in Adolescent CD-1 Mice following Acute and Chronic Cocaine Administration is Unaffected by Low Dose Perinatal Bisphenol A Exposure. Poster presented at annual Neurobehavioral Teratology Society Meeting; Louisville, KY.

Sable, H.J.K., Monaikul, S., Poon, E., Eubig, P.A., & Schantz, S.L. (2009). Discriminative stimulus effects of cocaine and amphetamine in rats following developmental exposure to polychlorinated biphenyls (PCBs). Poster presented at the Society for Neuroscience Convention, Chicago, IL.

Powers, B.E., Poon, E., Eubig, P.A., Sable, J.J., Sable, H.J.K., & Schantz, S.L. (2009). Role of thyroid hormone in polychlorinated biphenyl induced hearing loss. Poster presented at the Society for Neuroscience Convention, Chicago, IL.

Sable, H.J.K., Powers, B.E., Eubig, P.A., & Schantz, S.L. (2008). Cognitive and auditory deficits associated with perinatal PCB exposure can be attenuated with co-exposure to MeHg. Poster presented at the Fifth PCB Workshop, Iowa City, IA.

Sable, H.J.K., Powers, B.E., Wang, V.C., & Schantz, S.L. (2007). Effects of amphetamine drug challenge during an inhibitory control task in rats developmentally exposed to PCBs and/or MeHg. Poster presented at the Society of Toxicology Convention; Charlotte, NC.

Sable, H. J.K., Ji, D., Strother, W.N., Bell, R.L., Rodd, Z.A., Schultz, J.A., Lumeng, L., & McBride, W.J. (2005). Local cerebral glucose utilization (LCGU) rates in peri-adolescent alcohol -preferring (P) rats following scheduled access (E) drinking. *Alcoholism: Clinical and Experimental Research*, 29 (*Suppl),* 17A.

Bell, R.L., Rodd, Z.A., Sable, H.J.K., McQueen, V.K., Davids, M.R., Murphy, J.M., Lumeng, L., & McBride, W.J. (2004). Cannabinoid CB1 antagonist reduces alcohol intake during acquisition, maintenance, and relapse in inbred alcohol-preferring (iP) rats. Poster presented at the Society for Neuroscience Convention; San Diego, CA.

Rodd, Z.A., Bell, R.L.; Strother, W.N., Sable, H.J.K., Aloor, H., McClintick, J.N., Stephens, M., Jerome, R., Liu, W.-M., Lumeng, L., Murphy, J.M., Edenberg, H.J., & McBride, W.J. (2004). Self-infusion of ethanol into the posterior ventral tegmental area (VTA) alters gene expression in VTA projection areas. *Alcoholism: Clinical and Experimental Research*, 28 (*Suppl),* 89A.

Sable, H.J.K., Bell, R.L.; Rodd, Z.A., Schultz, J.A., Murphy, J.M., & McBride, W.J. (2004). Effects of naltrexone on the acquisition of ethanol intake in adolescent and adult alcohol-preferring (P) rats. *Alcoholism: Clinical and Experimental Research*, 28 (*Suppl),* 95A.

Rodd, Z.A., McKinzie, D.L., Bell, R.L., Sable, H.J.K., Lumeng, L., Murphy, J.M., Schoepp, D.D. , & McBride, W.J. (2004). LY404039, a metabotropic glutamate 2/3 agonist, reduces alcohol craving in alcohol-preferring (P) rats. *Alcoholism: Clinical and Experimental Research*, 28 (*Suppl),* 134A.

Sable, H.J.K., Bell, R.L.; Rodd, Z.A., Schultz, J.A., Lumeng, L., & McBride, W.J. (2003). Local cerebral glucose utilization (LCGU) rates in adult alcohol-preferring (P) rats following chronic ethanol drinking. Poster presented at the Society for Neuroscience Convention; New Orleans, LA.

