

CURRICULUM VITAE
Christopher J. Portier, Ph.D.

Personal Data: Birth Date April 3, 1956
Birthplace Houma, Louisiana

Addresses: 4224 Midvale Ave N.
Seattle, WA
United States
Ph: +1-206-395-3308

Scheibenstrasse 15
CH-3600 Thun
Switzerland
Ph: +41-33-222-28-86

Education:

1981 Ph.D. (Biostatistics), University of North Carolina, Chapel Hill
1979 M.S. (Biostatistics), University of North Carolina, Chapel Hill
1977 B.S. (Mathematics), summa cum laude, Nicholls State University

Employment:

2018-present **Scientific Advisor**, World Health Organization, Environment Program - Europe
2016-present **Scientific Advisor on Pesticide Policies**, multiple European Non-Government Organizations
2013-present **Consultant** to various governmental agencies (multiple countries) and law firms
2013-2014 **Senior Visiting Scientist**, International Agency for Research on Cancer, Lyon, France
2013-present **Senior Contributing Scientist**, Environmental Defense Fund, New York City, NY
2010-2013 **Director**, National Center for Environment Health, Centers for Disease Control and Prevention, Atlanta, GA
2010-2013 **Director**, Agency for Toxic Substances and Disease Registry, Atlanta, GA
2009 – 2010 **Senior Advisor to the Director**, National Institute of Environmental Health Sciences and National Toxicology Program, Research Triangle Park, North Carolina.
2009 – 2010 **Visiting Scientist**, National Research Centre for Environmental Toxicology (EnTox), Queensland, Australia
2006 - 2009 **Associate Director**, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina.
2006 - 2009 **Director, Office of Risk Assessment Research**, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina.
1993 – 2010 **Head, Environmental Systems Biology** (originally Stochastic Modeling), Laboratory of Molecular Toxicology, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina.
2000 - 2006 **Associate Director, National Toxicology Program**, National Institute of Environmental Health Sciences, Division of Intramural Research, Research Triangle Park, North Carolina.

- 2000 - 2006 **Director, Environmental Toxicology Program**, National Institute of Environmental Health Sciences, Division of Intramural Research, Research Triangle Park, North Carolina.
- 2006-2007 **Scientific Advisor to the Director**, Public Health and the Environment Department, World Health Organization, Geneva, Switzerland (detail from NIEHS – four months)
- 1993 - 2005 **Chief, Laboratory of Computational Biology and Risk Analysis** (originally the Laboratory of Quantitative and Computational Biology), National Institute of Environmental Health Sciences, Division of Intramural Research, Research Triangle Park, North Carolina.
- 1996 - 2000 **Associate Director for Risk Assessment**, Environmental Toxicology Program National Institute of Environmental Health Sciences, Division of Intramural Research, Research Triangle Park, North Carolina.
- 1990 - 1993 **Head, Risk Methodology Section**, National Institute of Environmental Health Sciences, Division of Biometry and Risk Assessment, Research Triangle Park, North Carolina.
- 1987, 1992, 1990 **Guest Scientist**, German Cancer Research Center, Heidelberg, Germany.
- 1978 - 1990 **Principal Investigator**, National Institute of Environmental Health Sciences, Division of Biometry and Risk Assessment, Research Triangle Park, North Carolina.
- 1977 **Mathematician**, Computer Sciences Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- 1976 **Undergraduate Research Trainee**, Neutron Physics Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

University Affiliations:

- 2014 – present Visiting Professor, Department of Toxicogenomics, Maastricht University, The Netherlands
- 2013 – 2016 Honorary Professor, National Research Centre for Environmental Toxicology, University of Queensland, Brisbane, Australia
- 2011 – present Adjunct Professor, Department of Environmental Health, Emory University, Atlanta, GA, USA
- 2009 – 2010 Visiting Professor, University of Queensland, Brisbane, Australia
- 1986 - 2007 Adjunct Professor of Biostatistics, University of North Carolina, School of Public Health, Chapel Hill, North Carolina.
- 1990-1992 Adjunct Professor of Statistics, University of Waterloo, Waterloo, Ontario, Canada

Honors & Awards:

- 2016 Elected Fellow, Collegium Ramazzini
- 2013 President’s Dream Green Team Award for “A Human Health Perspective on Climate Change”
- Fellow, World Innovation Foundation, 2006
- Society of Toxicology, Risk Assessment Specialty Section, Paper of the Year, 2006
- Society of Toxicology, Risk Assessment Specialty Section, Paper of the Year, 2005
- Outstanding Risk Practitioner Award, International Society for Risk Analysis, 2000.
- Elected Fellow, International Statistical Institute, 2000.
- Outstanding Performance Award, National Institute of Environmental Health Sciences, numerous dates.

- Commendation for Sustained High Quality Work Performance, National Institute of Environmental Health Sciences, numerous dates.
- Merit Award, National Institute of Health, 1998.
- Board of Publications, Best Paper Award, Society of Toxicology, 1995.
- Distinguished Achievement Award, Section on Statistics and the Environment, American Statistical Association, 1995.
- Spiegelman Award presented by the American Public Health Association to the most outstanding public health statistician under the age of 40, 1995.
- Best-applied statistics paper, Centers for Disease Control, 1993.
- Elected Fellow, American Statistical Association, 1992.
- Elected Foreign Correspondent, Russian National Academy of Natural Sciences, 1992.
- First recipient of the James E. Grizzle Distinguished Alumnus Award, The Department of Biostatistics, The University of North Carolina, 1991.

