

Curriculum Vitae

Name: Keith M. Erikson
Email: kmerikso@uncg.edu

updated 1/12

335 Stone Building
Department of Nutrition
University of North Carolina Greensboro
Greensboro, NC 27402
(336) 256-0327

Education:

Postdoctoral Research Fellow, Wake Forest University School of Medicine, 2001-2003
Ph.D. in Nutrition, The Pennsylvania State University, December 2000
M.S. in Nutrition, The Pennsylvania State University, May 1997
B.A. in Physical Education, Cedarville College, 1986

Employment:

Associate Professor, Dept. of Nutrition, University of North Carolina Greensboro, 2009-present.
Assistant Professor, Dept. of Nutrition, University of North Carolina Greensboro, 2003-2009.
Postdoctoral Research Associate, Dept. Physiology/Pharmacology, Wake Forest University School of Medicine, 2001-2003.
Lecturer, Dept. of Nutrition, University of North Carolina Greensboro, Fall 2000.

Journal Publications:

Cordova, F., Aguiar-Jr, A., Peres, T., Lopes, M., Goncalves, F., Remor, A., Lopes, S., Pilati, C., Latini, A., Prediger, R., Erikson, K., Aschner, M., Leal, R., (2012) In vivo manganese exposure modulates ERK, AKT and DARPP-32 in the Striatum of Developing Rats, and Impairs their Motor Function. PLoS One

Fordahl, S.C., Cooney, P.T., Qiu, Y., Xie, G, Jia, W., Erikson, K.M. (2012) Waterborne manganese exposure alters plasma, brain, and liver metabolites accompanied by changes in stereotypic behaviors. J. Neurotox and Teratol 34: 27-36.

Fitsanakis, V.A., Zhang, N., Avison, M.J., Erikson, K.M., Gore, J.C., Aschner, M. (2011) Changes in Dietary Iron Exacerbate Regional Brain Manganese Accumulation as Determined by Magnetic Resonance Imaging (MRI). Tox Sci 120(1): 146-153.

Fordahl, S.C., Anderson, J.G., Cooney, P.T., Weaver, T.L., Colyer, C.L., Erikson, K.M. (2010) Manganese exposure Inhibits the clearance of extracellular GABA and influences taurine homeostasis in the striatum of developing rats. Neurotoxicology 31: 639-646.

Williams, B.B., Kwakye, G.F., Wegrzynowicz, M., Li, D., Aschner, M., Erikson, K.M., Bowman, A.B. (2010) Altered manganese homeostasis and manganese toxicity in Huntington's Disease striatal cell model are not due to defects in iron transport system. Tox Sci 117:169-179.

Journal Publications:

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Yin, Z., Jiang, H., Lee, E. Ni, M., Erikson, K.M., Milatovic, D., Bowman, A., Aschner, M. (2010) Ferroportin is a manganese responsive protein that decreases manganese cytotoxicity and accumulation. *J. Neurochem* 112 (5):1190-1198.

Williams, B.B., Vadodaria, B.K., Anderson, J.G., Kwakye, G.F., Li, D., Aschner, M., Erikson, K.M., Bowman, A.B. (2010) Altered Manganese Homeostasis in Huntington's Disease. *J Neurochem* 112 (1):227-237.

Au, C., Benedetto, A., Anderson, J., Labrousse, A., Erikson, K., Ewbank, J.J., Aschner, M. (2009) SMF-1, SMF-2, SMF-3 DMT-1 orthologues regulate and are regulated differentially by manganese levels in *C. Elegans*. *PLoS One*. Nov 18;4(11):e7792.

Aschner, M., Erikson, K.M., Herrero Hernandez, E., Tjalkens, R. (2009) Manganese and its Role in Parkinson's disease: from Transport to Neuropathology. *NeuroMolecular Med*; 11:252-266.

Messer, J.G., Kilbarger, A.K., Erikson, K.M., Kipp, D.E. (2009) Iron overload alters iron-regulatory genes and proteins, down-regulates osteoblastic phenotype, and is associated with apoptosis in fetal rat calvaria cultures. *Bone* 45: 972-999.