Rodd, Z.A., Bell, R.L., Sable, H.J., Pommer, T.J., McQueen, V.K., Lumeng, L., Murphy, J.M., McBride, W.J. (2003). Naltrexone reduces two measures of alcohol craving in inbred alcohol-preferring (iP) rats. Poster presented at the Society for Neuroscience Convention; New Orleans, LA.

Sable, H.J.K., Strother, W.N., Bell, R.L.; Rodd, Z.A., Lumeng, L., Li, T.-K., & McBride, W.J. (2003). Local cerebral glucose utilization (LCGU) rates in adult alcohol-preferring (P) rates are

unaltered by peri-adolescent alcohol drinking. *Alcoholism: Clinical and Experimental Research,* 27 (*Suppl),* 129A.

Sable, H.J.K., Rodd-Henricks, Z.A., Bell, R.L., Zhang, Y., Lumeng, L., McBride, W.J., Li, T.-K., Murphy, J.M. (2002). Intracranial self-administration of ethanol into the nucleus accumbens shell by alcohol preferring (P) rats. Poster presented at the Society for Neuroscience Convention; Orlando, FL.

Rodd-Henricks, Z.A., Sable, H.J.K., Bell, R.L., Kuc, K.A., Murphy, J.M., McBride, W.J., Lumeng, L., & Li, T.-K. (2002). Repeated alcohol deprivations retard extinction responding and enhance Pavlovian spontaneous responding by alcohol-preferring (P) rats. *Alcoholism: Clinical and Experimental Research,* 26 (*Suppl),* 62A.

Kaczmarek, H.J. & Steinpreis, R.E. (2001). Systemically administered dopaminergic agents decrease limited access EtOH consumption in rats. Poster presented at the Midwestern Psychological Association Meeting; Chicago, IL.

Kaczmarek, H.J., Hill, K.G., Rademacher, D.J., Kiefer, S.W. & Steinpreis, R.E. (2000). Voluntary ethanol consumption and whole brain monoamine levels in high-consuming (HiCo) and low-consuming (LoCo) mice. Poster presented at the Society for Neuroscience Convention; New Orleans, LA.

Coonfield, D.L., Hill, K.G., Kaczmarek, H.J., Ferraro III, F.M., Schneider, P., Chandler, L., & Kiefer, S.W. (2000). Low doses of naltrexone alter alcohol palatability and consumption in rats. Poster presented at the Research Society on Alcoholism Meeting; Denver, CO.

Ferraro III, F.M., Hill, K.G., Kaczmarek, H.J., Coonfield, D.L., Hardin, K., Taylor, K.A., & Kiefer, S.W. (2000). Naltrexone alters taste reactivity to alcohol and other tastes in rats. Poster presented at the Research Society on Alcoholism Meeting; Denver, CO.

Hill, K.G., Kaczmarek, H.J., & Sable, J.J. (1999). Human brain laboratory for undergraduate psychobiology. *Society for Neuroscience Abstracts,* 25, 270.

Hill, K.G., Kaczmarek, H.J., & Kiefer, S.W. (1999). Route of chronic naltrexone treatment differentially affects alcohol responses in rats. *Society for Neuroscience Abstracts,* 25, 1080.

Hill, K.G., Kaczmarek, H.J., & Kiefer, S.W. (1998). Selective breeding of high-alcohol consuming (HiCo) and low-alcohol consuming (LoCo) mice. *Society for Neuroscience Abstracts,* 24, 1200.

Hill, K.G., Kaczmarek, H.J., & Kiefer, S.W. (1998). Chronic naltrexone treatment alters the palatability and consumption of alcohol in rats. Poster presented at the Research Society on Alcoholism Meeting; Hilton Head, SC.

Kaczmarek, H.J. & Kiefer, S.W. (1998). Microinjections of dopaminergic agents in the nucleus accumbens of rats alters alcohol ingestion. *Society for Neuroscience Abstracts,* 24, 1479.