Professional Societies Membership:

Society of Toxicology, American Public Health Association, International Statistics Institute, Bioelectromagnetics Society

Editorial Activities:

- Editor in Chief - The Open Environmental Journal (2008 to 2010)
- Associate Editor – Frontiers in Predictive Toxicity (2010 to present)
- Associate Editor - Environmental Health Perspectives (1987-2006)
- Associate Editor - Risk Analysis: An International Journal (1989-2003)
- Editorial Board – Environmental and Ecological Statistics (2004-2007)
- Associate Editor – Statistics in Medicine (1998-2002)
- Associate Editor - Biometrics (1997-99)
- Editorial Board Member/Reviewer (different dates): Biometrika, Cancer Research, Communications in Statistics, Fundamental and Applied Toxicology, Journal of Applied Toxicology, Journal of the American Statistical Association, Journal of Toxicology and Environmental Health, Science, Mathematical Biosciences, Journal of Mathematical Biology, Carcinogenesis, Science, PNAS, Toxicological Sciences and others

Advisory & Review Committees:

2019-present	Member, UCSF PHRE Science Response Network
2016-present	Member, World Health Organization Regional Office Europe, Setting research priorities in environment and health
2015 – 2016	Member, Committee to Review the Draft Interagency Report on the Impacts of Climate Change on Human Health in the United States, National Research Council, National Academy of Sciences, USA
2010 – 2016	Member, Science Advisory Group on Electromagnetic Fields and Health, Netherlands Organisation for Health Research and Development
2009 – 2010	Coordinating Lead Author, Interagency Working Group on Climate Change and Health
2009 – 2013	Member, Institute of Medicine Roundtable on Environmental Health Sciences Research and Medicine

2009 – 2012	Member, National Academies of Science Roundtable on Science and Technology for Sustainability
2009	Member, WHO Advisory group on the health implications of the use of DDT to reduce risks of malaria.
2005 – 2010	Chair, Subcommittee on Toxics and Risk, President’s National Council on Science and Technology
1997 - 2012	Advisor, <i>World Health Organization</i> , International Program on Chemical Safety, EMF Project.
2008 – 2010	Member, Environmental Protection Agency, Science Advisory Board
2007 – 2010	Member, International Life Sciences Institute, Health and Environmental Sciences Institute, Subcommittee on Susceptible Populations
2008	Center Review Committee, Canadian National Science and Engineering Research Council Chair in Risk Assessment
2008	Chair, International Agency for Research on Cancer Monographs Advisory Group, Lyon, France
2008	Advisory Group, Center for Environmental Oncology, University of Pittsburgh Cancer Institute
2007.	Chair, WHO Workshop on Low Cost Options for Reducing Exposures to ELF-EMF, Geneva
2007.	Invited Participant, International Program on Chemical Safety Workshop on Aggregate and Cumulative Risk Assessment, Washington, DC.
2006	Rapporteur, International Agency for Research on Cancer, Scientific Advisory Group to Plan Volume 100 of the IARC Monograph Series
2005	Chair, International Agency for Research on Cancer, Scientific Advisory Board on the Preamble to the Cancer Monograph Series
2005	Chair, World Health Organization Expert Panel on Health Criteria Document for Extremely Low Frequency Electric and Magnetic Fields
2003 – 2005	Co-Chair, Subcommittee on Health and Environment, President’s National Council on Science and Technology
2003	Ad-Hoc member, EPA Science Advisory Board, Review of Children’s Cancer Risk Assessment Supplement to Cancer Guidelines
2002 – 2006	Co-Chair, Subcommittee on Mercury, President’s National Council on Science and Technology
2000 – 2007	Member, Finish Academy of Sciences Centers of Excellence Program Science Advisory Committee
2000	Reviewer, <i>Congressional Research Service, Library of Congress</i> ; Research needs relevant to children’s environmental health risks.
1998 - 2004	Member and Chair, <i>Environmental Protection Agency</i> , FIFRA Science Advisory Panel.
1997 - 2006	Member, National Occupational Research Agenda Team, <i>National Institute of Occupational Safety and Health</i> .
1995 - 2000	Advisor, <i>Australian Health Council</i> , Risk Assessment Methodology, Member <i>NHMRC</i> Steering Committee on Cancer Risk Assessment Guidelines.
1992 - 2000	Member, <i>EPA</i> Dioxin Reassessment Working Group.
1985 - 2007	Thesis director for graduate students, Department of Biostatistics, <i>University of North Carolina - Chapel Hill, North Carolina</i> .

- 1997 Advisor, *Netherlands National Health Council*, Risk Assessment Methodology.
- 1997 Reviewer, *Air Force Office of Scientific Research*.
- 1996 - 1997 Temporary Advisor, *World Health Organization*, Expert Committee on Food Additives.
- 1996 Advisor, *Environmental Protection Agency*; Evaluation of the benchmark dose methodology.
- 1996 Advisor, *Environmental Protection Agency*; Evaluation of risks from exposure to PCBs.
- 1996 Expert Review Committee, *Environmental Protection Agency*; Cancer dose-response for PCB's.
- 1995 - 1996 Member, *California Environmental Protection Agency*, Risk Assessment Advisory Committee.
- 1994 - 1997 Science Advisory Panel, *Public Broadcasting System Production* "Poisons in the Womb".
- 1991 - 1995 Ad-Hoc Member, *Environmental Protection Agency*, Science Advisory Panel.