Anderson, J.G., Fordahl, S.C., Cooney, P.T., Weaver, T.L., Colyer, C.L., and Erikson, K.M. (2009) Extracellular Norepinephrine, Norepinephrine Receptor and Transporter Protein and mRNA Levels Are Differentially Altered in the Developing Rat Brain Due to Dietary Iron Deficiency and Manganese Exposure. *Brain Res* 1281:1-14.

Fitsanakis, V.A., Thompson, K.N., Deery, S.E., Milatovic, D., Shihabi, Z.K, Erikson, K.M., Brown, R.W., Aschner, M. (2009) A chronic iron deficient/high-manganese diet in rodents results in increased brain oxidative stress and behavioral deficits in the morris water maze. *Neurotox Res* 15:167-178.

Carneiro, A.M., Airey, D.C., Thompson, B., Zhu, C.B., Lu, L., Chesler, E.J., Erikson, K.M., Blakely, R.D. (2009) Functional coding variation in recombinant inbred mouse lines reveals multiple serotonin transporter-associated phenotypes. *Proc Natl Acad Sci U.S.A.* 106:2047-2052.

Zhang, N., Fitsanakis, V.A., Erikson, K.M., Aschner, M., Avison, M.J., Gore, J.C. (2009) A Model for the Analysis of Competitive Relaxation Effects of Manganese and Iron *in Vivo*. *NMR in Biomedicine* 22:391-404.

Anderson, J.G., Fordahl, S.C., Cooney, P.T., Weaver, T.L., Colyer, C.L., and Erikson, K.M. (2008) Manganese exposure alters extracellular GABA, GABA receptor and transporter protein and mRNA levels in the developing rat brain. *Neurotoxicology* Nov;29(6):1044-53.

Erikson, K.M., Dorman, D.C., Lash, L.H., Aschner, M. (2008) Duration of airborne-manganese exposure in rhesus monkeys is associated with brain regional changes in biomarkers of neurotoxicity. *Neurotoxicology* 29:377-385.

Journal Publications:

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Fitsanakis, V.A., Zhang, N., Anderson, J.G., Erikson, K.M., Avison, M.J., Gore, J.C., Aschner, M. (2008) Measuring Brain Manganese and Iron Accumulation in Rats Following 14-weeks of Low-Dose Manganese Treatment Using Atomic Absorption Spectroscopy (AAS) and Magnetic Resonance Imaging (MRI). *Toxicol. Sci* 103:116-124.

Gellein, K., Flaten, T.P., Erikson, K.M., Aschner, M., Syversen, T. (2008) Leaching of trace elements from biological tissue by formalin fixation. *Biol Trace Elem Res.* 121:221-225.

Erikson, K.M., Dorman, D.C., Lash, L.H., Aschner, M. (2007) Manganese Inhalation by Rhesus Monkeys is Associated with Brain Regional Changes in Biomarkers of Neurotoxicity. *Tox Sci.* 97:459-466.

Erikson, K.M., Thompson, K., Aschner, J., and Aschner, M. (2007) Manganese Neurotoxicity: A Focus on the Neonate. *Pharmacol and Therap.* 113:369-377.

Anderson, J.G., Cooney, P.T., Erikson, K.M. (2007) Brain Manganese Accumulation is Inversely Related to GABA Uptake in Male and Female Rats. *Toxicol. Sci.*95: 188-195.

Anderson, J.G., Cooney, P.T., Erikson, K.M. (2007) Inhibition of DAT function attenuates manganese accumulation in the globus pallidus *Environ Tox and Pharmacol* 23:179-184.

Fitsanakis, V.A., Erikson, K.M., Garcia, S.J., Evje, L., Syversen, T., Aschner, M. (2006) Brain Accumulation of depleted uranium in rats following 3 or 6 month treatment with implanted depleted uranium pellets. *Biol Trace Elem Res* 111: 185-197.