Kaczmarek, H.J., Hill, K.G., & Kiefer, S.W. (1997). Continuous access to ethanol and palatability shifts in C57BL mice as measured by taste reactivity. *Society for Neuroscience Abstracts*, 23, 2390.

Rademacher, D.J., Kuppinger, H.E., Thompson, K.J., Harrington, A., Kaczmarek, H.J., Kopish, A.J., & Steinpreis, R.E. (1997). The effects of amperozide on cocaine-induced social withdrawal in rats. Poster presented at the American Psychological Association Convention; Chicago, IL.

Kaczmarek, H.J., Hill, K.G., & Kiefer, S.W. (1996). Taste reactivity concentration-response functions for alcohol and sucrose solutions in outbred mice. *Society for Neuroscience Abstracts*, 22, 701.

Kaczmarek, H.J., Kramer, M.A., Panos, J.J., & Steinpreis, R.E. (1995). Appetitive social interactions between unfamiliar juvenile and adult male rats. Poster presented at the American Psychological Society Convention; New York, NY.

Kuppinger, H., Harrington, A., Kaczmarek, H., & Steinpreis, R.E. (1995). The effects of amphetamine and cocaine on voluntary social behavior in rats. Poster presented at the Midwestern Psychological Association Meeting; Chicago, IL.

Other Presentations

Sable, H.J.K. (2011). What we've learned about perinatal Bisphenol A exposure on measures of depression, anxiety, and executive function in mice. Neurotoxicology Seminar, National Center for Toxicological Research, Little Rock, AR.

Sable, H.J.K. (2003). Neuroimaging of ethanol seeking and drinking behaviors in alcohol-preferring (P) rats. Indiana University Institute for Psychiatric Research Informal Seminar Series, Indianapolis, IN.

Kaczmarek, H.J. (2001). Why we "like" things we may not "want": dissociating reward in the brain. University of Missouri Cognition and Neuroscience Seminar Series, Columbia, MO.

Kaczmarek, H.J. & Steinpreis, R.E. (2001). Dopaminergic agents decrease ethanol consumption when administered systemically. Talk presented at the Association of Graduate Students in Psychology (AGSIP) Spring Symposium; Milwaukee, WI.

Kaczmarek, H.J. & Kiefer, S.W. (1999). Dopaminergic agents affect alcohol consumption. Talk presented at the 3rd Annual Kansas State University Graduate Research Forum; Manhattan, KS.

Professional Memberships

Neurobehavioral Teratology Society
Society for Neuroscience
Society of Toxicology (Specialty Sections: Neurotoxicology, Women in Toxicology)

Editorial and Grant Reviewer Activity

Neurotoxicology & Teratology Editorial Advisory Board (2010 - present)
Center for Scientific Review, Study Section: ZRG1 IFCN C (02) - Member Conflict: Alcohol and Reward (September, 2012)
Center for Scientific Review, Study Section: Neurotoxicology and Alcohol (NAL; November, 2011), Junior Reviewer

Ad Hoc Reviewer

Critical Reviews in Toxicology
Ecotoxicology and Environmental Safety
Environmental Health Perspectives
Genes, Brain & Behavior
Neurotoxicology
Neurotoxicology & Teratology
Pharmacology, Biochemistry & Behavior
Physiology & Behavior
Toxicological Sciences
Women in Science and Engineering

Teaching Experience

Graduate Courses
Techniques of Educational Research

Undergraduate Courses
Introduction to Psychology, *Psychology as* a *Social Science, Behavioral Neuroscience/Physiological Psychology*, *Research Experience in Psychology*, *Research Methods and Statistics II* (face-to-face & online), *Psychological Statistics*

Teaching Grants

University of Memphis Department of Psychology, Active Learning Mini-grant: *Click Your Way to an "A": Using Personal Response Systems to Promote Participation and Comprehension in Undergraduate Psychological Statistics* ($1000; 2009).

