

CURRICULUM VITAE

F. Jay Murray, Ph.D., DABT

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San Jose, California 95138
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PROFESSIONAL EXPERIENCE

- 1994-present MURRAY & ASSOCIATES, San Jose, California
President
- 1992-1994 ENSR HEALTH SCIENCES, Alameda, California
Vice President and General Manager
- 1978-1992 SYNTEX CORPORATION (currently, Roche Biosciences), Palo Alto, California
Director, Planning and Business Development (1990-1992)
Therapeutic Group Director, Human Pharmaceutical Regulatory Affairs (1989-1990)
Director, Environmental Health and Safety (1983-1989)
Director, Environmental Affairs(1983)
Manager, Industrial and Environmental Toxicology (1979-1983)
Corporate Industrial Toxicologist (1978-1979)
- 1974-1978 THE DOW CHEMICAL COMPANY, Midland, Michigan
Research Specialist (1977-1978)
Senior Research Toxicologist (1974-1977)

EDUCATION

- 1970-1974 Ph.D., Toxicology/Environmental Health, University of Cincinnati College of Medicine, Institute of Environmental Health (Kettering Laboratory), Cincinnati, Ohio

1966-1970 B.A., Biology/Chemistry, Seton Hall University,
South Orange, New Jersey.

BUSINESS EDUCATION

1990 Stanford Executive Program, Graduate School of Business,
Stanford University, Stanford, California

1989 The Levinson Institute, Seminar "On Leadership",
Andover, Massachusetts

CERTIFICATION AND PROFESSIONAL SOCIETIES

Diplomate, American Board of Toxicology (Board
Certified Toxicologist) (1980-2020)
Society of Toxicology (1982-2019)
International Society of Toxicology and Regulatory Pharmacology,
Councilor (2007-2014)
Academy of Kettering Fellows

ACADEMIC APPOINTMENT

Assistant Clinical Professor of Medicine,
Department of Occupational Medicine,
University of California,
San Francisco, School of Medicine (1983-2006)

OTHER ACTIVITIES

Member, Governor's Scientific Advisory Panel, Safe
Drinking Water and Toxic Enforcement Act (Proposition 65),
State of California (1987-1989)
Acting Chairperson (1988-1989) and Member (1987-1989),
Reproductive Toxicity Subcommittee,
Governor's Scientific Advisory Panel,
State of California
Member, Environment Committee, U.S. Council for
International Business (1988-1989)
Sponsor, The President's Commission on Executive
Exchange, Managed an EPA Executive from the Office
of Pesticides and Toxic Substances for one year
(1988-9)
Awarded the annual "Industry Advancement Award" from
the American Meat Institute for outstanding service to
industry and consumers (October, 2000).
Advisory Committee, Hazard Evaluation System and
Information Service, Dept. of Health Services,
State of California (1983-1984)
Governor's Task Force on Dioxin, Invited Participant,

Other Activities (Cont'd) Executive Office, State of Missouri
Member, Technical Committee, Society of Toxicology
(1985-1987)
Invited Lecturer, School of Public Health
University of California, Berkeley
Invited Lecturer, Departments of Pharmacology
and Dermatology, Stanford University
Medical Center, Stanford, California
Invited Panelist, Making Risk Assessment Work: The
Role of the Institute for Evaluating Health Risks,
NAS-NAE Beckman Center, July 26, 1989, Irvine, CA
Invited Participant, Research Planning Workshop
on Bioavailability of Dioxins, EPA Office
of Research and Development, Nov. 9-12,
1984, Raleigh, North Carolina
Invited Participant, Risk Assessment Issues in
Reproductive and Developmental Toxicology,
Co-sponsored by the International Life Sciences
Institute and EPA, Sept 18-19, 1989, Berkeley, CA
Sponsor, Symposium on Public Health Risks of the
Dioxins, The Rockefeller University, Oct. 19-20, 1983
New York City, New York
Chairman, Reproductive Toxicology Session, 22nd
Annual Meeting of the Society of Toxicology
March 7-11, 1983, Las Vegas, Nevada
Chairman, Biological Monitoring Session, Third
International Congress on Toxicology, Aug. 28-
Sept. 3, 1983, San Diego, California
Member, Occupational Health and Safety Sub-
Committee, Pharmaceutical Manufacturers
Association, Washington, D.C.
Member and Primary Contact, Pharmaceutical
Safety Group
Sponsor, Industry Residency Program in
Occupational Medicine, University of
California, San Francisco, School of Medicine
Sponsor, Industry Residency Program in
Occupational Medicine, University of
Washington School of Medicine, Seattle, Washington
Technical Expert, Various lawsuits (U.S. and
International)
United Way (Syntex Corporation), Chairman (1983) and
Vice-Chairman (1982)

PUBLICATIONS

F. Jay Murray, Ph.D.

1. Murray, F. J. (1975) Implications of Teratogenic Hazard to Epileptic Women Taking Diphenylhydantoin as Indicated by Animal Studies. University Microfilms, Ann Arbor, Michigan.
2. Murray, F. J., Schwetz, B. A., Crawford, A. A., Henck, J. W., and Staples, R. E. (1978) Teratogenic Potential of Sulfur Dioxide and Carbon Monoxide in Mice and Rabbits. *Developmental Toxicology of Energy-Related Pollutants*. U.S. Department of Energy, CONF-771017, pp. 469-478.
3. Murray, F. J., Schwetz, B. A., and Holder, B. B. (1978) Women in the Workplace: Considerations for Protecting the Unborn. *Developmental Toxicology of Energy-Related Pollutants*. U.S. Department of Energy, CONF-771017, pp. 454-458.
4. Murray, F. J., Schwetz, B. A., Nitschke, K. D., John, J. A., Norris, J. M., and Gehring, P. J. (1978) Teratogenicity of Acrylonitrile Given to Rats by Gavage or by Inhalation. *Food and Cosmetics Toxicology*, 16:547-551.
5. Murray, F. J., John, J. A., Balmer, M. F., and Schwetz, B. A. (1978) Teratologic Evaluation of Styrene Given to Rats and Rabbits by Inhalation or by Gavage. *Toxicology*, 11:335-343.
6. Murray, F. J., Nitschke, K. D., Rampy, L. W., and Schwetz, B. A. (1979) Embryotoxicity and Fetotoxicity of Inhaled or Ingested Vinylidene Chloride in Rats and Rabbits. *Toxicology and Applied Pharmacology*, 49:189-202.
7. Murray, F. J., Schwetz, B. A., Crawford, A. A., Henck, J. W., Quast, J. F., and Staples, R. E. (1979) Embryotoxicity of Inhaled Sulfur Dioxide and Carbon Monoxide in Mice and Rabbits. *Journal of Environmental Health and Sciences*, C13(3):233-250.
8. Murray, F. J., Schwetz, B. A., Nitschke, K. D., Crawford, A. A., Quast, J. F., and Staples, R. E. (1979) Embryotoxicity of Inhaled Sulfuric Acid Aerosol in Mice and Rabbits. *Journal of Environmental Health and Sciences*, C13(3):251-266.