Legislative Hearings:

- Glyphosate Hearing, European Parliament, Brussels, October, 2017
- Glyphosate Carcinogenicity, European Parliament, Brussels, December 2015
- Glyphosate Carcinogenicity, German Parliament, Berlin, July 2015
- Lead and Children's Health, Senate Committee on Environment and Public Works, July, 2012
- Asthma and Children's Health, Senate Committee on Environment and Public Works, May, 2012
- Contaminated Drywall, Senate Committee on Commerce, Science and Transportation, December, 2012.
- Camp Lejeune Contaminated Drinking Water, House Committee on Science and Technology, September, 2010.
- Autism and Vaccines, House Committee on Government Reform, December, 2002.

US Government Service Activities:

- Member, President's Task Force on Environmental Justice 2010-2013
- Member, President's Task Force on Children's Environmental Health 2009-2013
- Member, National Toxicology Program Executive Committee 2010-2013
- Financial Support and International Press Conference for research on "The Health Benefits of Tackling Climate Change" appearing as a series in *Lancet*, November 25, 2009
- Organizing Committee, White House Stakeholder briefing on Climate Change and Human Health, Old Executive Office Building, November 2009.
- Member, US Delegation, World Climate Congress, Geneva (September 2009)
- Member, US Delegation, Global Risk Communication Dialogue (2008-2009)
- Member, NIEHS Corrective Action Plan Management Committee (2008-2009)
- Primary focus, all interagency activities on hazards and risk (2006 to present)
- Co-Organizer, NIEHS/EPA Workshop on Children's Environmental Health, RTP, NC, January, (2007)
- Co-Organizer, NIEHS/NTP Workshop on the Identification of Targets for the HTS Roadmap Project (2007)
- Coordinator, NIEHS/EPA Review of the Children's Environmental Health Centers Program (2006-2007)

- Organizing Committee, Global Environmental Health Initiative, NIEHS (2006 to 2009)
- NIEHS Leadership Council (2005 to 2009)
- Organizer, formal collaborative agreements between NTP and Ramazzini Foundation (2001 to 2006)
- Organizer, formal collaborative agreements between NTP and Korean NTP (2002 to 2006)
- NIEHS Title 42 Review Committee (2003 to 2004)
- NIEHS Executive Committee and Operations Update Committee (2000 to 2005)
- NIEHS Leadership Retreats, DERT Retreats, DIR Retreats (all years since 1997)
- Presenter, NIEHS-sponsored National Academy of Sciences Committee on Emerging Issues in Environmental Health, November, 2001
- Organizer and presenter, National Toxicology Program Executive Committee Meetings (multiple dates since 2000)
- Organizer and presenter, National Toxicology Program Board of Scientific Counselors (multiple dates since 1998)
- Organizer, Joint NIEHS/US Geological Survey Interagency Program on Exposure Assessment, April 2001 to present)
- Organizer, US-Vietnam Scientific Conference on the Health and Environmental Effects of Agent Orange/Dioxin in Vietnam, March, 2002
- Organizing Committee, National Toxicology Program/EPA/FDA Scientific Conference on the Allergenicity of Genetically Modified Food, November, 2001
- NIEHS Town Hall Meeting, Los Angeles California, November, 2001
- NTP Research Directions, NAEHSC, Research Triangle Park, NC. May, 2001.
- NCI Study Section Center Presite Meeting, Seattle, Washington, January, 2001.
- Program committee member, *NIEHS/Colorado State University* conference on the Application of Technology to Chemical Mixture Research, 2001.
- Coordinating Core Committee, National Center for Toxicogenomics, NIEHS, 2000 to present
- Organizer, Joint US-Vietnam Consultation on Research on Agent Orange Health Effects in Vietnam. Singapore, 2000
- *ICCVAM/NICEATM*, Up-and-Down Procedure Peer Review Meeting, 2000.
- Chairman, *NIEHS* Risk Assessment Research Committee, 1995-present.
- Discussant, *NIEHS/PNNL* Workshop on Human Biology Models for Environmental Health Effects, 2000.
- Risk Assessment Coordinator, *NIEHS* US *RAPID* Program for the Evaluation of Health Risks from Exposure to Electric and Magnetic Fields, 1996-99.
- Organizer and Chair, Four Public Comment Sessions on the report of the *NIEHS/DOE* Working Group on the Health Effects of Exposure to Electric and Magnetic Fields, 1998.
- Organizer and Co-Chair, *NIEHS/DOE* Working Group on the Health Effects of Exposure to Electric and Magnetic Fields, 1998.
- Scientific Organizing Committee, *NIEHS* Workshop on Risk Assessment Issues Associated with Endocrine Disrupting Chemicals, 1998.
- Organizer, *NIEHS/DOE* Science Research Symposium on the Health Effects of Exposure to Electric and Magnetic Fields I: Biophysical Mechanisms and *In Vitro* Experimentation, 1998.
- Organizer, *NIEHS/DOE* Science Research Symposium on the Health Effects of Exposure to Electric and Magnetic Fields II: Epidemiological Findings, 1998.
- Organizer, *NIEHS/DOE* Science Research Symposium on the Health Effects of Exposure to Electric and Magnetic Fields III: *In Vitro* and Clinical Research Findings, 1998.
- Head, Toxicokinetics Faculty, *NIEHS*, 1994-97.