Taylor, M.D., Erikson, K.M., Dobson, A.W., Fitsanakis, V., Dorman, D.C., and Aschner, M. (2006) Effects of Inhaled Manganese on Biomarkers of Oxidative Stress in the Rat Brain. *Neurotoxicology* 27:788-797

Erikson, K.M., Dorman, D.C., Fitsanakis, V., Lash, L.H., Aschner, M. (2006) Alterations of oxidative stress biomarkers due to *In utero* and neonatal exposures of airborne manganese. *Biol Trace Elem Res* 111:199-215

Dobson, A.W., Lack, A.K., Erikson, K.M. and Aschner, M. (2006) Depleted uranium is not toxic to rat brain endothelial (RBE4) cells. *Biol Trace Elem Res* 110(1): 61-72.

Fitsanakis, V.A., Au, Catherine, Erikson, K.M., Aschner, M. (2006) The effects of manganese on glutamate, γ -aminobutyric acid, and dopamine regulation. *Neurochem. Intl.* 48(6-7): 426-433.

Erikson, K.M., and Aschner, M. (2006) Increased manganese uptake by primary astrocyte cultures with altered iron status is mediated primarily by divalent metal transporter. *Neurotoxicology* 27:125-130.

Erikson, K.M., John, C.E., Jones, S.R., Aschner, M. (2005) Manganese accumulation in striatum of mice exposed to toxic doses is dependent upon a functional dopamine transporter. *Environ Toxicol Pharmacol.* 20:390-394.

Journal Publications:

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Erikson, K.M., Dorman, D.C., Lash, L., Aschner, M. (2005) Persistent alterations in biomarkers of oxidative stress due to combined in utero and neonatal manganese inhalation. *Biol Trace Elem Res.* 104(2):151-164.

Erikson, K.M., Syversen, T., Aschner, J.L., and Aschner M. (2005) Interactions between excessive manganese-exposure and dietary iron-deficiency in neurodegeneration. *Environ. Toxicol. Pharmacol.* 19:415-421.

Aschner, M., Erikson, K.M., and Dorman, D.C. (2005) A Review of Manganese Toxicokinetics. *Critical Reviews in Toxicology.* 35:1-32.

Erikson, K.M., Dobson, A.W., Dorman, D.C., and Aschner, M. (2004) Does Manganese Induce Oxidative Stress in the Rat Brain? *Science and the Total Environment.* 334-335:409-416.

Erikson, K.M., Dorman, D.C., Lash, L.H., Dobson, A.W., and Aschner, M. (2004) Airborne manganese exposure differentially affects endpoints of oxidative stress in an age and sex-dependent manner *J Biol Trace Elem.* 100:49-62.

Erikson, K.M., Syversen, T., Steinnes, E., and Aschner, M. (2004) Globus Pallidus: A target brain region for divalent metal accumulation due to dietary iron deficiency. *J Nutr Biochem* 15:335-341.

Dobson, A.W., Erikson, K.M., and Aschner, M. (2004) Manganese Neurotoxicity. *Ann NYAS,* 1012:115-129.

Dobson, A.W., Weber, S., Dorman, D.C., Lash, L.K., Erikson, K.M., and Aschner, M. (2003) Oxidative Stress is Induced in the Rat Brain Following Repeated Inhalation Exposure to Manganese Sulfate. *Biol Trace Elem Res* 93(1-3) 113-126.

Erikson, K.M. and Aschner, M. (2003) Manganese neurotoxicity and GABA/glutamate interactions. *Neurochem Intl* 43(4-5):475-480.

Beard, J.L., Erikson, K.M., and Jones, B.C. (2003) Lactational iron deficiency results in irreversible changes in dopamine metabolism in the rat. *J Nutr* 133(4):1174-1179.

Erikson, K.M. and Aschner, M. (2002) Manganese causes differential regulation of glutamate transporter (GLAST), taurine transporter, and metallothionein in cultured rat astrocytes. *Neurotoxicology* 23(4-5): 595-602.

Erikson, K.M., Suber, R.L., and Aschner, M. (2002) Glutamate/aspartate transporter (GLAST), taurine transporter and metallothionein mRNA levels are differentially altered in astrocytes exposed to manganese chloride, manganese phosphate or manganese sulfate. *Neurotoxicology* 23(3): 281-288.

Weber, S., Dorman, D.C., Lash, L.H., Erikson, K., Vrana, K.E., and Aschner, M. (2002) Effects of Manganese on the developing rat brain: oxidative-stress related endpoints. *Neurotoxicology* 23(2): 169-175.