9. Murray, F. J., Smith, F. A., Nitschke, K. D., Humiston, C. G., Kociba, R. J., and Schwetz, B. A. (1979) Three-Generation Reproduction Study of Rats Given 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) in the Diet. Toxicology and Applied Toxicology, 50:241-252.
10. John, J. A., Blogg, C. D., Murray, F. J., Schwetz, B. A., and Gehring, P. J. (1979) Teratogenic Effects of the Plant Hormone Indole-3-Acetic Acid in Mice and Rats. Teratology, 19:321-326.
11. Murray, F. J., John, J. A., Rampy, L. W., Kuna, R. A., and Schwetz, B. A. (1979) Embryotoxicity of Inhaled Benzene in Mice and Rabbits. American Industrial Hygiene Association Journal, 40:993-998.
12. Murray, F. J., Schwetz, B. A., McBride, J. G., and Staples, R. E. (1979) Toxicity of Inhaled Chloroform in Pregnant Mice and Their Offspring. Toxicology and Applied Pharmacology, 50:515-522.
13. Murray, F. J., Staples, R. E., and Schwetz, B. A. (1979) Teratogenic Potential of Carbaryl Given to Rabbits and Mice by Gavage or by Dietary Inclusion. Toxicology and Applied Pharmacology, 51:81-89.
14. Murray, F. J., Schwetz, B. A., Balmer, M. F., and Staples, R. E. (1980) Teratogenic Potential of Hexachlorocyclopentadiene in Mice and Rabbits. Toxicology and Applied Pharmacology, 53:497-500.
15. Deacon, M. M., Pilny, M. D., John, J. A., Schwetz, B. A., Murray, F. J., Yakel, H. O., and R. A. Kuna (1981) Embryo- and Fetotoxicity of Inhaled Methyl Ethyl Ketone in Rats. Toxicology and Applied Pharmacology, 59:620-624.
16. John, J.A., Murray, F.J., Rao, K.S., and Schwetz, B.A. (1981) Teratologic Evaluation of Orthophenylphenol in Rats. Fundamental and Applied Toxicology, 1:282-285.
17. Smith, F.A., Murray, F.J., John J.A., Nitschke, K.D., Kociba, R.J., and Schwetz, B.A. (1981) Three-Generation Reproduction Study of Rats Ingesting 2,4,5-Trichlorophenoxyacetic Acid (2,4,5-T) in the Diet. Food and Cosmetic Toxicology, 19:41-45.
18. John, J.A., Murray, F.J., Quast, J.F., Keeler, P.A., Schwetz, B.A., and Staples R.E. (1982) 1,1,3,3 - Tetrachloroacetone: Teratogenicity Study in Mice and Rabbits. Fundamental and Applied Toxicology, 2:220-225.
19. Rao, K.S. Burek, J.D., Murray, F.J., John, J.A., Schwetz, B.A.

- Murray, J.S., Bell, T.J., Beyer, J.E., Potts, W.J., and Parker, C.M. (1983) Toxicologic and Reproductive Effects of Inhaled 1, 2- Dibromo - 3 - Chloropropane (DBCP) in Rabbits. Fundamental and Applied Toxicology, 2:241-251.
20. Rao, K.S., Burek, J.D., Murray, F.J., John, J.A., Schwetz, B.A., Murray, J.S., Bell, T.J., Battijes, J.E., Potts, W.J., and Parker, C.M. (1983) Toxicologic and Reproductive Effects of Inhaled 1, 2- Dibromo - 3 - Chloropropane (DBCP) in Rats. Fundamental and Applied Toxicology, 3:104-110.
21. John, J.A., Quast, J.F., Murray, F.J. Calhoun, L.G., and Staples, R.E. (1983) Inhalation Toxicity of Epichlorohydrin: Effect on Fertility in Rats and Rabbits. Toxicology and Applied Pharmacology, 68:415-423.
22. Paustenbach, D.J. and Murray, F.J. (1986) A Critical Examination of Assessments of the Health Risks Associated with 2,3,7,8-TCDD in Soil. Chemosphere, 15:1867-1874.
23. Paustenbach, D.J., Shu, H.P. and Murray, F.J. (1986) A Critical Examination of Assumptions Used in Risk Assessments of Dioxin Contaminated Soil. Regulatory Toxicology and Pharmacology, 6:284-307.
24. Shu, H.P., Paustenbach, D.J., and Murray, F.J. (1987) A Critical Evaluation of the Use of Mutagenesis, Carcinogenesis and Tumor Promotion Data in a Cancer Risk Assessment of 2,3,7,8-TCDD. Regulatory Toxicology and Pharmacology, 7:57-88.
25. Paustenbach, D.J., Shu, H.P. and Murray, F.J. (1987) Assessing the Potential Human Health Hazards of Dioxin-Contaminated Soil. Solving Hazardous Waste Problems. Learning from Dioxins. Edited by J. H. Exner, ACS Symposium Series, pp. 178-213.
26. Leung, H., Hallesy, D.W., Shott, L.D., Murray, F.J., and Paustenbach, D.J. (1987) Toxicological Evaluation of Substituted Dicyclopentadienyliron (Ferrocene) Compounds. Toxicology Letters, 38: 103-108.
27. Shu, H., Teitelbaum, P., Webb, A.S., Marple, L., Brunck, B., Dei Rossi, D., Murray, F.J. and Paustenbach, D.J. (1988) Bioavailability of Soil-Bound TCDD: Dermal Bioavailability in the Rat. Fundamental and Applied Toxicology, 10:335-343.

