

Jenna L. N. Sprowles, Ph.D.

Curriculum Vitae

Current Contact Information

Cincinnati Children's Hospital Medical Center
Division of Pediatric Neurology
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Education and Training

- 01/2015 - present **Postdoctoral Research Fellowship**
Division of Pediatric Neurology, Cincinnati Children's Hospital Medical Center,
Cincinnati, OH
Mentors: Charles Vorhees, Ph.D. and Michael Williams, Ph.D.
- 05/2010 – 12/2014 **Ph.D. in Experimental Psychology**, concentration in **Behavioral Neuroscience**
Department of Psychology, University of Memphis
Memphis, TN
Title of Dissertation: "The effects of diethylstilbestrol administration during late
pregnancy on anxiety- and depressive-related behaviors in C57Bl/6 mice"
Mentor: Helen J.K. Sable, Ph.D.
- 08/2007 – 05/2010 **M.S. in General Psychology**, concentration in **Behavioral Neuroscience**
Department of Psychology, University of Memphis
Memphis, TN
Title of Master's Thesis: "The effects of developmental exposure to Bisphenol A on
anxiety- and depression-like behaviors in outbred CD-1 mice"
Mentor: Helen J.K. Sable, Ph.D.
- 08/2003 – 05/2007 **B.S. with Double Major in Cell and Molecular Biology, Psychology**
Tulane University
New Orleans, LA

Research Experience

Neurology Research Lab

01/2015 – present

Cincinnati Children's Hospital Medical Center, Division of Neurology
Postdoctoral Research Fellow, Primary Advisor: Dr. Charles Vorhees

- Developmental Neurotoxicology
 - Effects of developmental exposure to selective serotonin reuptake inhibitors (SSRIs) on autism-like behavior and epigenetic modifications; use of electrophysiological techniques to investigate altered serotonergic circuitry [e.g. hippocampal long-term potentiation (LTP)] induced by SSRIs
 - Effects of developmental exposure to PCBs on reproductive health, behavior, hippocampal LTP, and epigenetic outcomes in mice
 - Effect of *LPHN* knock-out on behavior and electrophysiological outcomes (LTP) in rats

Behavioral Toxicology Research Lab

08/2008-12/2014

University of Memphis, Psychology Department, Division of Behavioral Neuroscience

Graduate Researcher, Advisor: Dr. Helen Sable

- Developmental Neurotoxicology
 - Effects of developmental exposure to endocrine disrupting chemicals BPA and DES on behavior of adult mice
 - Effects of perinatal exposure to polychlorinated biphenyls (PCBs) on inhibitory control, cocaine behavioral sensitization, cocaine self-administration, and dopaminergic alterations in rats

Behavioral Neuroscience Research Lab

01/2008-04/2008

University of Memphis, Psychology Department, Division of Behavioral Neuroscience

Graduate Research Assistant, Advisor: Dr. Charles Blaha

- Assisted with fixed potential amperometry in genetic mouse models of autism to investigate altered dopaminergic and glutamatergic circuitry

St. Jude Children's Research Hospital

08/2008-08/2009

Division of Behavioral Medicine

Behavioral Medicine Graduate Research Assistantship, Advisor: Dr. Lisa Kahalley

- Behavioral Medicine: Developmental Exposures and Health Behaviors
 - Examined cognitive, behavioral, and emotional deficits following treatment (radiation, chemotherapy) for childhood cancer, study funded by the National Institute of Drug Abuse

Center for Health Promotion and Evaluation

05/2008-05/2009

University of Memphis, Psychology Department, Behavioral Medicine Division

Graduate Research Assistant, Advisor: Dr. Leslie Robinson

- Behavioral Medicine: Health Behaviors
 - Examined factors associated with enhanced health behaviors such as smoking cessation in adolescents and their parents

Grants and Awards

Shared Facility Discovery Award (SFDA), Cincinnati Children's Research Foundation,

- Collaboration with CCHMC Pyrosequencing Core to examine epigenetic effects of developmental SSRI exposure: "The Effect of Perinatal Exposure to the Selective Serotonin Reuptake Inhibitor Citalopram on Hippocampal Gene Expression and Epigenetic Modifications: Implications for Autism"
- Pending proposal in Summer 2017; Anticipated Award Amount: \$12,500.00

Peer-Reviewed Publications

Sprowles, J.L.N., Hufgard, J.R., Gutierrez, A., Bailey, R.A., Jablonski, S.A., Williams, M.T., & Vorhees, C.V. (2017, accepted). Differential effects of perinatal exposure to antidepressants on learning and memory, acoustic startle, anxiety, and open-field activity in Sprague-Dawley rats. *International Journal of Developmental Neuroscience*.