Aschner, M., Shanker, G., Erikson K., Yang, J., and Mutkus, L.A. (2002) The uptake of manganese in brain endothelial cultures. *Neurotoxicology* 23(2): 165-168.

Journal Publications:

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Beard, J.L., Erikson, K.M., and Jones, B.C. (2002) Neurobehavioral analysis of developmental iron deficiency in rats. *Behav Brain Res* 134: 517-524.

Erikson, K.M, Shihabi, Z.K., Aschner, J.L., Aschner, M. (2002) Manganese accumulates in iron deficient rat brain regions in a heterogeneous fashion and is associated with neurochemical alterations. *Biol Trace Elem Res* 87(1-3): 143-156.

Gerhard, G.S., Kaufmann, E.J., Wang, X., Erikson, K.M., Abraham, J., Grundy, M., Beard, J.L., and Chorney, M.J. (2002) Genetic differences in hepatic lipid peroxidation potential and iron levels in mice. *Mech. of Age. and Develop.* 123: 167-176.

Erikson, K.M., Jones, B.C., Hess, E.J. and Beard, J.L. (2001) Altered functioning of dopamine D₁ and D₂ receptors in brains of iron deficient rats. *Pharmacol. Biochem. Behav.* 69:409-18.

Erikson, K.M., Jones, B.C. and Beard, J.L. (2000) Iron deficiency alters dopamine transporter functioning in rat striatum. *J. Nutr.* 130(11):2831-2837.

Rosales, F.J., Jing-Tsz, J., Pinero, D.J., Erikson, K.M., Beard, J.L. and Ross, A.C. (1999) Iron Deficiency in young rats alters the distribution of Vitamin A between plasma and liver, and between retinol and retinyl esters. *J. Nutr.* 129:1223-1228.

Erikson, K.M., Beard, J.L. and Connor, J.R. (1998) Distribution of brain iron, ferritin and transferrin in the 28 day old piglet. *J. Nutr. Biochem.* 9:276-284.

Nelson, C.L., Erikson, K.M., Pinero, D.J. and Beard J.L. (1997) In vivo dopamine metabolism in iron deficiency anemia. *J. Nutr.* 127:2282-2288.

Erikson, K.M., Pinero, D.J., Connor, J.R. and Beard, J.L. (1997) Regional brain iron, ferritin and transferrin concentrations during iron deficiency and iron repletion in developing rats. *J. Nutr.* 127:2030-2038.

Book Chapters

Fordahl, S.C. and Erikson, K.M. (2011) The Neurochemical Consequences of Manganese Neurotoxicity. *Metal Ions and Stroke*. Ed. Zhang, J. and Li, Y. Springer Press

Erikson, K.M. (2010). You are what you eat. *The Dole Nutrition Handbook What to eat and how to live for a longer, healthier life*. The Dole Nutrition Institute.

Anderson, J.G. and Erikson, K.M. (2009) The importance of trace elements for neurological functioning. *The Handbook of Behavior, Diet and Nutrition*. Ed. Victor R. Preedy. Springer Press

Bowman, A.B., Erikson, K.M., and Aschner, M. (2008) Manganese: The two faces of essentiality and toxicity. *Metals and Neurodegeneration*. Ed. Shile Huang ResearchSignpost.

Grants and Awards

Grants Received

Title	Sponsor	Funding Period	Amount	Role
Neurobiological dysfunction due to dietary iron/manganese imbalance	UNCG New Faculty	04/2004-07/2005	\$5,000	P.I.
Neurobiological dysfunction due to dietary iron/manganese imbalance	UNCG Summer Excell.	06/2004-08/2004	\$4,000	P.I.
Neurotoxicology of dietary iron/manganese imbalance	NIEHS DHHS-R15 ES01379 1-01	01/2005-12/2007	\$209,500	P.I.
Multi-detection Microplate Reader to Enhance Research Competitiveness in Nutrition	USDA	07/2005-07/2006	\$18,743	Co-PD
Mechanisms of Manganese Neurotoxicity (Michael Aschner, P.I., Vanderbilt University)	NIEHS DHHS	12/06-11/11	N/A	Consult.
Mechanisms of Manganese Neurotoxicity: Link between oxidative stress and glutathione depletion	NIEHS DHHS-R15 PA-06-042	12/07-11/10	\$209,500	P.I.

