

Jane D. McCarty, DABT
Managing Regulatory Toxicologist

Professional Profile

Ms. Jane D. McCarty is a Managing Regulatory Toxicologist in Exponent's Health Sciences Center for Chemical Regulation and Food Safety, and is a Diplomate of the American Board of Toxicology (DABT). She has more than 25 years experience in domestic and international pesticide and industrial chemical toxicology, which she applies to an array of situations.

Ms. McCarty specializes in the design, conduct, and interpretation of toxicology studies ranging from acute to chronic, developmental, reproductive, neurotoxicity, and developmental neurotoxicity. She develops and manages toxicology programs, including testing and monitoring for submissions to the U.S. EPA, EU, and Japan, for new pesticides and other programs to support continued registration of existing products. The studies that she oversees are conducted in accordance with the Good Laboratory Practice Standards (GLPs) requirements of the various regions. Ms. McCarty conducts scientific reviews of data, develops new testing strategies, and prepares position papers to address regulatory questions about interpretation of toxicological data. She works closely with the risk assessors to determine the point of departure for risk assessments. Ms. McCarty has also conducted risk assessments for routine and unusual exposure scenarios. She helps clients respond to toxicology issues and to find solutions to the challenges at hand.

Academic Credentials and Professional Honors

M.S., Environmental Science, Drexel University, 1983

M.S., Ecology, Rutgers University, 1973

B.S., Biology, Tufts University, 1971

Recipient, Highest Technical Achievement Award for support of non-carcinogen classification of new active ingredient in Brazil – FMC Corporation, 2005

Recipient, Highest Achievement Award for contribution to the registration submission for a new active ingredient in the U.S. – FMC Corporation, 2003

Recipient, Highest Technical Achievement Award for support in the development decision for a new active ingredient in the U.S. – FMC Corporation, 2000

Recipient, Robert N. Burt Award for Innovation for development of toxicology tests for newly developed chemicals – FMC Corporation, 1999

Recipient, Chairman's Award for contributions toward establishment of FMC in the pest control business – FMC Corporation, 1992

Licenses and Certifications

Diplomate of the American Board of Toxicology, 1996

Publications

Bu W, Myers N, McCarty JD, O'Neill T, Holler S, Stetson PL, Sved DW. Simultaneous determination of six urinary porphyrins using liquid chromatography—Tandem mass spectrometry. *J Chromatogr B* 2003; 783:411–423.

McCarty JD, Carter SP, Fletcher MJ, Reape MJ. Study of lithium absorption by users of spas treated with lithium ion. *Human Exp Toxicol* 1994; 13:315–319.

Published Abstracts

McCarty JD, Hoberman AM. Repeated dose twenty-one day dermal toxicity study with carbofuran, a carbamate insecticide. Abstract #270. *The Toxicologist*, 47th Annual SOT Meeting, 2008.

Gelis C, Le Bras E, Magna L, McCarty JD, Duchene P. *In vitro* absorption of a granular carbofuran formulation applied to rat and human skin. Poster/Abstract presented at the Perspectives in Percutaneous Penetration Meeting in La Grande Motte, France, 2006.

Gelis C, Le Bras E, Magnan L, McCarty JD, Sole C, Duchene P. Dermal absorption study on rat and human skin of an agrochemical product using non-radiolabeled molecule. Poster/Abstract at the IUPAC International Congress of Pesticide Chemistry Meeting in Kobe, Japan, 2006.

McCarty JD, Weiner ML, Freeman C, Nuber D. A dietary teratology study of a drug excipient, Avicel RCN-15 in Sprague-Dawley female rats. Abstract #943. *The Toxicologist*, 45th Annual SOT Meeting, 2006.

Weiner ML, McCarty JD, Chen A, Nemecek M, Schaefer G, Buelke-Sam J. A simple method to estimate rat pup exposure in dietary developmental neurotoxicity studies. Abstract #97. *The Toxicologist*, 44th Annual SOT Meeting, 2005.

Nissen-Meyer S, Holihan JC, McCarty JD. Minimal ecological risk from multiple applications of carfentrazone-ethyl as an aquatic herbicide. Abstract #PW202. 25th Annual SETAC Meeting, November 2004.

Nuber D, Weiner M, McCarty J, Li K. Modified cellulose gum: A subchronic feeding and developmental study in Sprague-Dawley rats. 24th Annual Meeting of the American College of Toxicology, November 2–5, 2003.

