

Gary Lewis Kimmel, Ph.D.
Senior Managing Scientist

Professional Profile

Dr. Gary L. Kimmel is a Senior Managing Scientist in Exponent's Health Sciences Center for Toxicology and Mechanistic Biology. He has over 35 years experience in reproductive and developmental toxicology, children's environmental health, and risk assessment, working on projects at the state, national, and international level. From 1984 to 2004, Dr. Kimmel was a lead scientist in the National Center for Environmental Assessment at the U.S. Environmental Protection Agency. Dr. Kimmel's laboratory research has focused on the causes and mechanisms of developmental toxicity, especially as it relates to prenatal effects of environmental exposures. His background in the area of developing and implementing Agency guidelines in risk assessment is extensive. In the area of children's risk assessment, Dr. Kimmel's experience ranges from the initial development and revision of the Agency's guidelines on developmental toxicity to participation in national and international committees and programs on children's environmental health. In the general area of risk assessment, he co-chaired the U.S. EPA's task force on developing a framework for human health risk assessment and was involved in various efforts to harmonize approaches for cancer and noncancer risk assessment.

Dr. Kimmel was instrumental in the implementation of these guidelines through the development of risk assessment training programs and has considerable experience in applying risk assessment methodology. He chaired the U.S. EPA's Risk Training Committee, oversaw the preparation of training materials, and served as a facilitator in risk assessment and reproductive and developmental toxicology for over 15 years. He has presented risk assessment courses and lectures in a wide variety of national and international venues including India, Hong Kong, Eastern Europe, and Canada. At EPA, Dr. Kimmel was directly involved in a variety of chemical-specific risk assessments, and served as chemical manager or team lead on several, including ethylene oxide, dioxin and disinfection by-products.

Since his retirement from EPA in 2004, Dr. Kimmel has continued to work with various organizations on issues of reproductive and developmental toxicity and children's health, including the World Health Organization. Prior to joining the U.S. EPA, Dr. Kimmel was a branch chief and developmental toxicologist with the National Center for Toxicological Research, U.S. Food and Drug Administration.

Academic Credentials and Professional Honors

Postdoctoral Fellow, NIH Steroid Biochemistry Program, Worcester Foundation for Experimental Biology, 1972-1973
Ph.D., Physiology, University of Cincinnati, 1972
M.S., Physiology, University of Cincinnati, 1969
A.B., Zoology, Miami University, 1967

Publications

Scialli et al. Teratology Society Public Affairs Committee. Position Paper: Maternal obesity and pregnancy. *Birth Defects Research (Part A)* 2006; 76:73–77.

Kimmel CA, Kimmel GL, Euling SY. Developmental and reproductive toxicity risk assessment for environmental agents. In: *Developmental and Reproductive Toxicology, a Practical Approach*. Hood RD (ed), CRC Press, Boca Raton, FL, 2006.

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Kimmel GL. Invited perspective: In vitro testing in developmental toxicity risk assessment. *Teratology* 1998; 58:25–26.

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Kimmel GL, Kimmel CA, Francis EZ. Implications of the consensus workshop on the evaluation of maternal and developmental toxicity. *Teratogen Carcinogen Mutagen* 1987; 7:329–338.

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Kimmel CA, Kimmel GL, White CG, Grafton TF, Young JF, Nelson CJ. Blood flow changes in the pregnant rat in response to caffeine and associated conceptual development. *Fund Appl Toxicol* 1984; 4:240–247

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Kimmel, GL, Harmon JR, Slikker Jr W. Characterization of estrogen binding in uterine cytosol from the fetal rhesus monkey. *Teratogen Carcinogen Mutagen* 1983; 4:355–365.

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Kimmel GL, Smith K, Kochhar DM, Pratt RM. Overview of in vitro teratogenicity testing: Aspects of validation and application to screening. *Teratogen Carcinogen Mutagen* 1982; 2:221–229.

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Kimmel GL, Harmon JR. Characteristics of estrogen binding in uterine cytosol during the perinatal period in the rat. *J Steroid Biochem* 1980; 12:73–75.

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Kimmel GL, Moulton BC, Leavitt WW. Uptake and retention of (3 H) Oestradiol By Myometrial and Deciduomal tissue in the pseudopregnant rat. *J Endocrinol* 1973; 56:335–336.

Leavitt WW, Kimmel GL, Friend JP. Steroid hormone uptake by anterior pituitary cell suspensions. *Endocrinology* 1973 Jan; 92(1):94–103.

Prior Experience

Visiting Scientist, U.S. FDA, Center for Devices and Radiological Health, 2004–2007

Independent Consultant, 2004–2007

Toxicologist, U.S. EPA, National Center for Environmental Assessment (ORD), 1984–2004

Developmental Toxicologist, US FDA, National Center for Toxicological Research, 1977–1984

Biologist, Research Triangle Institute, 1973–1977

Postdoctoral Fellow, Steroid Biochemistry Program, Worcester Foundation for Experimental Biology, 1972–1973

Academic Appointments

- Adjunct Professor, Program in Toxicology, University of Maryland at Baltimore, Baltimore, Maryland, 1988–2001
- Technical Advisor, NIH grant (CA48061), Biostatistical problems in carcinogenicity and teratology. Principal Investigator: Louise Ryan, Ph.D., Department of Biostatistics, Harvard School of Public Health; Boston MA, 1999
- Adjunct, University of Arkansas Medical School, Dept of Pharmacology/Toxicology, Little Rock, Arkansas, 1983–1989

Professional Affiliations

- Teratology Society
- Mid Atlantic Reproduction and Teratology Association
- European Teratology Society
- Midwest Teratology Association