Honors and Awards

- Mead Johnson Award, American Society for Nutrition, 2010
- Student nominated Honorary member of University Marshals (2010)
- International Life Science Institute Future Leader Finalist, 2007
- UNCG, Research Excellence Award (Junior Faculty), 2007
- UNCG, School of Human Environmental Science Early Career Research Excellence Award, 2006

Primary Collaborations:

- Dr. Michael Aschner at Vanderbilt University:

We are currently measuring the manganese levels in *C. elegans* that have had different metal transporters knocked out. Dr. Aschner has a funded RO1 which employs this worm model and thus I am a consultant on this grant.

- Dr. Brad Racette at Washington University in St. Louis Medical School

Dr. Racette is currently collecting specimens from patients with liver disease and we are measuring serum manganese and iron concentrations. Dr. Racette is monitoring 856 welders for neurological signs and metal imbalances. He has enlisted us to measure the serum manganese and iron in these patients.

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- Dr. Christa Colyer at Wake Forest University

Dr. Colyer has expertise in capillary electrophoresis (CE) and is analyzing the cerebrospinal fluid we are collecting in our experiments for amino acid neurotransmitters (Glutamate, GABA). CE is now regarded as the gold standard in vivo measurement for these neurotransmitters.

- Dr. Aaron Bowman at Vanderbilt University:

Since November 2007, we have worked on a collaborative project investigating the mechanism(s) involved in the altered metal metabolism associated with Huntington's Disease. In particular, we have been focusing on our novel finding of manganese deficiency inherent in animals and cells that express the mutant HD protein.

Teaching Experience

Spring 2012	Instructor, Antioxidants and Bioactive Components of Food (NTR-627)
Fall 2011	Instructor, Introductory Nutrition (NTR-213)
Spring 2011	Instructor, Antioxidants and Bioactive Components of Food (NTR-627)
Fall 2009	Instructor, Antioxidants and Bioactive Components of Food (NTR-627) Instructor, Introductory Nutrition (NTR-213) Instructor, Seminar in Nutrition (NTR-609)
Spring 2009	Instructor, Introductory Nutrition (NTR-213)
Fall 2008	Instructor, Antioxidants and Bioactive Components of Food (NTR-627)
Spring 2008	Instructor, Introductory Nutrition (NTR-213) Instructor, Seminar in Nutrition (NTR-609)
Fall 2007	Instructor, Antioxidants and Bioactive Components of Food (NTR-627)
Spring 2007	Instructor, Antioxidants and Bioactive Components of Food (NTR-627)
Fall 2006	Instructor, Nutrition: Facts and Fantasies (NTR-213)
Spring 2006	Instructor, Antioxidants and Bioactive Components of Food (NTR-627) Instructor, Seminar in Nutrition (NTR-609)
Fall 2005	Instructor, Nutrition: Facts and Fantasies (NTR-213)
Spring 2005	Instructor, Antioxidants and Bioactive Components of Food (NTR-627)
Fall 2004	Instructor, Nutrition: Facts and Fantasies (NTR-213) Instructor, Seminar in Nutrition (NTR-609)
Spring 2004	Instructor, Nutrition: Facts and Fantasies (NTR-213)

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- Fall 2003 Instructor, Seminar in Nutrition (NTR-609)
 Co-Instructor, Nutrient Metabolism (NTR-625)
- Fall 2000 Instructor, Introduction to Nutrition (NFS-213),
 Co-instructor, Nutrient Metabolism (NFS-625)
 Department of Nutrition and Foodservice Systems,

Committee memberships:

University

- GNS ad-hoc recertification subcommittee (2009-2010)
- Institutional Animal Care and Use Committee (2003-2009)
- Russ Harter Award committee (Judge Abstracts and then papers submitted by Undergrad researchers) (2004-2008)
- Search Committee for Nanotechnology Center Director (2005-2006)

School

- HES Advisory Committee on Research (2009-present)

