



## Curriculum Vitae

### Kimberly D. Ehman, PhD, DABT

#### EXPERIENCE

**2009 to Present** Toxicology Regulatory Services (TRS), Inc., Charlottesville, VA.

##### Toxicologist and Program Manager

Assist clients in addressing product stewardship and regulatory requirements for chemicals; review, interpret, integrate, and communicate existing toxicology, environmental fate, and physical/chemical properties data; identify, design, implement, scientifically monitor and manage testing programs, conduct risk assessments and prepare position papers to support clients' objectives; provide regulatory guidance, and interface with US and international regulatory agencies.

**2005 to 2009** RTI International, Research Triangle Park, NC.

##### Toxicology Study Director

Conducted preclinical and safety assessment evaluation studies for pharmaceutical, chemical, and governmental clients in the areas of neurotoxicology, developmental neurotoxicology, developmental and reproductive toxicology (DART), and general toxicology under prevailing EPA and FDA guidelines; functioned as the efficacy and toxicology task leader on the National Institute of Neurological Disorders and Stroke (NINDS) drug discovery projects for Parkinson's disease (PD) and spinal muscular atrophy (SMA).

**2005 to 2009** American National Standards Institute (ANSI), Washington, D.C.

##### Toxicology Consultant

Served as a technical expert for the ANSI accreditation process for product certification; conducted laboratory site visits within the U.S. and Canada for certification of drinking water programs; reviewed toxicological data under current NSF/ANSI 60 and 61 guidelines for evaluation of drinking water treatment chemicals and system components, respectively.

**2002 to 2005** U.S. Environmental Protection Agency, Research Triangle Park, NC/University of North Carolina at Chapel Hill, Chapel Hill, NC.

##### Postdoctoral Associate

Performed developmental neurotoxicology testing of organotin-exposed rats, which involved dosing animals during critical neurodevelopmental periods and performing neurobehavioral testing in pups and adults; conducted behavioral assays including functional observational battery (FOB), motor activity, spontaneous alternation, Morris water maze, and other neurological assessments; adapted neurochemical

assays that measure DNA fragmentation and caspase-3 activity ex vivo for determination of the progression of apoptotic cell death throughout developmental stages.

## **EDUCATION**

Ph.D., Parasitology, Institute of Parasitology, McGill University, Montréal, QC, Canada, 2002.

B.S., Biology, Seton Hill University, Greensburg, PA, 1997.

## **PROFESSIONAL CERTIFICATION**

Diplomate of the American Board of Toxicology, Certified, 2009

## **CONTINUING EDUCATION**

Mid-America Toxicology Course, Kansas City, MO, 2009

CNS Functional Teratology Continuing Education Course, Monterey, CA, 2008

Study Director Training, American College of Toxicology, 2005 and 2008

Good Laboratory Practices Workshop, North Carolina State University, 2005

Good Laboratory Practices (GLP) Short Course, EPA, 2003

General Toxicology, North Carolina State University/Toxicology Communications Inc., 2003

Neurotoxicology, Duke University, Durham, NC, 2003

Behavioral Test Methods Workshop, Philadelphia, PA, 2003

## **PROFESSIONAL ORGANIZATIONS**

Neurobehavioral Teratology Society, 2006 to date

- Finance committee, 2007 to date
- Publications committee, 2009 to date

Society of Toxicology, 2005 to date

## **HONORS AND AWARDS**

Annual Award for Technical Accomplishments, RTI International, 2006 to 2008

Early Career Author Award, RTI International, 2006

Behavioral Toxicology Society (BTS) Travel Award, 2003 and 2005

EPA/University of North Carolina Postdoctoral Associate Award, 2002 to 2005

Award for Best Student Paper, American Society of Parasitologists, 2001

Research Highlight: Helminth Infection: Is He or Isn't He? In: Trends in Parasitology, 2001

Alma Mater Student Travel Grant, McGill University, 2000 to 2001

Faculty of Graduate Studies & Research Fellowship, McGill University, 2000 to 2001

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Award for Excellence in Teaching Assistantship, Wildlife Ecology, McGill University, 2000

Lynden Laird Recruitment Scholarship, Institute of Parasitology, McGill University, 1997 to 2000

Outstanding Graduating Senior Biology Student, Seton Hill University, 1997

National Association of Intercollegiate Athletics (NAIA) Scholar-Athlete Award, National NAIA Athletic Conference, 1995 to 1996

Merit-based Athletic Scholarship, Seton Hill University, 1993 to 1996

## **TEACHING AND EDITORIAL EXPERIENCE**

Guest lecturer for psychology course entitled “Human Sexuality,” Duke University. Topics covered include sexual selection, sexually dimorphic characteristics, and neuroendocrine interactions, 2005 to 2007.

Reviewer, Animal Behavior; Behavioral Ecology & Sociobiology; Behavioral Processes; Pharmacology, Biochemistry & Behavior; Neurotoxicology; Neurotoxicology & Teratology, 2001 to Present.

Teaching Assistant, Wildlife Ecology, Department of Natural Resource Sciences, McGill University, 1998 to 2002.

Teaching Assistant, Microbiology, Department of Biology, Seton Hill University, 1997.

## **PUBLICATIONS**

Moser, V.C., J.K. McGee and K.D. Ehman. 2009. Concentration and persistence of tin in rat brain and blood following dibutyltin exposure during development. *J. Toxicol. Environ. Health. A.* 72:47-52.

Ehman, K.D., P.M. Phillips, K.L. McDaniel, S. Barone Jr., and V.C. Moser. 2007. Evaluation of developmental neurotoxicity of organotins via drinking water in rats: Dimethyl tin. *Neurotoxicol. Teratol.* 29: 622-633.