28. Shu, H., Paustenbach, D.J., Murray, F.J., Marple, L., Brunchk, B., Dei Rossi, D. Webb, A.S. and Teitelbaum, P. (1988) Bioavailability of Soil-Bound TCDD: Oral Bioavailability in the Rat. Fundamental and Applied Toxicology, 10:648-654.
29. Leung, H.W., Murray, F.J. and Paustenbach, D.J. (1988) A Proposed Occupational Exposure Limit for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. American Industrial Hygiene Association Journal, 49(9):466-474.
30. Leung, H.W., Paustenbach, D.J. and Murray, F.J. (1989) Documentation for an Occupational Exposure Limit for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. Chemosphere 18:1115-1122.
31. Leung, H.W., Paustenbach, D.J., Murray, F.J. and Anderson, M.E. (1990). A Physiological Pharmacokinetic Description of the Tissue Distribution and Enzyme Induction of 2,3,7,8-Tetrachlorodibenzo-p-dioxin in the Rat. Toxicology and Applied Pharmacology 103:399-410.
32. Leung, H.W., Poland, A.P., Paustenbach, D.J., Murray, F.J. and Anderson, M.E. (1990) Tissue Distribution of [¹²⁵I]-2-Iodo-3,7,8-Tetrachlorodibenzo-p-dioxin in Mice: Analysis with a Physiological Modeling Approach. Toxicology and Applied Pharmacology, 103:411-419.
33. Ku, R.H., Murray, F.J. and Leung, H.W. (1991) Dispositional Differences of 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Rats and Humans: Implications in Cancer Mechanisms and Risk Assessment. The Analysis, Communication, and Perception of Risk, Edited by B.J. Garrick and W.C. Gekler, Plenum Press, New York, pp 411-419.
34. Murray, F.J. and Arnstein, C. (1993) Integrating Claims Management Programs to Get That Competitive Edge. Risk Management, November.
35. Murray, F.J. (1995) A Human Health Risk Assessment of Boron (Boric Acid and Borax) in Drinking Water. Regulatory Toxicology and Pharmacology, 22:221-230.
36. Murray, F.J., Price, C.J., and Strong, P.L. (1995) Risk assessment of boric acid (BA): A novel pivotal study. The Toxicologist 15:35 (A-190).
37. Price, C.J., Strong, P.L., Marr, M.C., Myers, C.B. and Murray, F.J. (1996) Developmental Toxicity NOAEL and Postnatal Recovery in Rats Fed Boric Acid During Gestation. Fundamental and Applied Toxicology 32:179-193.

38. Murray, F.J. (1996) Do Chlorinated Chemicals Increase Breast Cancer Risk? Proceedings of the MIT Conference on the Future Uses of Chlorine: Issues in Education, Research, and Policy.
39. Murray, F.J. (1996) Issues in Boron Risk Assessment: Pivotal Study, Uncertainty Factors, and ADIs. The Journal of Trace Elements in Experimental Medicine, 9:231-243.
40. Price, C. J., Strong, P.L., Murray, F. J., and Goldberg, M.M. (1997) Blood boron concentrations in pregnant rats fed boric acid throughout gestation. Reprod. Toxicol. 11(6), 833-842
41. Fort, D.J., Stover, E.L., Propst, T..L., Faulkner, B.C., Vollmuth, T.A., and Murray, F.J. (1998) Evaluation of the Developmental Toxicity of Caffeine and Caffeine Metabolites Using the Frog Embryo Teratogenesis Assay – Xenopus (FETAX). Food and Chemical Toxicol. 36, 591-600.
42. Murray, F.J. (1998) A Comparative Review of the Pharmacokinetics of Boric Acid in Rodents and Humans. Biological Trace Element Research 66, 331-341.
43. Fort, D.J., Probst, T.L., Stover, E.L., Strong, P.L., and Murray, F.J. (1998) Adverse Reproductive and Developmental Effects in *Xenopus* from Insufficient Boron. Biological Trace Element Research 66, 237-260.
44. Lanoue, L., Taubeneck, M.W., Muniz, J., Hanna, L.A., Strong, P.L., Murray, F.J., Nielsen, F.H., Hunt, C.D., and Keen, C.L. (1998) Assessing the Effects of Low Boron Diets on Embryonic and Fetal Development in Rodents Using In Vitro and In Vivo Model Systems. Biological Trace Element Research 66, 271-298.
45. Price, C.J., Strong, P.L., Murray, F.J., and Goldberg, M.M. (1998) Developmental Effects of Boric Acid in Rats Related to Maternal Blood Boron Concentrations. Biological Trace Element Research 66, 359-372.
46. Fort, D.J., Stover, E.L., Strong, P.L., Murray, F.J., and Keen, C.L. (1999) Chronic Feeding of a Low Boron Diet Adversely Affects Reproduction and Development in *Xenopus Laevis*. Journal of Nutrition 129(11), 2055-60.
47. Murray, F.J. and Andersen, M.E. (2001) Data-derived Uncertainty Factors: Boric Acid as a Case Study. Human & Ecological Risk Assessment 7(1), 125-138.
48. Vaziri, N.D., Oveysi, F., Culver, B.D., Pahl, M.V., Andersen, M.E., Strong, P.L., and Murray, F.J. (2001) The Effect of Pregnancy on Renal Clearance of Boron in Rats Given Boric Acid Orally. Toxicological Sciences 60, 257-263.