- Coordinator/Director, *NIEHS/ATSDR* Interagency Course on Mechanistic Modeling in Environmental Risk Assessment, 1996.
- Organizer, *NIEHS/EPA* Workshop on Research Priorities for New Risk Assessment Guidelines, 1996.
- Co-Organizer, *National Institute of Statistical Sciences, NIEHS/EPA* Workshop on Mechanistic Modeling in Risk Assessment, 1995.
- Scientific Coordinator and Mission Director, *NIEHS* “Mission to Vietnam” to assess the potential for scientific collaboration on the impact of Agent Orange on the Vietnamese Population, 1995.
- Chairman, *NIEHS* Computer Science Focus Group, 1995.
- Discussant, National Toxicology Program Workshop on Mechanistic Modeling in Toxicology, *NIEHS*, 1995.
- Discussant, National Toxicology Program Workshop on Mechanisms of Carcinogenesis, *NIEHS*, 1995.
- Co-Organizer, International Conference on The Role of Cell Proliferation in Carcinogenesis, co-sponsored by *NIEHS, The Chemical Industry Institute of Toxicology, The International Life Sciences Institute* and *The American Industrial Health Council*, 1992.
- Organizer and Director, Scientific Basis of Animal Carcinogenicity Testing, Moscow, Russia, co-sponsored by the *International Agency for Research on Cancer, NIEHS, Health and Welfare Canada* and *The All-Union Cancer Research Center*, 1991.
- Chairman, Computer Technology Advisory Forum, *NIEHS*, 1989.
- Organizer and Director, Design and Analysis of Long-Term Animal Carcinogenicity Experiments, Lyon, France, co-sponsored by the *International Agency for Research on Cancer* and the *NIEHS*, 1988.

Extramural Activities:

- Member, NRC Committee to review the Draft Interagency Report on the Impacts of Climate Change on Human Health in the United States, Washington, DC, 2015
- Expert Scientist, International Agency for Research on Cancer Monograph Meeting on Some Organophosphate Pesticides and Herbicides, Lyon, France, March, 2015
- Overall Chair, International Agency for Research on Cancer Monograph Meeting on Diesel and Gasoline Engine Exhausts and related compounds, Lyon, France, June, 2012
- Advisor to Wellcome Trust at “International Research Futures Symposium on Global Change, Economic Sustainability, and Human Health”, London, England, March, 2012.
- Expert Panel Member for review of Hollings Marine Laboratory, National Oceanographic and Atmospheric Agency, Charleston, USA, February, 2012.
- Chair, Mechanism Subgroup, International Agency for Research on Cancer Monograph Meeting on Radiofrequency Electric and Magnetic Fields, Lyon, France, May, 2011
- Advisor, Greek Ministry Health, Working group on hexavalent chromium in the environment, January, 2011
- Member, WHO Consultation on Human Health Risks from DDT, Geneva, Switzerland, November, 2010
- Associate Editor, *Frontiers in Predictive Toxicity*, 2010 – 2011
- Scientific Advisor, Health Investigation Levels Workshop, Canberra, Australia, January, 2010
- Chair, IARC Working Group, IARC Monograph 100-G, Lyon, France, October, 2009
- Scientific Organizing Committee, VII World Congress on Alternatives and Animal Use in Life Sciences, Rome, Italy, September, 2009
- Chair, Research Directions Working Group, World Health Organization Consultation on Global

- Research on Climate Change and Health, October, 2008.
- Editor-in-Chief, The Open Environment Journal, May 2008-August, 2010
 - Member, EPA Science Advisory Board, July, 2008-present
 - Working Group Member, IARC Monograph 98 - Fire-fighting, Painting and Shift-work, Lyon, France, November, 2007
 - Chair, WHO Extremely Low Frequency Magnetic and Electric Fields Workshop on Intervention Strategies, June, 2007
 - Special Advisor to the Director, Program on Public Health and the Environment, WHO, Geneva, May-July, 2007
 - Member, International Life Sciences Institute Working Group on Susceptible Populations, March, 2007 – present
 - Special Advisor to the Director, Program on Public Health and the Environment, WHO, Geneva, November, 2006-January, 2007
 - Breakout Group Chair, International Workshop on Uncertainty and Variability in PBPK Modeling, RTP, NC USA, October, 2006
 - Member, Health Effects Sciences Institute Committee on Sensitive Subpopulations and Groups, Washington, DC, 2006 to present
 - Rapporteur, Steering Committee for developing the 100th Monograph of the International Agency for Research on Cancer, Lyon, France, September, 2006
 - Co-Organizer, parallel workshops on the advancement of PBPK modeling in risk assessment, Research Triangle Park, November, 2006, Corfu, Greece, April, 2007.
 - Organizer, Alternative Models in Developmental Neurotoxicity, Alexandria, Virginia, March, 2006.
 - Organizer, NTP High Throughput Screening Workshop, Washington, DC, December, 2005
 - Organizer, ISRTP Meeting on Alternative Methods in Toxicology, Baltimore, Maryland, November, 2005
 - Organizer, NTP 25th Anniversary Meeting, Washington, DC, May, 2005
 - Organizer, IPCS/WHO Workgroup on Dose-Response Modeling, Geneva, Switzerland, September, 2004
 - Organizer, Consultation on harmonization of toxicological research between the NTP, Ramazzini Foundation and the European Union, European Congress of Toxicology, Florence, Italy, September, 2003.
 - Member, WHO Workgroup on the epidemiology of cellular phone toxicity, Tskuuba, Japan, September, 2003.
 - Program Committee, 12th International Conference on Global Warming, Boston, Massachusetts, May 2003
 - Program Committee, International Conference on Cancer Risk Assessment, Athens, Greece, August, 2003
 - Chair, WHO Public Consultation on Risk Communication, Luxembourg, February, 2003.
 - Chair, WHO Committee on Establishing a Plan for Implementation of the Precautionary Principle in Risk Management. Luxembourg, February, 2003.
 - Presenter (on behalf of US Government), National Academy of Sciences Panel on the Use of Third Party Toxicity Research with Human Research Participants, December, 2002
 - Member, US Science Delegation, United Nations Environmental Program Consultation on Organic Mercury, September, 2002
 - Science Panel Member, IARC Carcinogenicity Review of ELF-EMF, Lyon, France, June, 2001.
 - Reviewer, Finish Ministry of Health Centers of Excellence Program, Helsinki, April, 2001.