Moser, V.C., S. Barone, Jr., P.M. Phillips, K.L. McDaniel, and K.D. Ehman. 2006. Evaluation of developmental neurotoxicity of organotins via drinking water in rats: Monomethyl tin. *Neurotoxicology* 27:409–420.

Ehman, K.D., and V.C. Moser. 2006. Evaluation of cognitive function in weanling rats: A review of methods suitable for chemical screening. *Neurotoxicol. Teratol.* 28:144–161.

Bushnell, P., and K.D. Ehman. 2005. Organotins. In *Encyclopedia of Toxicology* (2<sup>nd</sup> edition).

Jenkins, S.M., K.D. Ehman, and S. Barone, Jr. 2004. Structure-activity comparison of organotin species: dibutyltin is a developmental neurotoxicant in vitro and in vivo. *Dev. Brain Res.* 151:1–12.

Ehman, K.D., and M.E. Scott. 2004. Microsatellite DNA analysis reveals that female mice are indiscriminate when choosing infected or dominant males in an arena setting. *Parasitology* 129:723–731.

Ehman, K.D., and M.E. Scott. 2002. Female mice mate preferentially with non-parasitized males. *Parasitology* 125:461–466.

Ehman, K.D., and M.E. Scott. 2001. Urinary odour preference of MHC congenic female mice, *Mus domesticus*: implications for kin recognition and detection of parasitized males. *Anim. Behav.* 62:781–789.

Ehman, K.D. 2001. Nematode parasites of the eastern chipmunk from Armstrong County, Pennsylvania. *J. Penn. Acad. Sci.* 75:62–65.

## **PRESENTATIONS**

Ehman, K.D. 2008. MPTP mouse models of Parkinson's disease. Presented at NINDS, Bethesda, MD (invited).

Ehman, K.D. 2007. Cognitive endpoints in behavioral testing. Presented at the Middle Atlantic Reproduction and Teratology Association (MARTA) fall meeting, GlaxoSmithKline, Collegeville, PA (invited).

Moser, V.C., K.D. Ehman, P.M. Phillips, K.L. McDaniel, J.K. McGee. 2007. Brain and blood tin levels in a developmental neurotoxicity study of dibutyltin. Presented at the Society of Toxicology's Meeting, Charlotte, NC.

El-Khodor, B.F., N. Edgar, A. Chen, M. Winberg, C. Hall, J. Heemskirk, C.M. Lutz, C.E. Garner, K. Ehman, J. Demeter, M. Gower, M.E.R. Butchbach, M.P. Heyes, and E. Leahy. 2006. Detailed phenotypic evaluation of several colonies of SMN2delta7 mouse models of spinal muscular atrophy for high-throughput drug candidate screening. Presented at the Annual Meeting of Families of Spinal Muscular Atrophy, Montréal, Quebec.

Ehman, K.D., and V.C. Moser. 2006. Evaluation of cognitive function in weanling rats: a review of methods suitable for chemical screening. Presented at the Annual Meeting of the Neurobehavioral Teratology Society, Tucson, AZ.

Ehman, K.D., K.L. McDaniel, P.M. Phillips, and V.C. Moser. 2005. Perinatal dimethyltin exposure alters spatial learning ability in adult rats. Presented at the Society of Toxicology's Meeting, New Orleans, LA, and at the Behavioral Toxicology Society's Meeting, St. Petersburg, FL.

Ehman, K.D., K.L. McDaniel, P.M. Phillips, and V.C. Moser. 2004. Behavioral consequences of perinatal monomethyltin exposure in rats. Presented at the Society of Toxicology's Meeting, Baltimore, MD, and at the Behavioral Toxicology Society's Meeting, Research Triangle Park, NC.

Ehman, K., S. Jenkins, S. Barone, and V. Moser. 2003. Behavioral and neurochemical consequences of developmental organotin exposure in rats. Presented at the Behavioral Toxicology Society's Meeting, Philadelphia, PA.

Ehman, K.D., and M.E. Scott. 2002. Response of female mice to nematode infection and dominance in choosing mates in a seminatural arena setting. Presented at the ICOPA 10 Meeting, Vancouver, British Columbia.

DesRosiers, S.A., M.E. Rau, M. Kavaliers, M. Zakikhani, and K.D. Ehman. 2002. A behavioural reassessment of the effects of infection with the nematode *Heligmosomoides polygyrus* on spatial learning in mice. Presented at the International Society of Behavioural Ecology's Meeting, Montréal, Quebec.

Ehman, K.D., and M.E. Scott. 2001. Parasitized male mice are unattractive mates. Presented at the Animal Behavior Society's Meeting, Corvallis, OR.

Ehman, K.D., O.K. Dare, and M.E. Scott. 2001. Effect of parasitic infection on female mate choice in CD-1 mice. Presented at the American Society of Parasitologist's Meeting, Albuquerque, NM.

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Ehman, K.D., and M.E. Scott. 2000. Urinary odour preferences of MHC congenic female mice. Presented at the Animal Behavior Society's Meeting, Atlanta, GA, and at the Canadian Society of Zoologist's Meeting, St. Andrews, New Brunswick.

DesRosiers, S.A., K.D. Ehman, and M.E. Rau. 2000. Parasitic infection and spatial learning in male mice. Presented at the Animal Behavior Society's Meeting, Atlanta, GA, and at the Canadian Society of Zoologist's Meeting, St. Andrews, New Brunswick.

Ehman, K.D., and M.J. Patrick. 1997. Nematode parasites of the eastern chipmunk, *Tamias striatus*, from southwestern Pennsylvania. Presented at the American Society of Parasitologist's Meeting, Nashville, TN, and at the Pennsylvania Academy of Science's Meeting, Malvern, PA.