49. Pahl, M.V., Culver, B.D., Strong, P.L., Murray, F.J, and Vaziri, N.D. (2001) The Effect of Pregnancy on Renal Clearance of Boron in Humans: A Study Based on Normal Dietary Intake of Boron. Toxicological Sciences 60, 252-256.
50. Culver, B.D., Strong, P.L., and Murray, F.J. (2001) Boron. Patty's Toxicology Fifth Edition, Volume 3, Chapter 45. Editors: Bingham, E., Cohrssen, B., and Powell, C. John Wiley & Sons, Inc., New York.
51. Ohanian, E., Dourson, M., Miller, M., Murray, J., Davis, R., Meek, B., and Naumann, B. (2002) A National and International Debate on Default Uncertainty Factors vs. Data-Derived Uncertainty Factors. Human and Ecological Risk Assessment 8(4), 895-911.
52. Murray, F.J. and Schlekot, C.E. (2004) Comparison of risk assessments of boron: alternate approaches to chemical-specific adjustment factors Human and Ecological Risk Assessment 10, 57-68
53. Murray, F.J. (2004) A National and International Debate on Same Default and Chemical-specific Adjustment Factors for Precursor and Toxicological Endpoints. Human and Ecological Risk Assessment. Volume 10, Number 1, February, 2004.
54. Murray, F.J. (2011) Does 4-Methylimidazole Have Tumor Preventive Activity in the Rat? Food and Chemical Toxicology. 49(1): 320-322.
55. Gray, T. M., Simpson, B.J., Nicolich, M.N., Murray, F.J., Verstuyft, A.W., Roth, R.N., McKee, R.H. (2013) Assessing the Mammalian Toxicity of High-boiling Petroleum Substances under the Rubric of the HPV Program. Regulatory Toxicology and Pharmacology. 67(2):S4-S9.
56. Nicolich, M.N., Simpson, B.J., Murray, F.J., Roth, R.N., Gray, T.M. (2013) The Development of Statistical Models to Determine the Relationship between Aromatic-ring Class Profile and Repeat-dose and Developmental Toxicities of High-boiling Petroleum Substances. Regulatory Toxicology and Pharmacology. 67(2):S10-S29
57. Roth, R.N., Simpson, B.J., Nicolich, M.N., Murray, F.J., and Gray, T.M. (2013) The Relationship between Repeat-dose Toxicity and Aromatic-ring Class Profile of High-boiling Petroleum Substances. Regulatory Toxicology and Pharmacology. 67(2):S30-S45.
58. Murray, F. J., Roth, R.N., Nicolich, M.N., Gray, T.M., and Simpson, B.J. (2013) The Relationship between Developmental Toxicity and Aromatic-ring Class Profile of

- High-boiling Petroleum Substances. Regulatory Toxicology and Pharmacology. 67(2):S46-S59.
59. Murray, F.J., Gray, T.M., Roberts, L.G., Roth, R.N., Nicolich, M.N., Simpson, B.J. (2013) Evaluating the Male and Female Reproductive Toxicity of High-boiling Petroleum Substances. Regulatory Toxicology and Pharmacology. 67(2):S60-S74.
 60. Murray, F. J., Sullivan, F.M., Tiwary, A.K., Carey, S. (2013) 90-Day Subchronic Toxicity Study of Sodium Molybdate Dihydrate in Rats. Regulatory Toxicology and Pharmacology. 70(3):579-88.
 61. Dalbey, W.E, McKee, R.H., Olsavsky Goyak, K., Biles, R.W., Murray, F. J., White, R. (2014) Acute, Subchronic, and Developmental Toxicological Properties of Lubricating Oil Basestocks. International Journal of Toxicology. 33(S1):110S-135S.
 62. Roberts, L.G., Gray, T.M., Trimmer, G.W., Parker, R. M., Murray, F. J., Schreiner, C.A. (2014) Health Assessment of Gasoline and Fuel Oxygenate Vapors: Developmental Toxicity in Rats. Regulatory Toxicology and Pharmacology. May 17. pii: S0273-2300(14)00091-9. doi: 10.1016/j.yrtph.2014.05.009. [Epub ahead of print]
 63. Roberts, L.G., Gray, T.M., Marr, M.C., Tyl, R.W., Trimmer, G.W., Hoffman, G.M., Murray, F.J., Clark, C.R., Schreiner, C.A. (2014) Health Assessment of Gasoline and Fuel Oxygenate Vapors: Developmental Toxicity in Mice. Regulatory Toxicology and Pharmacology. Jun 28. pii: S0273-2300(14)00125-1. doi: 10.1016/j.yrtph.2014.06.011. [Epub ahead of print]
 64. Murray, F.J., Tyl, R.W., Sullivan, F. M., Tiwary, A.K., Carey, S. (2014) Developmental Toxicity Study of Sodium Molybdate Dihydrate Administered in the Diet to Sprague-Dawley Rats. Reproductive Toxicology. 49:202-8.
 65. Cruzan, G., Harkema, J.R., Hosaka, H., Wasil, J.M., Murray, F. J. (2015) Evaluation of the Mode of Action of Mouse Lung Tumors Induced by 4-Methylimidazole. Regulatory Toxicology and Pharmacology. 73(2):501-8.
 66. Murray, F.J., Sullivan, F.M., Hubbard, S.A., Hoberman, A.H., Carey, S. (2018) A two-generation reproductive toxicity study of sodium molybdate dihydrate administered in drinking water or diet to Sprague-Dawley rats. Reproductive Toxicology. <https://doi.org/10.1016/j.reprotox.2018.11.004>

PRESENTATIONS

F. Jay Murray, Ph.D.

1. Schwetz, B. A., Murray, F. J., and Staples, R. E.: Teratology Studies on the Metabolic Inhibitors SKF-525A and Piperonyl Butoxide in Mice and Rabbits. Presented at the 15th Annual Meeting of the Society of Toxicology, March 14-18, 1976, Atlanta, Georgia.
2. Murray, F. J., Smith, F.A., Nitschke, K. D., Humiston, C. G., Kociba, R. J., and Schwetz, B. A.: Three-Generation Reproduction Study of Rats Ingesting 2,3,7,8-Tetrachlorodibenzo-p-dioxin. Presented at the 16th Annual Meeting of the Society of Toxicology, March 28-30, 1977, Toronto, Canada.
3. John, J. A., Blogg, C. D., Murray, F. J., Schwetz, B. A., and Gehring, P. J.: Teratogenic Effects of the Plant Hormone Indole-3-Acetic Acid in Mice and Rats. Presented at the 16th Annual Meeting of the Society of Toxicology, March 28-30, 1977, Toronto, Canada.
4. Murray, F. J.: Toxicology: A Chemical Company's Approach. Presented at the TAPPI International Dissolving Pulps Conference, September 28-30, 1977, Chicago, Illinois.
5. Murray, F. J., Schwetz, B. A., Crawford, A. A., Henck, J. A., and Staples, R. E.: Teratogenic Potential of Sulfur Dioxide and Carbon Monoxide in Mice and Rabbits. Presented at the 17th Hanford Biology Symposium "Developmental Toxicology of Energy-Related Pollutants," October 17-19, 1977, Richland, Washington.
6. Murray, F. J., Schwetz, B. A., and Holder, B. B.: Women in the Workplace: Considerations for Protecting the Unborn. Presented at the 17th Hanford Biology Symposium "Developmental Toxicology of Energy-Related Pollutants," October 17-19, 1977, Richland, Washington.
7. Quast, J. F. Kalnins, R. P., Olson, K. J., Humiston, C. G., Murray, F. J., John, J. A., and Schwetz, B. A.: Results of a Toxicity Study in Dogs and Teratogenicity Studies in Rabbits and Rats Administered Monomeric Styrene. Presented at the 17th Annual Meeting of the Society of Toxicology, March 12-16, 1978, San Francisco, California.
8. Smith, F. A., Schwetz, B. A., Murray, F. J., Crawford, A. A., John, J. A., Kociba, R. J., and Humiston, C. G.: Three- Generation Reproduction Study of Rats Ingesting