Miller, M.M., **Sprowles, J.L.,** Voeller, J.N., Meyer, A.E., & Sable, H.J. (2017, in press). Cocaine sensitization in adult Long-Evans rats perinatally exposed to polychlorinated biphenyls. *Neurotoxicology and Teratology*.

Miller, M.M., Meyer, A.E., **Sprowles, J.L.N.**, & Sable, H.J. (2017). Cocaine self-administration in rats perinatally exposed to PCBs: Evaluating drug use in an animal model of environmental contaminant exposure. *Experimental and Clinical Psychopharmacology*, 25, 114-124.

Sprowles, J.L.N., Hufgard, J.R., Gutierrez, A., Bailey, R.A., Jablonski, S.A., Williams, M.T., & Vorhees, C.V. (2016). Perinatal exposure to the selective serotonin reuptake inhibitor citalopram alters spatial learning and memory, marble burying, forced swimming, startle response, and locomotion. *International Journal of Developmental Neuroscience*, 54, 39-52.

Meyer, A.E., Miller, M.M., **Sprowles, J.L.N.**, Levine, L.R., & Sable, H.J.K. (2015). A comparison of presynaptic and postsynaptic dopaminergic agonists on inhibitory control performance in rats perinatally exposed to PCBs. *Neurotoxicology & Teratology*, 50, 11-22.

Fielding, J.R., Rogers, T.D., Meyer, A.E., Miller, M.M., **Nelms, J.L.**, Ward, M.A., Mittleman, G., Blaha, C.D., & Sable, H.J. (2013). Stimulation-evoked dopamine release in the nucleus accumbens following cocaine administration in rats perinatally exposed to polychlorinated biphenyls. *Toxicological Sciences*, 136(1), 144-153.

Kahalley, L.S., Tyc, V., Wilson, S., **Nelms, J.**, Hudson, M.M., Wu, S., Xiong, X., & Hinds, P.S. (2011). Adolescent cancer survivors' smoking intentions are associated with aggression, attention, and smoking history. *Journal of Cancer Survivorship*, 5(2), 123-31.

Publications: Submitted or In Preparation

Hufgard, J.R., **Sprowles, J.L.**, Pitzer, E.M., Koch S.E., Jiang M., Wang Q., Rubinstein J., Puga A., Williams, M.T., and Vorhees, C.V. (2017, soon to be submitted). Prenatal exposure to PCBs in *Cyp1a2* knock-out mice causes changes in adult offspring fertility, reproduction, and behavior.

Miller, M.M., **Sprowles, J.L.N.**, Meyer, A.E., & Sable, H.J. (2017, soon to be submitted). Perinatal exposure to polychlorinated biphenyls alters dopamine and vesicular monoamine transporter expression in the striatum and mPFC modifying behavioral response in the acquisition phase of cocaine intravenous self-administration (IVSA) in adult rats.

Sprowles, J.L.N., Vorhees, C.V., & Williams, M.T. (2017, soon to be submitted). Postnatal exposure to lead, manganese, and stress impairs egocentric learning and memory in adult Sprague-Dawley rats.

Sprowles, J.L.N., Miller, M.M., Meyer, A.E., & Sable, H.J.K. (2017, soon to be submitted). Gestational diethylstilbestrol does not induce changes in emotion-related behaviors in adult C57BL/6 mice.

Hufgard, J.R., **Sprowles, J.L.**, Pitzer, E.M., Koch S.E., Jiang M., Wang Q., Rubinstein J., Puga A., Williams, M.T., and Vorhees, C.V. (2017, in preparation). Transgenerational epigenetic effects of prenatal PCB exposure.