Department

- Director of Graduate Studies (2009-present)
- Bench Research Committee (2003-present)
- NTR 213 Committee (develop and modify the introductory nutrition course) (2003-present)
- ASN Notes (2003-2009)
- Graduate Committee (2004-present)
- Faculty Search committee (2005 & 2006)

Graduate Students

- Joel Anderson PhD graduated May 2009, currently a post-doctoral fellow at the Complementary Medicine Center at UVA medical center.
- Steven Fordahl MS graduated December 2009-currently my PhD student-I serve as his research mentor and chair of his thesis.
- Shatha Farah MS graduated August 2011- currently a research technician at Texas Tech
- I serve on the committee of four doctoral students and one master of science student in the Department of Nutrition.
- I serve on the committee of one doctoral student in the Department of Kinesiology.

Professional Activities:

Editorial Board Member of the Journal of Neurotoxicology (January 2011-December 2013)
Editorial Board Member of the World Journal of Pharmacology (2011-2015)
Editorial Board Member of the ISRN Toxicology Journal

Reviewer:

Journals:

Brain Research

Biological Trace Element Research

Diabetes Research and Clinical Practice

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Environmental Research
Environmental Toxicology and Pharmacology
Future Neurology
Inhalation Toxicology
InVitro Toxicology
Journal of Toxicology and Environmental Health
Journal of Neurochemistry
Neurochemical Research
Neuroscience
Neuroscience Letters
Neurotoxicology
Neurotoxicology and Teratology
Nutrition and Neuroscience
Pharmacological Reports
Physiology and Behavior
Toxicology Letters
Toxicological Sciences
Toxicology and Applied Pharmacology
Toxicology and Environmental Health

Reviewer:

Grants:

NIH ARRA AREA special emphasis panel 08 (2009)
Center for Molecular Toxicology Pilot Study Grant, Vanderbilt University (2007)
Canada Foundation for Innovation Grant (2004)

Professional Memberships

Society of Toxicology
American Society for Nutrition

Invited Presentations:

Society of Toxicology, Washington, D.C. March 2011. Waterborne manganese exposure alters stereotypic behaviors and plasma metabolites in developing rats. (My graduate student, Steve Fordahl presented these data).

North Carolina A&T State University, Biology Departmental Colloquium, November 2010. Neurochemical Alterations Associated with Manganese Neurotoxicity.

Experimental Biology, Anaheim, CA April 2010. Effect of manganese exposure and antioxidant therapy on oxidative stress in the rat brain. (My graduate student, Steve Fordahl presented these data).

Presentations:

Experimental Biology, New Orleans, LA April 2009. Manganese exposure and iron deficiency result in home cage behavior alterations in the developing rat (My graduate student, Joel Anderson presented this poster).

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Experimental Biology, New Orleans, LA April 2009. The effect of manganese exposure on endogenous markers of oxidative stress in astrocytes (My graduate student, Steve Fordahl presented this poster).

North Carolina A&T State University, Nutrition Departmental Colloquium, October 2008. Nutritional Implications of Manganese Neurotoxicity.

Society of Toxicology, Seattle, WA March 2008. Manganese exposure alters GABA and norepinephrine transporter protein expression in the developing rat brain (My graduate Student presented this poster).

Hamner Institutes of Health, Durham, NC July 2007. Neurobiological and nutritional implications of manganese toxicity.

Experimental Biology, Washington, DC, April 2007. Iron deficiency and manganese toxicity are associated with differential effects on neurotransmitter uptake. (My graduate student presented this poster).

Society of Toxicology, San Diego, March 2006. Determination of Brain Manganese Accumulation using Magnetic Resonance Imaging and Atomic Absorption Spectroscopy.

Society of Toxicology, San Diego, March 2006. Effects of Manganese Chloride on 3 isoforms of Divalent Metal Transporter Knockouts in *C. Elegans*.

Society of Toxicology, San Diego, March 2006. Effect of Dopamine Transporter Blockade on Dietary Iron/Manganese Interactions in the Developing Brain. (My graduate Student Joel Anderson presented this poster)

Society of Toxicology, San Diego, March 2006. Dietary iron modulates manganese neurotoxicity. Coauthored with Dr. Michael Aschner and presented in the symposium "Manganese Neurotoxicity: From Worms to Man"

International Neurotoxicology Conference, Research Triangle Park, NC, September 2005. Use of MRI to determine the distribution of brain Mn in male Sprague-dawley rats.