McCarty JD, Anderson SA, Li KL. The toxicokinetics of peripheral cholinesterase inhibition from orally administered carbofuran in rats. Abstract #1482. The Toxicologist, 42nd Annual SOT Meeting, 2003.

O'Neill TP, Bu W, Chengelis CP, Myers N, McCarty JD, Stetson PL, Sved D. Simultaneous determination of six urinary porphyrins in the untreated beagle dog using liquid chromatography-tandem mass spectrometry. Abstract #1724. The Toxicologist, 41st Annual SOT Meeting, 2002.

McCarty JD, Freeman C, Watt BA. Comparison of dietary and oral gavage administration of bifenthrin in developmental toxicity studies in Sprague-Dawley rats. Abstract #1567. The Toxicologist, 41st Annual SOT Meeting, 2002.

Butler WH, Morelli MA, McCarty JD, Finch JM, Barton SJ. Reversibility study of the hepatic and pulmonary effects of permethrin in mice. Abstract #1273. The Toxicologist, 39th Annual SOT Meeting, 2000.

Freeman C, McCarty JD, Fico TA, Fletcher MJ. Acute and subchronic neurotoxicity studies in rats with permethrin. Abstract #921. The Toxicologist, 33rd Annual SOT Meeting, 1994.

Fico TA, Freeman C, McCarty JD, Fletcher MJ. Acute and subchronic neurotoxicity studies in rats with cypermethrin. Abstract #922. The Toxicologist, 33rd Annual SOT Meeting, 1994.

McCarty JD, Javick RA, Fico TA, Mount EA, Fletcher MJ. Monitoring exposure of mixers and applicators to bifenthrin insecticide used as a termiticide pre- and post-construction. Abstract #425, The Toxicologist, 32nd Annual SOT Meeting, 1993.

Aguinaldo ER, Weiner ML, Freeman C, McCarty JD, Fletcher MJ, McConnell RF. Skin irritation studies with hydrogen peroxide. Abstract #354. The Toxicologist, 31st Annual SOT Meeting, 1992.

McCarty JD, Carter SP, Fletcher MJ, Reape MJ, Shindell S. Study of lithium absorption by users of spas treated with lithium ion. Abstract #663, The Toxicologist, 28th Annual SOT Meeting, 1989.

McCarty JD, Morrow LD, DeProspero JD, Kedderis LB, Fletcher MJ. Chronic toxicity/oncogenicity feeding studies in Sprague-Dawley rats and CF₁ mice with ethion. Abstract #702. The Toxicologist. 27th Annual SOT Meeting, 1988.

McCarty JD, Rapp WR, McConnell RF, Geiger LE, Fletcher MJ. The effects of a synthetic pyrethroid (bifenthrin) on the sciatic nerve of rats in a two-year feeding study—A comparison of three different nerve stains. Abstract #217. The Toxicologist, 26th Annual SOT Meeting, 1987.

McCarty JD, DeProspero JR, Weiner M, Geiger LE, Fletcher MJ. Acute toxicity of carbosulfan. Abstract #395. The Toxicologist. 24th Annual SOT Meeting, 1985.

DeProspero JR, Weiner M, McCarty JD, Geiger LE, Norvell MJ, Fletcher MJ. Twenty-four month dietary toxicity and oncogenicity studies with carbosulfan in mice and rats. Abstract #62. The Toxicologist. 24th Annual SOT Meeting, 1985.

Weiner M, McCarty JD, DeProspero JR, Geiger LE, Norvell MJ, Fletcher MJ. Genetic toxicology profile of carbosulfan. Abstract #85. The Toxicologist. 24th Annual SOT Meeting, 1985.

Presentations

McCarty JD. Major routes of exposure to pesticides and how to protect against them. 18th Annual Northeastern Industrial Hygiene Conference, December 4, 1998.

Prior Experience

Toxicology Research Fellow, FMC Corporation, 2007–2008

Research Fellow and Technical Leader for Toxicology, FMC Corporation, 2006–2007

Technical Leader for Toxicology, FMC Corporation, 2004–2006

Manager, Toxicology Programs, FMC Corporation, 1988–2004

Toxicologist, FMC Corporation, 1984–1988

Quality Assurance Specialist, FMC Corporation, 1982–1983

Professional Affiliations

- Society of Toxicology, 1988–present
- American College of Toxicology, Council member 1995–1997
- Mid-Atlantic Chapter of the Society of Toxicology, Secretary-Treasurer 1999–2001