Sprowles, J.L.N., & Sable, H.J.K. (2017, review paper, in preparation). Estrogenic endocrine disrupting chemicals: Special emphasis on estrogen regulation and effects on anxiety and depression-like behavior.

Sprowles, J.L.N., Ward, M.A., Meyer, A.E., Miller, M.M., Buddington, K., & Sable, H.J.K. (2017, in preparation). Perinatal exposure to bisphenol A in CD-1 mice does not elicit alterations in anxiety- and depressive-like behaviors.

Platform Presentations

- *Sprowles, J.L.N.**, Hufgard, J.R., Gutierrez, A., Bailey, R.A., Jablonski, S.A., Williams, M.T., & Vorhees, C.V. (2017, June). *Perinatal antidepressant exposure influences spatial learning and memory, acoustic startle response, anxiety, and locomotor activity in adult Sprague-Dawley rats*. Oral presentation to be delivered at the Annual Meeting for the Developmental Neurotoxicology Society, San Antonio, TX. ***DNTS Richard Butcher New Investigator Award presentation**
- Sprowles, J.L.N.**, Hufgard, J.R., Gutierrez, A., Bailey, R.A., Jablonski, S.A., Williams, M.T., & Vorhees, C.V. (2017, May). *Perinatal antidepressant exposure in rats has long-term effects on offspring behavior*. Oral presentation delivered at the Neurology Research Group meeting, Cincinnati Children's Hospital Medical Center, Cincinnati, OH.
- *Sprowles, J.L.N.**, Hufgard, J.R., Gutierrez, A., Bailey, R.A., Jablonski, S.A., Williams, M.T., & Vorhees, C.V. (2016, June). *Perinatal citalopram exposure alters spatial learning and memory, acoustic startle response, anxiety, and sociability in adult Sprague-Dawley rats*. Oral presentation delivered at the Annual Meeting for the Developmental Neurotoxicology Society, San Antonio, TX. ***Conference travel award**
- Sprowles, J.L.N.**, Hufgard, J.R., Gutierrez, A., Bailey, R.A., Jablonski, S.A., Williams, M.T., & Vorhees, C.V. (2016, April). *Perinatal exposure to the SSRI citalopram alters spatial learning and memory, sociability, anxiety, and startle in Sprague-Dawley rats*. Oral presentation delivered at the Neurology Research Group meeting, Cincinnati Children's Hospital Medical Center, Cincinnati, OH.
- Sprowles, J.L.N.**, & Sable, H.J.K. (2014, October). *Developmental exposure to estrogenic endocrine disruptors bisphenol A and diethylstilbestrol did not impact anxiety- and depressive-like behavior in adult mice*. Oral presentation delivered at the Neurology Research Group meeting, Cincinnati Children's Hospital Medical Center, Cincinnati, OH.
- Sable, H.J.K., Miller, M.M., **Nelms, J.L.**, Meyer, A.E., Poon, E., Eubig, P., & Schantz, S. (2014, July). *Behavioral pharmacology of cocaine and amphetamine in rats perinatally exposed to polychlorinated biphenyls*. Platform presentation delivered at the Annual Meeting of the Neurobehavioral Teratology Society, Bellevue, WA.
- ## Poster Presentations
- Miller, M.M., **Sprowles, J.L.N.**, & Sable, H.J.K. (2017, March). *DAT and VMAT expression in the medial prefrontal cortex and striatum are altered by perinatal PCB exposure in male weanling rats*. Abstract accepted for poster presentation at the Annual Meeting of the Society of Toxicology, Baltimore, MD.
- *Sprowles, J.L.N.**, Hufgard, J.R., Gutierrez, A., Bailey, R.A., Jablonski, S.A., Williams, M.T., & Vorhees, C.V. (2016, November). *Developmental exposure to the selective serotonin reuptake inhibitor citalopram alters spatial learning and memory, anxiety, sociability, and acoustic startle response in the offspring of Sprague-Dawley rats as adults*. Poster presented at the Annual Meeting of the Society for Neuroscience, San Diego, CA. ***Abstract Featured in SfN 2016 Hot Topics Book and Press Release**
- Miller, M.M., **Sprowles, J.L.N.**, Meyer, A.E., Voeller, J.N., Calton, M.A., & Sable, H.J.K. (2016, March). *Perinatal exposure to PCBs alters cocaine behavioral sensitization and dopamine transporter (DAT) expression in the striatum and medial PFC of Long-Evans rats*. Poster presented at the Annual Meeting for the Society of Toxicology, New Orleans, LA.