- 2,4,5-Trichloro- phenoxyacetic Acid in the Diet. Presented at the 17th Annual Meeting of the Society of Toxicology, March 12-16, 1978, San Francisco, California.
9. Murray, F. J., Nitschke, K. D., Smith, F. A., John, J. A., Humiston, C. G., Quast, J., F., and Schwetz, B. A.: Teratology and Reproduction Studies of Vinylidene Chloride in Rats and Rabbits. Presented at the 17th Annual Meeting of the Society of Toxicology, March 12-16, 1978, San Francisco, California.
 10. John, J. A., Murray, F. J., Smith, F. A., and Schwetz, B. A.: Teratologic Evaluation of Vinyl Chloride, Vinylidene Chloride, and Styrene in Laboratory Animals. Presented at the 18th Annual Teratology Society Meeting, June 8-11, 1978, Mackinac Island, Michigan.
 11. Murray, F. J., Nitschke, K. D., John, J. A., Crawford, A. A., McBride, J. G., and Schwetz, B. A.: Teratogenic Potential of Acrylonitrile Given to Rats by Gavage or Inhalation. Presented at the 18th Annual Teratology Society Meeting, June 8-11, 1978, Mackinac Island, Michigan.
 12. Burek, J. D., Murray, F. J., Rao, K. S., Crawford, A. A., Beyer, J. S., Albee, R. R., and Schwetz, B. A.: Pathogenesis of Inhaled 1,2-Dibromo-3-chloropropane (DBCP) Induced Testicular Atrophy in Rats and Rabbits. Presented at the 18th Annual Meeting of the Society of Toxicology, March 11-15, 1979, New Orleans, Louisiana.
 13. Rao, K. S., Murray, F. J., Crawford, A. A., John, J. A., Potts, W. J., Schwetz, B. A., Burek, J. D., and Parker, C. M.: Effects of Inhaled 1,2-Dibromo-3-Chloropropane (DBCP) on the Semen of Rabbits and the Fertility of Male and Female Rats. Presented at the 18th Annual Meeting of the Society of Toxicology, March 11-15, 1979, New Orleans, Louisiana.
 14. Nitschke, K. D., Schwetz, B. A., Murray, F. J., and Staples, R. E.: A Teratogenicity Study of Inhaled Sulfuric Acid Aerosol at Concentrations of 0, 5, and 20 mg/M³ in Mice and Rabbits. Presented at the 19th Annual American Industrial Hygiene Conference, May 27 - June 1, 1979, Chicago, Illinois.
 15. John, J. A., Murray, F. J., Murray, J. S., Schwetz, B. A., and Staples, R. E.: Evaluation of Environmental Contaminants, Tetrachloroacetone, Hexachlorocyclopentadiene, and Sulfuric Acid Aerosol for Teratogenic Potential in Mice and Rabbits. Presented at the 19th Annual Teratology Society Meeting, June 10-14, 1979, Cedar, Michigan.

16. John, J. A., Quast, J. F. Murray, F. J., Henck, J. W., Calhoun, L. G., Lederer, T. S., Pilny, M. K., and Staples, R. E.: Effects of Inhaled Epichlorohydrin on Fertility and Fetal Development in Rats and Rabbits. Presented at the 19th Annual Meeting of the Society of Toxicology, March 8-13, 1980, Washington, D.C.
17. Murray, F.J.: Current Methods for Biological Monitoring. Presented at the Joint Conference on Occupational Health (AAIH, AAOM, and SOT), October 28-31, 1980, San Francisco, CA.
18. Burek, J.D., Murray, F.J., Rao, K.S., Crawford, A.A., John, J.A., Bell, T.J., Beyer, J.S., Albee, R.R., Potts, W.J., Parker, C.M., and Schwetz, B.A.: Recovery From DBCP Induced Alterations in Rats and Rabbits. Presented at the 20th Annual Meeting of the Society of Toxicology, March 1-5, 1981, San Diego, California.
19. Murray, F.J., and Brennan, E.F.: Advances in Biological Monitoring. Presented at the American Industrial Hygiene Conference, May 24-29, 1981, Portland, Oregon.
20. Murray, F.J.: Reproductive Hazards in the Workplace. Presented at the Second Conference on Occupational Health and Safety (PMA), October 1-2, 1981, Washington, D.C.
21. Murray, F.J.: Reproductive Hazards Policy: A Corporate Model. Presented at the Conference on Reproductive Hazards in the Workplace and the Environment. November 13-14, 1981, Berkeley, California.
22. Murray, F.J.: Health Surveillance: Computer Applications. Presented at the Pacific Occupational Safety and Health Conference, October 8-10, 1982, Santa Clara, California.
23. Murray, F.J., Whorton, M.D., Brennan, E.F., Pennelly, L., Goodpasture, J.C., and Reeve, B.L.: Semen Evaluation of Workers at a Steroid Hormone Manufacturing Facility. Presented at the 22nd Annual Meeting of the Society of Toxicology, March 7-11, 1983, Las Vegas, Nevada.
24. Murray, F.J., Brennan, E.F., and Reeve, B.L.: Computerized Health Surveillance: A Complement to Animal Testing. Presented at the 22nd Annual Meeting of the Society of Toxicology, March 7-11, 1983, Las Vegas, Nevada.
25. Brennan, E.F., and Murray, F.J.: Biological Monitoring for Exposure to Synthetic Estrogens. Presented at the 22nd Annual Meeting of the Society of Toxicology, March 7-11, 1983, Las Vegas, Nevada.