Experimental Biology, San Diego, CA April 2005. Brain manganese accumulation due to toxicity is mediated by the dopamine transporter.

Society of Toxicology, New Orleans, LA March 2005. Determination of depleted uranium (DU) in rats following 6-month exposure to surgically implanted DU pellets.

Seminar Speaker, Biology Dept., UNCG, Feb. 2004. Neurochemical and Neurotoxicological implications of iron deficiency.

Presentations:

Seminar Speaker, Dept. Natural Sciences, Messiah College, Grantham, PA. April, 2003. Brain manganese accumulation due to iron deficiency causes neurochemical alterations.

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Society of Toxicology, Salt Lake City, UT, March 2003. Increased manganese uptake in iron deprived and iron overloaded primary astrocyte cultures is due to increased divalent metal transporter. K.M. Erikson, A.W. Dobson, M. Aschner.

Seminar Speaker, Dept. Physiology/Pharmacology, Wake Forest University School of Medicine, February 2003. Neurochemical alterations due to Iron and Manganese interactions in the brain.

Society for Neuroscience, Orlando, FL, November, 2002. Irreversible effects of early iron-deficiency on brain dopamine systems in the rat. B. C. Jones, K. M. Erikson, J. L. Beard.

Society of Toxicology, Nashville, TN, March 2002. Iron deficiency causes region-specific manganese accumulation in developing rat brains. K. M. Erikson, M. Aschner.

Experimental Biology, Orlando, FL, April 2001. Iron repletion does not normalize brain dopamine metabolism. J. Beard, K. Erikson, B. Jones, Q. Zhang.

Society for Neuroscience, New Orleans, LA November, 2000. Early iron deficiency alters neurochemical and behavioral sensitivity to cocaine in rats. K.M. Erikson, B.C. Jones and J.L. Beard.

Experimental Biology, San Diego, CA, April 2000. Iron deficiency alters dopamine metabolism in rat striatum by decreasing dopamine transporter density. K.M. Erikson, B.C. Jones and J.L. Beard.

Colloquium speaker, Graduate Program in Nutrition, The Pennsylvania State University, November, 1999. Entitled: Iron Deficiency alters rat brain dopamine metabolism.

Experimental Biology, Washington DC, April 1999. Regional Differences in Rat Brain Dopamine Receptor Functioning Due to Iron Deficiency. Q. Zhang, K.M. Erikson and J.L. Beard.

Experimental Biology, Washington DC, April 1999. Dopamine Transporter Functioning is Altered in Rat Striatum Due to Iron Deficiency. K.M. Erikson, Q. Zhang and J.L. Beard.

Experimental Biology, San Francisco, CA April 1998. Tissue Transferrin Receptor, Transferrin and Ferritin ELISA Assays to Assess Levels in Iron Deficient Anemic Rats. N.Q. Li, D.J. Pinero, K. Erikson, J.R. Connor and J.L. Beard.

Experimental Biology, San Francisco, CA April 1998. Regional Brain Iron, Transferrin Receptor and Transferrin Levels in Iron Deficient Anemic Rats. J.L. Beard, N.Q. Li, D.J. Pinero, K. Erikson and J.R. Connor.

Experimental Biology, New Orleans, LA April, 1997. Regional Brain Iron, Ferritin and Transferrin Levels in Iron Deficient Anemic Piglets. K.M. Erikson and J.L. Beard

Presentations:

Experimental Biology, Washington, DC April, 1996. Brain Iron, Ferritin, and Transferrin Levels in Iron Repleted Rats. K.M. Erikson and J.L. Beard.

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Experimental Biology, Washington, DC April, 1996. Dopamine Reuptake in Caudate Putamen in Anemia Assessed by *in vivo* Microdialysis. C.L. Nelson, K.M. Erikson and J.L. Beard.

The American Dietetic Association, 77th Annual Meeting, Orlando, FL October, 1994. Relationship of Upper Arm Anthropometry to Body Composition in Female Athletes. K.M. Erikson, K. Witt, and D.L. Miller.