Sprowles, J.L.N., Hufgard, J.R., Gutierrez, A., Bailey, R.A., Jablonski, S.A., Williams, M.T., & Vorhees, C.V. (2015, October). *Effects of perinatal administration of antidepressants on behavior of the adult offspring in Sprague-Dawley rats*. Poster presented at the Annual Meeting for the Society for Neuroscience, Chicago, IL.

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

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

Miller, M.M., Meyer, A.E., **Nelms Sprowles, J.L.**, Voeller, J.N., Cox, A.L., & Sable, H.J.K. (2014, November). *Perinatal exposure to PCBs alters cocaine behavioral sensitization and dopamine transporter (DAT) expression in the medial prefrontal cortex and striatum of Long-Evans rats*. Poster presented at the Annual Meeting for the Society for Neuroscience, Washington, D.C.

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

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

Meyer, A.E., Miller, M.M., **Nelms, J.L.**, Benson, M., Levine, L., & Sable, H.J.K. (2013, June). *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 Meeting of the Neurobehavioral Teratology Society, Tucson, AZ.

Miller, M.M., Meyer, A.E., **Nelms, J.L.**, Dickson, P.E., Ward, M.A., & Sable, H.J.K. (2012, October). *Cocaine intravenous self-administration (IVSA) in adult Long-Evans rats exposed to polychlorinated biphenyls throughout gestation and lactation*. Poster presented at the Annual Meeting of the Society for Neuroscience, 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., & Sable, H.J. (2012, June). *Perinatal exposure to polychlorinated biphenyls in rats alters cocaine-induced dopamine efflux in the nucleus accumbens*. Poster presented at the Annual Meeting of the Neurobehavioral Teratology Society, Baltimore, MD.

Ward, M.A., **Nelms, J.L.**, Miller, M.M., Meyer, A.E., Mittleman, G., & Sable, H.J. (2012, June). *Developmental bisphenol A exposure in mice does not impair performance on a spatial reversal learning task*. Poster presented at the Annual Meeting of the Neurobehavioral Teratology Society, Baltimore, MD.

