Michael G. Narotsky

Education

- B.A., State University of New York, Buffalo, NY; Biology and Psychology, 1978.
- Ph.D., North Carolina State University, College of Veterinary Medicine, Raleigh, NC; Veterinary Medical Science, 1997.

Professional Experience

- 1987-1994: Senior Scientist, ManTech Environmental Technology, Inc., Contractor to EPA.
- 1995-present: Research Toxicologist, EPA.

Research Interests

- Developmental toxicity: Mixtures, structure-activity relationships, and axial skeletal development.
- Endocrinology of pregnancy and parturition.

Reproductive toxicity testing.

Professional Activities

- Member, EPA Drinking Water Implementation Team. 2005-present.
- Expert Panelist, Workshop on Optimizing Design and Interpretation of Epidemiologic Studies to Consider Alternative Disinfectants of Drinking Water, Raleigh, NC. 2005.
- Member, Education Committee, Teratology Society, 2001-2004. Chair, 2003-2004.
- Expert Panelist, Health Canada Workshop to Identify Critical Endpoints for Assessment of Health Risks Related to Trihalomethanes in Drinking Water, Ottawa, Ontario, Canada. 2002.
- Participant, EPA Office of Water Workshop on Risk Communication Issues Associated with Drinking Water Disinfection.
- Reviewer, developmental and reproductive toxicity studies submitted to EPA under the Fuel and Fuel Additives test rule.
- Reviewer, Integrated Risk Information System documents on brominated trihalomethanes.
- Auditor, Technical Systems Review of work on the Hershberger Assay.
- Member, Steering Committee, Cooperative Agreement to Conduct a Reproductive Toxicity Test of bromochloroacetic acid.

Invited Lectures/Symposia

- Workshop on Optimizing the Design and Interpretation of Epidemiologic Studies to Consider Alternative Disinfectants of Drinking Water, Raleigh, NC: Overview of female reproductive effects. 2005.
- Symposium on the Epidemiology of Miscarriage, Teratology Society: Animal models for studying miscarriage—illustration with study of drinking water disinfection by-products. 2004.

Selected Publications

Cooper RL, Laws SC, Das PC, Narotsky MG, Goldman JM, Tyrey EL, Stoker TE. 2007. Atrazine and reproductive function: Mode and mechanism of action studies. Birth Defects Res B Dev Reprod Toxicol. 80:98-112. Abstract

Bielmeier SR, Murr AE, Best DS, Harrison RA, Pegram RA, Goldman JM, Narotsky MG. 2007. Effects of bromodichloromethane on *ex vivo* and *in vitro* luteal function and bromodichlromethane tissue dosimetry in the pregnant F344 rat. Toxicol In Vitro. 21:919-28. Abstract

Goetz AK, Ren H, Schmid JE, Blystone CR, Thillainadarajah I, Best DS, Nichols HP, Strader LF, Wolf DC, Narotsky MG, Rockett JC, Dix DJ. 2007. Disruption of testosterone homeostasis as a mode of action for the reproductive toxicity of triazole fungicides in the male rat. Toxicol Sci. 95:227-39. Abstract

Goetz AK, Bao W, Ren H, Schmid JE, Tully DB, Wood C, Rockett JC, Narotsky MG, Sun G, Lambert GR, Thai SF, Wolf DC, Nesnow S, Dix DJ. 2006. Gene expression profiling in the liver of CD-1 mice to characterize the hepatotoxicity of triazole fungicides. Toxicol Appl Pharmacol. 215:274-84. Abstract

Lau C, Thibodeaux JR, Hanson R, Narotsky MG, Rogers JM, Lindstrom AB, Strynar MJ. 2006. Effects of perfluorooctanoic acid exposure during pregnancy in the mouse. Toxicol Sci. 90:510-519. Abstract

Rockett JC, Narotsky MG, Thompson K, Thillainadarajah I, Blystone C, Goetz A, Ren H, Best DS, Murrell R, Nichols HP, Schmid JE, Wolf DC, Dix DJ. 2006. Effect of conazole fungicides on reproductive development in the female rat. Reprod Toxicol. 22:647-58. Abstract

Tully DB, Bao W, Goetz A, Blystone C, Ren H, Schmid JE, Strader LF, Wood CR, Best DS, Narotsky MG, Wolf DC, Rockett JC, Dix DJ. 2006. Gene expression profiling in liver and testis of rats to characterize the toxicity of triazole fungicides. Toxicol Appl Pharmacol. 215:260-73. Abstract

Abbott BD, Best DS, Narotsky MG. 2005. Teratogenic effects of retinoic acid are modulated in mice lacking expression of epidermal growth factor and transforming growth factor-alpha. Birth Defects Res A Clin Mol Teratol. 73:204-17. Abstract

Cooper RL, Laws SC, Narotsky MG, Goldman JM, Stoker TE. 2004. Hormonal control of ovarian function following chlorotriazine exposure: Effect on reproductive function and mammary gland tumor development. In: *Ovarian Toxicology*. Ed.: P. Hoyer, CRC Press, Boca Raton, FL.

Narotsky MG, Wery N, Hamby BT, Best DS, Pacico N, Picard JJ, Gofflot F, Kavlock RJ. 2004. Effects of boric acid on hox gene expression and the axial skeleton in the developing rat. In: *The Skeleton: Biochemical, Genetic and Molecular Interactions in Development and Homeostasis*. Ed.: E.J. Massaro and J.M. Rogers, Humana Press, Totowa, NJ.

Chen J, Douglas GC, Thirkill TL, Lohstroh PN, Bielmeier SR, Narotsky MG, Best DS, Harrison RA, Natarajan K, Pegram RA, Overstreet JW, Lasley BL. 2003. Effect of bromodichloromethane on chorionic gonadotrophin secretion by human placental trophoblast cultures. Toxicol Sci. 76:75-82. Abstract

Narotsky, M.G. and Kavlock, R.J. (2003). In vivo assessment of prenatal developmental toxicity in rodents. In: Current Protocols in Toxicology, Supplement 16. Eds:M. Maines, L. Costa, D. Riid, and S. Sassa, John Wiley & Sons, Inc., Hoboken, NJ.

Wery N, Narotsky MG, Pacico N, Kavlock RJ, Picard JJ, Gofflot F. 2003. Defects in cervical vertebrae in boric acid-exposed rat embryos are associated with anterior shifts of HOX gene expression domains. Birth Defects Res A Clin Mol Teratol. 67:59-67. Abstract

Lau C, Narotsky MG, Lui D, Best D, Setzer RW, Mann PC, Wubah JA, Knudsen TB. 2002. Exposure-disease continuum for 2-chloro-2'-deoxyadenosine (2-CDA), a prototype teratogen: Induction of lumbar hernia in the rat and species comparison for the teratogenic responses. Teratology. 66:6-18. Abstract