- EPA dioxin reassessment peer review workshop and public comment session, Washington, DC, 2000.
- Organizer: Dioxin Dose-Response Working Group Meeting, Fort Collins, Colorado, February, 2000.
- Chair, Spiegelman Award Committee, *American Public Health Association*, 1998.
- Chair, *Bioelectromagnetics Society* Symposium on the use of Transgenic Animals in Evaluating Health Risks from Exposure to Cellular Phones, St. Petersburg, Florida, 1998.
- Member, *World Health Organization* International Program on Chemical Safety, Workshop on Issues in Cancer Risk Assessment, 1998.
- Advisor, *Joint Committee on Food Additives*, *World Health Organization/Food and Agriculture Organization*. Evaluation of certain food additives and contaminants
- Member, US Government Methylene Chloride Risk Characterization Science Committee, 1996-1998.
- Scientific Organizing Committee, *Colorado State University* Workshop on Biomedical Advances on Chemical Mixtures, 1997.
- *National Academy of Sciences*, Institute of Medicine, Committee on Funding Future Agent Orange Research in Vietnam, 1996.
- Discussant, Workshop on the role of Endocrine Disruptors in Human Health, 1995.
- Advisor to *Australian Health Council* on Risk Assessment Methodology, Member *NHMRC* Steering Committee on Cancer Risk Assessment Guidelines
- Participant, International Program on Chemical Safety of the *World Health Organization* Workshop on Chemical Risk Assessment, London, England, 1995.
- Participant, *IARC* Workshop on Receptor-Mediated Carcinogenesis, Lyon, France, 1994.
- Co-Organizer, Symposium on Quantitative Risk Assessment, *German Cancer Research Center*, Heidelberg, Germany, 1993.
- Participant, *IARC* Monograph on Risk Assessment Methodology, *International Agency for Research on Cancer*, Lyon, France, 1993.
- Thesis advisor for graduate student, *University of Waterloo*, Waterloo, Ontario, Canada. 1991-93.
- Co-Organizer, *Russian Academy of Sciences* Informatics and Cybernetics Research Award, 1992.
- Official Observer, *IARC* Monograph on the Biological Effects of Ultraviolet Radiation, *International Agency for Research on Cancer*, Lyon, France, 1992.
- Member, *International Life Sciences Institute*, Dose-Response Working Group, 1991.
- Participant in Banbury Conference on Human Health Risks from Exposures to Dioxins, Banbury Conference Center, Cold Spring Harbor, New York, 1990.
- Co-Chairman, Session on Biostatistical Developments in Cancer Research, *15th International Cancer Congress*, Hamburg, Germany, 1990.
- Participant in *Environmental Protection Agency* Workshop on Risk Assessment Guidelines, Virginia Beach, Virginia, 1989.

Invited Presentations (present-1999)

“A Comprehensive Analysis of Animal Carcinogenicity Data for Glyphosate”, Coalition on Health and the Environment, Webinar, May 13, 2020

“Data Pertaining to Glyphosate Carcinogenicity“, University of Washington, Seattle, Washington, November, 2018

“From Here to There: How does a Biostatistician Become Director of a National Health Agency”, University of Washington, Seattle, Washington, November, 2018