26. Murray, F.J.: Managing Health and Safety in a Complex Techno/Legal Environment. Presented at the Spring Symposium of the Northern California Section of the American Industrial Hygiene Association, April 6, 1983, San Mateo, California.
27. Murray, F.J.: Five Years of Experience with a Computerized Health Surveillance Program. Presented at the Third International Congress on Toxicology, August 28-September 3, 1983, San Diego, California.
28. Murray, F.J.: Evaluation and Clean-up of Dioxin-Containing Wastes in Southwest Missouri. Presented at the Third International Congress on Toxicology, August 28-September 3, 1983, San Diego, California.
29. Murray, F.J.: Evaluation of Computerized Health Surveillance, Presented at the Conference on Occupational Health and Safety, Pharmaceutical Manufacturers Association, Sept. 14, 1984, Crystal City, Virginia.
30. Murray, F.J., Managing Occupational Health and Safety in the Pharmaceutical Industry, Presented at the Environmental Health Seminar Series, Institute of Environmental Health, University of Cincinnati Medical Center, November 14, 1984, Cincinnati, Ohio.
31. Murray, F.J., Hazardous Waste Disposal, Presented at the Annual Meeting of the Western Occupational Medical Association, May 7-9, 1985, Stanford, California.
32. Paustenbach, D.J. and Murray, F.J., A Critical Examination of Assessments of the Health Risks Associated with 2,3,7,8-TCDD in Soil. Presented at the Fifth International Symposium on Chlorinated Dioxins and Related Compounds, September 16-19, 1985, Bayreuth, Germany.
33. Paustenbach, D.J., Shu, H.P., and Murray, F.J.: An Examination of Critical Assumptions in Health Risk Assessments of 2,3,7,8-TCDD Contaminated Soil. Presented at the 25th Annual Meeting of the Society of Toxicology, March 3-7, 1986, New Orleans, Louisiana.
34. Sielken, R.L., Carlborg, F.W., Paustenbach, D.J., Shu, H.P., and Murray, F.J.: Alternative Approaches to Mathematically Analyzing the Bioassay Data for 2,3,7,8-TCDD. Presented at the 25th Annual Meeting of the Society of Toxicology, March 3-7, 1986, New Orleans, Louisiana.
35. Paustenbach, D.J., Shu, H.P. and Murray F.J.: Assessing the Human

Health Hazards of Dioxin-Contaminated Soil. Presented at the 191st National Meeting of the American Chemical Society, April 13-16, 1986, New York, New York.

36. Murray, F.J.: Dioxin Clean-up in Missouri. Presented at the 71st Annual Meeting of the American Occupational Medical Association, April 27-May 2, 1986, Denver, Colorado.
37. Murray, F.J.: Examination of Assumptions Used in Dioxin Risk Assessments. Presented at the International Society of Regulatory Toxicology and Pharmacology, September 22, 1986, Arlington, Virginia.
38. Murray, F.J., Sawyer, C.J. and Guy, H.P.: Safe Handling of High Potency Drugs in Production: Engineering Controls and Protective Equipment. Presented at the Annual Congress of Associazione Farmaceutica Italiani, June 11-13, 1987, Padua, Italy.
39. Leung, H.W., Paustenbach, D.J. and Murray, F.J.: Documentation for an Occupational Exposure Limit for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. Presented at the 7th International Symposium on Chlorinated Dioxins and Furans, Oct 4-9, 1987, Las Vegas, Nevada.
40. Shu, H., Paustenbach, D.J., Murray, F.J., Marple, L., Brunck, D., Dei Rossi, D. Webb, A.S., and Teitelbaum, P.: Oral Bioavailability in the Rat of Soil-Bound TCDD. Presented at the 7th International Symposium on Chlorinated Dioxins and Furans Oct. 4-9, 1987, Las Vegas, Nevada.
41. Guy, H.P., Zaum, A.S., Sawyer, C.J. and Murray F.J.: Industrial Hygiene Evaluation and Rating System for a Multi-Plant, Multi-National Company. Presented at the American Industrial Hygiene Conference, May 15-20, 1988, San Francisco, California.
42. Murray, F. J.: Proposition 65: Science and Public Policy. Presented at the Midwest Teratology Association Meeting, November 11, 1988, South Bend, Indiana.
43. Leung, H.W., Poland, A.P., Murray, F.J., Paustenbach, D.J., and Anderson, M.E.: Dose-Dependent Pharmacokinetics of [¹²⁵I]-2-Iodo-3,7,8-Tetrachlorodibenzo-p-dioxin (ITCDD) in Mice. Presented at the 28th Annual Meeting of the Society of Toxicology, February 27-March 3, 1989, Atlanta, Georgia.
44. Murray, F.J.: Toxic Exposure and Reproduction: Looking into the 90's. Presented at the Western Occupational Health Conference, October 12-15, 1989, San Francisco, California.