Current Student Advising/Mentoring

Name	Current Degree(s)	Anticipated Year of Degree Completion
Mellessa Miller	BS, MS	PhD (Dec, 2015)
John Jay MacDonnchadh	BS	MS (Dec, 2015)
Madeleine Holdford		BA with Honors (Dec, 2015)
William Jones		BA with Honors (Dec, 2015)

Past Student Advising/Mentoring

Name	Degree	Year of Graduation
Abby Meyer	PhD	2015
Jenna Sprowles	PhD	2014
Megan Benson	BA with Honors	2014
Jason Voeller	BA with Behavioral Neuroscience Concentration	2014
Jenna Fielding	BS with Honors	2013
Michele Calton	BS with Honors	2012

Cameron Watson	BS with Honors	2011
Jennifer Agee	BS with Honors	2011

Service

Professional

Neurobehavioral Teratology Society, Council Member (2015-present)
Neurobehavioral Teratology Society, Treasurer (2011-2015)
Neurobehavioral Teratology Society, Publications Committee Member (2010 - 2012)
Neurobehavioral Teratology Society, Finance Committee Chair (2009)
Neurobehavioral Teratology Society, Finance Committee Member (2007 - 2009)
Neurobehavioral Teratology Society, Finance Committee Member (2007 - 2009)
American Psychological Association Science Student Council, Biopsychology Representative (Fall 2000 - Summer 2002)

University

Institutional Animal Care and Use Committee, University of Memphis (Fall, 2014 - present)
University Undergraduate Council (elected position), University of Memphis, (Fall 2011 - present)
College of Arts and Sciences Undergraduate Curriculum Committee, Psychology Department Representative, University of Memphis (Fall 2011 - present)
Preparing Future Faculty Program Coordinator, University of Wisconsin - Milwaukee, Center for Instructional and Professional Development (Summer 2000 - Summer 2002)

Department

University of Memphis Psychology Department, Undergraduate Program Director (Fall 2014 - present)
University of Memphis, Undergraduate Advisory Committee (UGAC; 2008 - present)
University of Wisconsin-Milwaukee Association of Graduate Students in Psychology (AGSIP), Vice-president (Fall 2000 - Spring 2001)
University of Wisconsin-Milwaukee Psychology Department Student member of Experimental Committee (Fall 1999, Spring 2000)
University of Wisconsin-Milwaukee Psychology Department Colloquium Committee (Fall 1999, Spring 2000)
Kansas State University Graduate Association of Psychology Students (GAPS), treasurer (Fall 1997 - Spring 1999)

Awards and Honors

2015: University of Memphis, College of Arts & Sciences Travel Enrichment Award
2012: University of Memphis Michael B. and Shirley L. Lupfer Excellence in Undergraduate Teaching Award
2011: University of Memphis, College of Arts & Sciences Travel Enrichment Award
2007: Cold Spring Harbor Laboratory Cellular Biology of Drug Addiction Course
2001: American Council for Polish Culture Casimir Pulaski Scholarship for Advanced Studies
2001: APF/COGDOP Graduate Research Scholarship
2001: American Psychological Association Dissertation Fellowship
2001: Dissertation Fellowship, University of Wisconsin - Milwaukee

2000: Women In Neuroscience Travel Award
2000: Society for Neuroscience Travel Award
1999: Outstanding Graduate Mentor Award Nominee, Kansas State University
1999: Second Place, Biological Sciences Division, Kansas State University 3rd Annual Graduate Research Forum
1999: Graduate Teaching Award Nominee, Kansas State University
1998: Outstanding Graduate Mentor Award Nominee, Kansas State University
1997: Graduate Teaching Award Nominee, Kansas State University
1995: American Psychological Society, Psi Chi Student Travel Award
1994: Golden Key National Honor Society
1994: Phi Kappa Phi National Honor Society
1994: Psi Chi Psychology National Honor Society
1992: Phi Eta Sigma National Honor Society