“Introduction to Cancer Modeling”, Maastricht University, June, 2018

“Data Pertaining to Glyphosate Carcinogenicity“, Utrecht University, April, 2018

- “Glyphosate Cancer Risks and Failure of the Pesticide Regulatory Process”, Utrecht University, April 2018
- “In Vitro to In Vivo Concordance for Toxicity Prediction and Use in Safety Assessments”, Washington, DC, October 2017
- “Glyphosate Cancer Classification”, EAPCCT Meeting, Basel, Switzerland, May, 2017
- “Hide and Seek: Glyphosate Cancer Risks and the European Pesticide Regulatory Process”, Maastricht University, Netherlands, May, 2017
- “Carcinogenicity of Glyphosate: A Systematic Review of the Available Evidence”, European Chemical Agency, November 2016
- “Glyphosate Carcinogenicity”, Swiss Society of Toxicology, Basel, November, 2016
- “Evaluating Health Effects at Toxic Dump Sites”, COST Meeting, Budapest, Hungary, March, 2016
- “Systems Toxicology; Real World Applications”, SwissTox Meeting, Diablerettes, Switzerland, January, 2016
- “Glyphosate Carcinogenicity”, Concerned Scientists of Switzerland Annual Meeting, Zurich, December, 2015
- “Lunch debate in the EU Parliament on Glyphosate”, EU Parliament Building, Brussels, Belgium, December, 2015
- “Should the precautionary principle be invoked for RF-EMF”, BIOEM 2015, Asilomar, CA, USA, June 2015
- “IARC Monograph Review Process and Glyphosate”, Deutscher Bundestag, Berlin, Germany, June 2015
- “The Exposome: Why does it matter for public health?”, Association of Public Health Laboratories, Dr. Katherine Kelly Distinguished Lecture, Indianapolis, USA May 2015
- “A bioinformatics/biostatistics approach to systems toxicology”, Maastricht University, Maastricht, Netherlands, March, 2015
- “Mechanistic Data, Cellular Pathways, and Cancer Classification”, 39th Annual Toxicology Forum Meeting, Washington D.C., USA, January, 2015
- “Current Issues in Environmental Public Health”, Nicholls State University, Thibodaux, LA, April, 2014
- “Review of Approaches to the Quantification of Risks”, International Agency for Research on Cancer, Lyon, France, November, 2013
- “The Gene-Environment-Disease Interactome”, Maastricht University, September, 2013
- “Toxicogenomics and Electromagnetic Fields”, BEMS Annual Meeting, Thessaloniki, Greece, June 2013
- “Toxicogenomics and Risk Assessment”, International Symposium on Toxicogenomics and Human Health, Paris, France, May, 2013
- “Extreme Weather, Climate and Health: Putting Science into Practice”, Climate and Health Conference, Washington, DC, February, 2013
- “Biofuels and Human Health: CDC’s activities”, Our Energy Future and Health, National Academy of Sciences, Washington, DC, USA, January, 2013
- “Global Environmental Health”, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA, January, 2013
- “Addressing Superfund Sites”, SBRP Annual Meeting, Washington, DC, October, 2012
- “The future of cancer risk assessment”, 6th NCC International Symposium- Management of Carcinogenic Hazard: Recent Progress and Future Perspectives, Seoul, Korea, June, 2012
- “ATSDR Reorganization and New Directions”, National Toxicology Program Executive Committee, Washington, DC, May, 2012
- “Hydraulic Fracturing, National Concerns”, Institute of Medicine Roundtable on Environmental Health, Washington, DC, April, 2012.
- “Using Health Impact Assessment to Guide National Policy”, National Health Impact Assessment Meeting, Washington, DC, April, 2012
- “The Great Debate”, Society of Toxicology Meetings, San Francisco, USA, March, 2012.
- “CDC and Environmental Health”, Society of Toxicology Meetings, San Francisco, USA, March, 2012.
- “Keynote Address”, National Climate Assessment Initial Workshop, Charleston, SC, February, 2012.

- “Integration of Climate, Weather and Health”, American Meteorological Society, New Orleans, USA, January, 2012.
- “Biomonitoring and Environmental Health”, CINVESTAV, Mexico Department of Health, Mexico City, Mexico, January, 2012.
- “What is health risk assessment”, International Conference on EMF and Health, Brussels, Belgium, November, 2012.
- “Risks from multiple chemicals in polluted communities”, International Conference on Chemical Mixtures, Wasington, USA, October, 2011.
- “Healthy Homes: The Scientific Support”, National Healthy Homes Conference, Denver, CO, June, 2011
- “Climate Change and Human Health”, Keynote Address, Yale School of Public Health Annual Alumni Day, New Haven, Ct, June, 2011
- “Environmental Public Health”, Keynote Address, International Conference on Sustainable Remediation, Amherst, MA, June, 2011
- “The gene-environment disease interactome for humans”, Society of Toxicology Annual Meeting, Washington, DC, March, 2011
- “Environmental Exposure Science in the 21st Century”, NAS Committee on Human and Environmental Exposure Science in the 21st Century, Washington, DC, February, 2011
- “Human Health Effects and the Impact of Climate Change on Our Oceans”, Annual National Conference on Science, Policy, and the Environment, Washington, Dc, January, 2011
- “A Vision for the National Center for Environmental Health and Agency for Toxic Substances and Disease Registry”, NAS Committee on Emerging Issues in Environmental Health, Washington, DC, December, 2010
- “Predicting Health Risks Using Gene-Expression Data”, EPA NextGEN Workshop, Research Triangle Park, NC, October, 2010
- “Building Sustainable Environments”, NAS Workshop: Pathways to Sustainable Development, Atlanta, GA, September, 2010
- “Future Directions in Environmental Public Health”, State Environmental Health Directors Annual Meeting, Portland, OR, September 2010
- “The gene-environment disease interactome for humans”, AACR Workshop on The Future of Molecular Epidemiology, Miami, Fl, June, 2010
- “Emerging methods for determining chemical hazards”, Keynote Address, Human Health Hazard Indicators Workshop, Sacramento, March, 2010.
- “Dose-response and risk assessment considerations of melamine in infants”, Society of Toxicology Annual Meetings, Sal Lake City, March, 2010
- “The gene-environment disease interactome for humans”, University of Queensland Centre for Clinical Research, Brisbane, Australia, February, 2010
- “Research Needs for Climate Change and Human Health”, Queensland Health and ENTOX, February, 2010
- “Using systems biology to develop the gene-environment disease interactome for humans”, ENTOX, Brisbane, Australia, December, 2009
- “Quantifying the health risks of dioxins and dioxin-like compounds”, ENTOX, January, 2010
- “Epigenetics and its use in toxicology and risk assessment”, Keynote Adress, Australian College of Toxicology and Risk Assessment Annual Meeting, Canberra, December, 2009.
- “The changing shape of regulatory toxicology in the United States”, Office of Chemical Safety & Environmental Health, Canberra, Australia, December, 2009
- “The changing shape of regulatory toxicology in the United States”, NICNAS, Sydney, Australia, December, 2009
- “Development and Use of the Gene-Environment-Disease Interactome for Humans”, 60th Anniversary of the Department of Biostatistics, University of North Carolina, Chapel Hill, NC, October, 2009
- “Using systems biology to develop the gene-environment disease interactome for humans”, Seventh World Congress on Alternatives and Animal Use in Life Sciences, Rome, Italy, September, 2009