45. Ku, R.H., Murray, F.J. and Leung, A.W.: Dispositional Differences of 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) in Rats and Humans: Implications in Cancer Mechanisms and Risk Assessment. Presented at the Society of Risk Analysis Annual Meeting, October 29 - November 1, 1989, San Francisco, California.
46. Murray, F.J.: Times Beach, Missouri: A Case Study of Dioxin Contamination. Presented at the Environmental Health Seminar Series, University of California, San Francisco School of Medicine, November 9, 1989, San Francisco, California.
47. Murray, F.J.: The Role of the Scientific Advisory Panel. Presented at the Food and Drug Law Institute Meeting, November 15, 1989, Washington, D.C.
48. Murray, F.J.: Winning in the 90s - Corporate Strategies for Environmental Management Presented at Stanford Research Institute's International Associates Program, September 30 - October 2, 1991, Marina del Rey, California.
49. Murray, F.J.: Trends in Environmental Management: Gaining the Gold in Green. Presented at the Pharmaceutical Manufacturers Association's Manufacturing Spring Symposium, May 17-20, 1992, San Francisco, California.
50. Murray, F.J.: Quantitative Risk Assessment of Borates in Drinking Water. Presented at the Symposium on the Health Effects of Borates. EPA's Environmental Criteria and Assessment Office, February 11, 1993, Cincinnati, Ohio.
51. Murray, F.J.: Quantitative Risk Assessment Considerations Relative to Borate Health Effects Studies. Presented at the Ottawa Forum on Boron Containing Chemicals, November 8, 1993, Ottawa, Ontario, Canada.
52. Murray, F.J.: Borates: Issues in Risk Estimation. Presented at the Annual Winter Toxicology Forum, February 21-23, 1994, Washington, D.C.
53. Murray, F.J.: Environmental Estrogens. White House Briefing on Chlorinated Compounds and Science. August 3, 1994, Washington, D.C.
54. Murray, F.J.: Overview of the Environmental Estrogen Issue: Fact vs. Fiction. Presented at the Technical Meeting of the Soap and Detergent Association, September 20-22, 1994, Chicago, Illinois.
55. Price, C.J., Strong, P.L., Marr, M.C., Myers, C.B., and Murray, F.J.: Developmental Toxicity NOAEL and Postnatal Recovery in Rats Fed Boric Acid During

- Gestation. Presented at the 15th Annual Meeting of the American College of Toxicology, October 23-26, 1994, Williamsburg, Virginia.
56. Murray, F.J., Price, C.J., and Strong, P.L. Risk Assessment of Boric Acid (BA): A Novel Pivotal Study. Presented at the 34th Annual Meeting of the Society of Toxicology, March 5-9, 1995, Baltimore, Maryland.
 57. Murray, F.J.: Risk Assessment of Boron in Drinking Water. Presented at the International Congress of Toxicology - VII. July 2-6, 1995, Seattle, Washington.
 58. Murray, F.J.: Issues in Boron Risk Assessment: Subtle Toxic Effects, Uncertainty Factors, Nutritional Importance, and Acceptable Daily Intake. Presented at the International Society for Trace Elements Research in Humans Fourth International Conference, September 25-28, 1995, Sicily, Italy.
 59. Murray, F.J.: Do Chlorinated Chemicals Increase Breast Cancer Risk? Presented at the Conference on the Future Uses of Chlorine: Issues in Education, Research and Policy. Massachusetts Institute of Technology, June 12-13, 1996, Cambridge, MA.
 60. Murray, F.J.: Risk Assessment of Boron Exposure. Presented at the Annual Meeting of the American College of Nutrition, October 7-11, 1996, San Francisco, CA.
 61. Murray, F.J.: Proposition 65 Policy: Science, Law and Reality. California Proposition 65's 11th Year Conference "Proposition 65 in Its Second Decade: Unruly Teenager or Mature Veteran?" March 7, 1997, Marina del Rey, CA.
 62. Murray F.J.: A Comparative Review of the Pharmacokinetics of Boric Acid in Rodents and Humans. Presented at the Second International Symposium on the Health Effects of Boron and its Compounds, October 22-24, 1997, Irvine, CA.
 63. Fort, D.J., Probst, T.L., Stover, E.L., Strong, P.L., and Murray, F.J. Adverse Reproductive and Developmental Effects in *Xenopus* from Insufficient Boron. Presented at the Second International Symposium on the Health Effects of Boron and its Compounds, October 22-24, 1997, Irvine, CA.
 64. Lanoue, L., Taubeneck, M.W., Muniz, J., Hanna, L.A., Strong, P.L., Murray, F.J., Nielsen, F.H., Hunt, C.D., and Keen, C.L. Assessing the Effects of Low Boron Diets on Embryonic and Fetal Development in Rodents Using In Vitro and In Vivo Model Systems. Presented at the Second International Symposium on the Health Effects of Boron and its Compounds, October 22-24, 1997, Irvine, CA.
 65. Price, C.J., Strong, P.L., Murray, F.J., and Goldberg, M.M. Developmental Effects of Boric Acid in Rats Related to Maternal Blood Boron Concentrations. Presented

at the Second International Symposium on the Health Effects of Boron and its Compounds, October 22-24, 1997, Irvine, CA.

66. Murray, F.J.: Proposition 65 Science for the Non-Scientist. Presented at the Seminar for Science, Law, Information and the Global Marketplace, February 19, 1998, San Francisco, CA.
67. Murray, F.J.: Proposition 65's Focus on Consumer Products. Presented at the Proposition 65 News' 12th Year Conference "Going National or Going Away?" February 20, 1998, San Francisco, CA.
68. Murray, F.J.: Science – Making Your Case. Presented at the Annual Prop 65 News Conference and Seminars, March 17-18, 1999, Sacramento, CA.
69. Murray, F.J., Charnley, G., Hubbard, S.A., and Strong, P.L.: Harmonizing Approaches to Determining Data-Derived Uncertainty Factors: Boric Acid as a Case Study. Presented at the Society of Risk Assessment (SRA) Europe Ninth Annual Conference, October 10-13, 1999, Rotterdam, The Netherlands.
70. Murray, F.J. and Andersen, M.E.: Data-Derived Uncertainty Factors: Boric Acid as a Case Study. Presented at the Fourth Annual Workshop on Evaluation of Default Safety Factors in Health Risk Assessment, May 3-4, 2000, Nutley, NJ.
71. Wenning, R.J., Folwarkow, S.N., Murray, F.J., and Embree, J.W.: Current Understanding and Misperceptions about Environmental Levels, Sources and Health Risks Posed by Dioxins in San Francisco Bay. Presented at Dioxin 2000: 20th International Symposium on Halogenated Environmental Organic Pollutants and POPs, August 13-17, 2000, Monterey, CA.
72. Murray, F.J.: Proposition 65 Science in the New Millenium: Where Is It Going? Presented at the Proposition 65 News Conference 2001. March 6-7, 2001, San Francisco, CA.
73. Vaziri, N.D., Oveisi, F., Culver, B.D., Pahl, M.V., Andersen, M.E., Strong, P.L., and Murray, F.J.: Renal Clearance of Boron in Pregnant and Non-pregnant Sprague-Dawley Rats Given Boric Acid by Gavage. Presented at the 40th Annual Meeting of the Society of Toxicology. March 25-29, 2001, San Francisco, CA.
74. Pahl, M.V., Culver, B.D., Strong, P.L., Murray, F.J, and Vaziri, N.D.: The Effect of Pregnancy on Renal Clearance of Boron in Humans: A Study Based on Normal Dietary Intake of Boron. Presented at the 40th Annual Meeting of the Society of Toxicology. March 25-29, 2001, San Francisco, CA.