- Sable, H.J., Rogers, T.D., Fielding, J.R., Meyer, A.E., Miller, M.M., **Nelms, J.L.**, Ward, M.A., Mittleman, G., & Blaha, C.D. (2011, November). *Cocaine-induced dopamine efflux in the nucleus accumbens in rats perinatally exposed to polychlorinated biphenyls*. Poster presented at the Annual Meeting of the Society for Neuroscience, Washington, D.C.
- Meyer A. E., Miller M. M., **Nelms J. L.**, Ward M. A., Sable H. J. K. (2011, October). *Inhibitory Control performance in rats developmentally exposed to PCBs following microinjection of Bupropion into the medial prefrontal cortex*. Poster presented at the Annual Meeting of the Neurotoxicology Society, Research Triangle Park, NC.
- Nelms, J.L.**, Meyer, A.E., Miller, M.M., Ward, M.A., & Sable, H.J. (2011, June). *Anxiety- and depression-like behaviors in mice developmentally exposed to bisphenol A*. Poster presented at the Annual Meeting of the Neurobehavioral Teratology Society, Louisville, KY.
- Ward, M.A., **Nelms, J.L.**, Miller, M.M., Meyer, A.E., Watson, C.M., Mittleman, G., & Sable, H.J. (2011, June). *The effects of developmental bisphenol A exposure in mice on working memory*. Poster presented at the Annual Meeting of the Neurobehavioral Teratology Society, Louisville, KY.
- Watson, C.M., Ward, M.A., **Nelms, J.L.**, Meyer, A.E., Dickson, P.E., Miller, M.M., Mittleman, G., & Sable, H.J. (2011, March). *Developmental Bisphenol-A Exposure: Effects on Working Memory in a Delayed Spatial Alternation Task*. Poster presented at the National Conference for Undergraduate Research, Ithaca, NY.
- Nelms, J.L.**, Meyer, A.E., Miller, M.M., Ward, M.A., & Sable, H.J. (2010, June). *Behavioral activation to cocaine in adolescent and adult CD-1 mice after low dose perinatal Bisphenol A (BPA) exposure*. Poster presented at the Annual Meeting of the Neurobehavioral Teratology Society, Coronado, CA.
- Kahalley, L.S., Wilson, S.J., **Nelms, J.L.**, Conklin, H., & Tyc, V.L. (2010, October). *Slower processing speed after treatment for pediatric ALL and brain tumor*. Paper presented at the Psycho-Oncology Symposium at the International Society of Pediatric Oncology, Boston, MA.
- Kahalley, L.S., **Nelms, J.L.**, Wilson, S.J., & Tyc, V.L. (2010, August). *Pediatric cancer survivors: Are clinical problems adequately identified and treated?* Paper presented at the American Psychological Association Annual Convention, San Diego, CA.
- Kahalley, L.S., Wilson, S.J., **Nelms, J.L.**, Conklin, H., & Tyc, V.L. (2010, April). *Processing speed and IQ discrepancies among survivors of pediatric cancer*. Poster presented at the Scientific Sessions of the Society of Behavioral Medicine, Seattle, WA.
- Ali, K. S., Robinson, L. A., Jackson, A. A., Hum, A. M., & **Nelms, J. L.** (2009, April). *Perceptions of parental attitudes regarding adolescent tobacco use: Changes over nine years*. Paper presented at the Fifteenth Annual Meeting of the Society for Research on Nicotine & Tobacco, Dublin, Ireland.
- Jackson, A.A., Robinson, L.A., Ali, K.S., Hum, A.M., & **Nelms, J.L.** (2009, April). *A longitudinal study of the influences of parents on adolescents' decision to quit smoking*. Poster presented at the Fifteenth Annual Meeting of the Society for Research in Nicotine & Tobacco, Dublin, Ireland.
- Nelms, J.L.**, Ali, K.S., Jackson, A.A., & Robinson, L.A. (2009, April). *Tobacco use among the parents of adolescent smokers*. Poster presented at the Fifteenth Annual Meeting of the Society for Research in Nicotine & Tobacco, Dublin, Ireland.

Robinson, L.A., Jackson, A.A., Ali, K.S., & **Nelms, J.L.** (2009, April). *Do parents sabotage their teens' efforts to quit smoking? A prospective study of the effects of parental attitudes and behaviors on adolescent quitting.* Poster presented at the Fifteenth Annual Meeting of the Society for Research in Nicotine & Tobacco, Dublin, Ireland.

Kahalley, L.S., **Nelms, J.L.**, Saunders, J.D., & Tyc, V.L. (2009, April). *Identification of clinical needs among survivors of childhood cancer.* Poster presented at the Midwest Conference on Pediatric Psychology, Kansas City, MO.

Local Conference Presentations

Voeller, J.N., Miller, M.M., Meyer, A. E., **Nelms, J. L.**, Sable, H. J. (2014, April). *Behavioral sensitization to cocaine is altered after perinatal exposure to polychlorinated biphenyls (PCBs).* Poster presented at the University of Memphis' Student Research Forum, Memphis, TN.

Ward, M.A., **Nelms, J.L.**, Miller, M.M., Meyer, A.E., Watson, C.M., Mittleman, G., & Sable, H.J. (2011, April). *The behavioral effects of developmental bisphenol A exposure in mice on cognition.* Poster presented at the University of Memphis' Student Research Forum, Memphis, TN.