- “Use of ‘Omics’ Technologies to Enhance Risk Assessment”, International Workshop on Genomics in Cancer Risk Assessment, Venice, Italy, August, 2009.
- “Proteomics, Genomics and the Human Gene-Environment-Disease Interactome”, First International Radiation Proteomics Workshop, Munich, Germany, May, 2009.
- “Molecular Biology and Regulatory Toxicology”, Society of Toxicology, Annual Meeting, Baltimore, Maryland, March, 2009.
- “Using Modern Research Tools to Enhance Regulatory Toxicology”, SOT Satellite Meeting on Development Of Toxicological And Environmental Public Health Infrastructures In Africa: Understanding The Premise And Mapping The Approach, Baltimore, MD, March 2009.
- “Health Implications of Climate Change”, Navy and Marine Public Health Conference, Norfolk, Va., March, 2009.
- “Climate Change and Minority Health”, Second Annual National Conference on Health Disparities, University of the Virgin Islands, St. Croix, December, 2008.
- “Climate Change and Human Health”, the Environmental Mutagen Society Annual Meetings, Puerto Rico, October, 2008.
- “Climate Change and Human Health”, The Puerto Rico Chamber of Commerce, October, 2008.
- “Using Stem Cells in Environmental Health Research”, California Stem Cells and Predictive Toxicology Initiative Workshop, Berkeley, CA, July, 2008.
- “Developing the Disease-Environment Interactome”, IMBA-FGF Workshop on Developing Omics Technologies to Assess Unclear Risks”, Berlin, Germany, May, 2008
- “Environmental Systems Biology”, 40th Annual Interface Symposium on the interface between computer science and statistics, Durham, NC, May, 2008
- “Environmental causes of childhood leukemia and modern environmental health research”, Summary Address, ICNIRP/WHO/BS Symposium on Research Advances in Childhood Leukemia, Berlin, Germany, May, 2008.
- “Using systems biology as a tool to understand environmental health”, Atlantic Coast Symposium on the Mathematical Sciences in Biology and Medicine, Raleigh, NC, April, 2008.
- “Biological networks and high-throughput screening”, Society of Toxicology, Seattle, Washington, March, 2008.
- “Environment and cancer: strategies for identifying new hazards”. Workshop on the Environment and Cancer, American Cancer Society, Atlanta, Georgia, USA. January, 2008.
- “A systems approach to human health risk assessment”, Environmental Health Sciences Decision Making: Risk Management, Evidence and Ethics. US National Academy of Sciences, Washington, DC, USA. January, 2008.
- “Finding targets for high-throughput screening linking genetics, genomics, pathways and human disease”. NTP Biological Screening Program Seminar Series. January, 2008.
- “The forest for the trees: A systems approach to environmental health research”. Keynote Address, KTL-DEH Center of Excellence Program, Lamalo, Finland. December, 2007.
- “Toxicology for the 21st Century”, ECNIS Research Colloquium, Engelheim, Germany, October, 2007.
- “Evidence-Based Decision Making in Public Health”, First International Workshop on Evidence-Based Toxicology, Cuomo, Italy. October, 2007.
- “Genes, Pathways and Diseases”, World Health Organization Headquarters, Geneva, Switzerland. September, 2007
- “Pharmacokinetics and dynamics of ketamine in horses”, University of Bern, June, 2007
- “Uncertainty and Variability in Risk Assessment”, NAS Workshop on Characterizing Uncertainty: Subgroup on Uncertainty in Estimating Low-Dose Risk from High-Dose Data, June, 2007
- “The utility and interpretation of high-throughput screening data in risk assessment with focus on the NTP programs”, International Workshop on “Evaluating upstream endpoints for improved decision making and risk assessment”, Berkeley, Ca. May, 2007
- “Future directions of risk assessment at the World Health Organization”, International Program for Chemical Safety Harmonization Steering Committee Meeting, Berlin, Germany, May, 2007