75. Murray, F.J.: Does the Use of Data-Derived Uncertainty Factors Allow Risk Assessors to Describe Uncertainty More Accurately? Presented at the Fifth Annual Workshop on the Evaluation of Default Uncertainty Factors in Health Risk Assessment. June 1, 2001, UMDNJ-New Jersey Medical School, Newark, NJ.
76. Murray, F.J.: Advances in Risk Assessment of Trace Elements: Boron as a Case Study. Presented at 11th International Symposium on Trace Elements in Man and Animals. June 2-6, 2002, Berkeley, CA.
77. Murray, F.J. and Schlekat, C.E.: Comparison of Risk Assessments of Boron: Alternate Approaches to Chemical-Specific Adjustment Factors. Presented at the Sixth Annual Workshop on the Evaluation of Default Uncertainty Factors in Health Risk Assessment. November 14-15, 2002, UMDNJ-New Jersey Medical School, Newark, NJ.
78. Murray, F.J.: Should the Same Default or Chemical-Specific Adjustment Factors Be Applied to Precursor Measures of Toxicity and Toxicological Endpoints Derived from *in vivo* Studies? Presented at the Sixth Annual Workshop on the Evaluation of Default Uncertainty Factors in Health Risk Assessment. November 14-15, 2002, UMDNJ-New Jersey Medical School, Newark, NJ.
79. Murray, F.J.: Is it Time to Reevaluate Proposition 65 Science? Presented at the Proposition 65 News Annual Conference and Seminars. Proposition 65: Sorting out the Conflicts. June 2, 2003, Sacramento, CA.
80. Murray, F.J.: The Impact of the Acrylamide Debate: Prop. 65's Perfect Storm? Presented at the Proposition 65 News Annual Conference and Seminars. Proposition 65: Judging Proposition 65. March 29, 2004. San Francisco, CA.
81. Murray, F.J.: Proposition 65 at 20: What Difference Has It Made? Presented at the Prop 65 News Annual Conference. September 27, 2005. Los Angeles, CA.
82. Murray, F.J.: How the Science of Risk Assessment Plays Out in the Reality of the Courtroom. Presented at the Proposition 65 Clearinghouse Conference. March 23, 2007. San Francisco, CA.
83. Simpson, B, Dalbey, W, Fetzer, J, Murray, J, Nicolich, M, Roth, R, Saperstein, M, White, R, and Gray, T (2008) The relationship between the aromatic ring class content and repeat-dose and developmental toxicities of petroleum substances boiling above approximately 300 degrees F. Presented at the 47th Annual Meeting of the Society of Toxicology. March 16-20, 2008. Seattle, WA.

84. Murray, FJ (2008) The uncertain world of exposure levels. Presented at the Proposition 65 Clearinghouse Conference. April 4, 2008. San Francisco, CA.
85. Roberts, LG, Gray, T, Marr, MC, Tyl, RW, Trimmer, GW, Hoffman, GM, and Murray, F.J. (2009) Developmental toxicity assessment of inhaled vapors from gasoline and gasoline/MTBE in mice. Presented at the 49th Annual Meeting of the Teratology Society, June 27-July 1, 2009, Rio Grande, Puerto Rico.
86. Roberts, LG, Gray, T, Trimmer, GW, Parker, R, and Murray, F. J. (2009) Developmental toxicity assessment of inhaled vapors from gasoline and fuel oxygenates in rats. Presented at the 49th Annual Meeting of the Teratology Society, June 27-July 1, 2009, Rio Grande, Puerto Rico.
87. Murray, FJ (2009) Keeping Children Safe: Harmonizing Standards for Lead and Phthalates. Presented at the Proposition 65 Clearinghouse Conference. June 1, 2009. San Francisco, CA.
88. Murray, FJ (2010) Proposition 65: What's Different in 2010? Chairperson's address presented at the Proposition 65 Clearinghouse Conference. September 20, 2010. San Francisco, CA.
89. Murray, FJ (2010) Chemical Listings: Regulatory Challenges – What works. Presented at the Proposition 65 Clearinghouse Conference. September 20, 2010. San Francisco, CA.
90. Murray, FJ (2011) Does 4-methylimidazole have tumor preventative activity in the rat? Presented at 37th Annual Summer Meeting of The Toxicology Forum Meeting, July 10-14, 2011, Aspen, CO.
91. Murray, FJ (2011) Strategies for Managing a Company's Risk. Presented at the Proposition 65 Clearinghouse Conference. November 29, 2011. San Francisco, CA.
92. Murray, FJ (2012) Proposition 65: What Works and What Doesn't. Presented at the 51st Annual Meeting of the Society of Toxicology, March 11-15, 2012. San Francisco, CA.
93. Murray, FJ (2012) Overview of Borate Toxicology. Presented at the Workshop on the New Toxicological Evidence of Borate Substances, October 9-10, 2012, Warsaw, Poland.
94. Murray, FJ and Culver, BD (2012) Occupational Exposure Limit and Biological Exposure Limits for Boron Derived from Semen Quality Studies of Chinese

Boron Workers. Presented at the Workshop on the New Toxicological Evidence of Borate Substances, October 9-10, 2012, Warsaw, Poland.

95. Murray, FJ (2012) 4-Methylimidazole: Evaluating the Evidence of Carcinogenicity. Presented at the 33rd Annual European Meeting of The Toxicology Forum, October 23-25, 2012, Brussels, Belgium.
96. Murray, FJ (2014) Insights from Letigen Users: Further Evaluating Caffeine Exposure and Spontaneous Abortion (SAB). Presented at the 40th Annual Meeting of the Toxicology Forum, July 6-10, 2014, Aspen, CO.