***Nelms, J.L.**, Ward, M.A., Meyer, A.E., Miller, M.M., & Sable, H.J. (2011, April). *Anxiety- and depressive-like behaviors in CD-1 mice perinatally exposed to bisphenol A.* Poster presented at the University of Memphis' Student Research Forum, Memphis, TN. ***Forum award**

***Nelms, J.L.**, Meyer, A.E., Miller, M.M., Ward, M.A., & Sable, H.J. (2010, March). *Behavioral activation to cocaine in adolescent and adult CD-1 mice after low dose perinatal Bisphenol A (BPA) exposure.* Poster presented at the University of Memphis' Student Research Forum, Memphis, TN. ***Forum award**

Honors

- Richard Butcher New Investigator Award, Developmental Neurotoxicology Society, 2017
- Society for Neuroscience 2016 Hot Topics Book and Press Release: Project Featured (Impact of Developmental Citalopram Exposure on Autism-like Behaviors)
- Conference Travel Award, Developmental Neurotoxicology Society, 2016
- Conference Travel Award, Neurobehavioral Teratology Society, 2015
- Experimental Ph.D. Director's Award, University of Memphis Psychology Department, 2011
- Graduate Student Coordinating Committee Travel Award, University of Memphis Psychology Department, 2009, 2010, 2011, 2012, 2013, 2014
- Second Place, Student Research Forum, Social and Behavioral Sciences Division, University of Memphis, 2011
- First Place, Student Research Forum, Social and Behavioral Sciences Division, University of Memphis, 2010
- Tulane University Honor Student, 2004-2007
- Founder's Scholarship, Tulane University, 2003-2007
- Alpha Lambda Delta Honor Society, 2004

Teaching Experience

University of Memphis, 01/2011-08/2014

- Teaching Assistant for undergraduate PSYC 3020 (Research and Statistics II) for seven semesters (approximately 30 students in each class)
 - Covered topics included descriptive statistics, t-tests, ANOVAs, study design

- Guest lecturer, led class lab exercises
- Helped students with research projects, including data collection and analyses
- Graded lab exercises, exams, and APA style research papers

University of Memphis, 08/2012- 05/2013

- Primary Instructor for PSYC 1030 (General Psychology) for two semesters (approximately 60 students in each class)
 - Covered topics included biological aspects of brain and behavior, learning and memory, social psychology, developmental psychology, emotion, personality, and abnormal psychology
 - Constructed syllabus, planned and gave all lectures, organized class activities, led class discussions
 - Created all exams and weekly quizzes
 - Assigned final grades

University of Memphis, 05/2012

- Guest lecture: PSYC 3507 (Alcohol, Drugs, and Behavior), Dr. Melloni Cook
 - Lecture title: Pharmacological and Behavioral Effects of Caffeine

Mentoring Experience

Cincinnati Children's Hospital/University of Cincinnati, 10/2016-present

Mentor for the University Honors Program Biomedical Research and Mentoring Program (RaMP)

- Received mentor training sessions that specialized in strategies for advising students in the biomedical sciences
- Mentored and oversaw work of honor student in the lab (lab rodent husbandry, drug administration, behavioral testing, assays for protein, RNA, and neurotransmitter quantification)

Cincinnati Children's Hospital, 01/2015-present

- Trained several University of Cincinnati undergraduates to perform drug administration and behavioral testing in lab animals in addition to protein assays, Western blots, High Performance Liquid Chromatography, and RNA Scope techniques

University of Memphis, 08/2009-12/2014

- Trained numerous undergraduates in the Behavioral Toxicology Lab to perform various lab duties including dosing experimental animals with environmental contaminants, tracking estrous cycles of female mice, and behavioral testing in rodents

Professional and Community Experience

Women in Science, Tulane University Chapter, New Orleans, LA, 08/2003-05/2006

- Planned socials and professional panels for female undergraduates majoring in the sciences
- Volunteered at local elementary schools and performed science experiment demonstrations

Tulane Weekend Academy, Tulane University, New Orleans, LA, 09/2003-05/2004

- Tutor and mentor for elementary school-age children from underserved neighborhoods in New Orleans

Professional Associations

- Developmental Neurotoxicology Society (DNTS, formerly Neurobehavioral Teratology Society), 2010–present
 - Associate Member Representative (2015-2017)
- Society for Neuroscience, 10/2012–present
- Society of Toxicology, 01/2014-present

References

Charles Vorhees, Ph.D.
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