- “Chipping away at environmental health risk assessment”, GEMS annual meeting, Research Triangle park, NC, April, 2007
- “The forest for the trees: A systems approach to environmental health”, National Conference on Science, Policy and the Environment, Washington, DC, February, 2007
- “Emerging technologies and their application in risk assessment”, National Research Council Standing Committee on Risk Analysis Issues and Reviews, Washington, DC, December, 2006
- “Stochastic systems biology modeling”, International Congress on Systems Biology, Tokyo, Japan, October, 2006
- “Acceptable risk: environmental health research and public health”, National Symposium on Acceptable Risk in Clinical Medicine, RTP, NC, September, 2006
- “Stochastic Systems Biology”, Society for Industrial and Applied Mathematics Annual Meeting, Raleigh, NC, August, 2006.
- “Identifying and Quantifying Gene Interaction Networks”, Academia Sinica, Taipei, Taiwan, April, 2006.
- “Estimating Health Risks from Environmental Exposures”, Medical School, Cheng Kung National University, Taiwan, April, 2006.
- “Systems Biology and Environmental Health Research”, National Institute of Environmental Studies, Tsukuba, Japan, April, 2006.
- “Cancer Research and Risk Assessment: Looking to the Future”, National Cancer Institute, Japan, April, 2006
- “Cancer Research and Risk Assessment: Looking to the Future”, Keynote Address, Cancer and the Environment Symposium, Duke University, March, 2006
- “Environmental Systems Biology”, Mount St Mary’s College, Maryland, March, 2006.
- “Bioinformatics in High Throughput Screening: A proposal”, ILSI Annual Meeting, Puerto Rico, January, 2006.
- “Gene Regulatory Networks in Cancer Risk Assessment, German Cancer Research Center, Heidelberg, Germany, December, 2005.
- “Alternative Methods in Toxicology; Problems and Solutions”, Keynote Address, Workshop on Alternative Methods in Toxicology, Baltimore, Maryland, November, 2005
- “Future Directions of the National Toxicology Program”, American Public Health Association Annual Meeting, New Orleans, Louisiana, November, 2005.
- “Risk Assessment”, A Mini-Course, University of Finland, Kuopio, Finland, October, 2005.
- “Mechanism-Based Modeling as an Alternative to Animals in Toxicology”, 5th World Conference on Alternatives To Animals Used in the Life Sciences, Berlin, Germany, August, 2005.
- “Environmental Systems Biology”, Toxicology Forum, Aspen, Colorado, July, 2005.
- “Mechanistic Implications of Modifiers of Chemical Toxicity”, Keynote Lecture, Workshop on Modifiers of Chemical Toxicity: Implications for Human Health Risk Assessment, Poros, Greece, June, 2005.
- “Future Directions in Screening for Toxicants”, Committee on the Future of Toxicology, National Academy of Sciences, Washington, DC, May, 2005.
- “Toxicogenomics and the Future of Cancer Risk Assessment”, International Agency for Research on Cancer, Lyon France, May, 2005.
- “Statistical Contributions to Federal Advisory Committees”, Eastern North American Region of the Biometrics Society Annual Meeting, Austin, Texas, March, 2005.
- “The Future of Long-Term Animal Carcinogenicity Studies”, Invited Debate, Society of Toxicology Annual Meetings, New Orleans, Louisiana, March, 2005.
- “Future Directions of the National Toxicology Program”, Society of Toxicology Annual Meetings, New Orleans, Louisiana, March, 2005.
- “Role of the National Toxicology Program in Risk Assessment”, Federal-State Oncology and Risk Analysis Committee, Madison, Wisconsin, October, 2004.
- “Identifying and Quantifying Cancer Risks using Mechanistic Data”, Cancer and The Environment: NCI Science Writers Seminar, National Institutes of Health, Bethesda, Maryland, October, 2004.

- “Toxicogenomics and the Future of Risk Assessment”, Office of Science and Technology Policy, Washington, DC, August, 2004
- “A Vision for the National Toxicology Program”, Toxicology Forum, Aspen, Colorado, June, 2004
- “Health and Environment”, Joint Program on Climate Variability and Human Health, Atlanta, Georgia, March, 2004
- “Dose-Response Analysis of Toxicogenomic Data”, NIEHS Toxicogenomics Faculty, Research Triangle Park, NC, December, 2003.
- “Dose-Response Analysis of Toxicogenomic Data”, DERT Retreat, Southern Pines, NC, December, 2003.
- “Toxicogenomics and the Research Directions of the National Toxicology Program”, Keynote Address, Conference on Toxicology in the 21st Century, Korean Food and Drug Administration, Seoul, Korea, November, 2003.
- “Dioxin and Agent Orange: What is known and what is suspected”, Keynote Address, NCST/NIEHS Conference of Environmental Mediation for Dioxin Soil Contamination, Hanoi, Vietnam, November, 2003.
- “Dose-Response Analysis of Toxicogenomic Data”, NCSU/NIEHS Workshop on Bioinformatics and Risk Assessment, Research Triangle Park, NC, October, 2003.
- “Health Effects of Electric and Magnetic Fields: Current Research Directions”, Joint WHO/Japanese Ministry of Health Public Meeting on Cellular Radiation, Tokyo, Japan, September, 2003.
- “Future Directions in Toxicology and the National Toxicology Program”, NIEHS Public Liaison Meeting, New York City, September, 2003.
- “Chipping Away at Risk Assessment: Genomics, Proteomics, Metabonomics and Cancer Risk Assessment”, Society of Toxicologic Pathology, Savannah, Ga. June, 2003.
- “Cancer Modeling: An Overview”, Statistical Methods in Cancer Research, Radiation Effects Research Foundation, Kyoto, Japan, March, 2003 (presented by H. Toyoshiba due to war in Iraq and US Govt. responsibilities)
- “Statistical methods for evaluating population exposures using CDC’s Environmental Report Card”, CDC, Atlanta, Ga. March, 2003.
- “Bystander Effects in Carcinogenesis”, Society of Toxicology Meetings, Salt Lake City, Utah, March, 2003
- “Validation and use of genetically-modified mouse models as alternatives in carcinogenicity testing”, ILSI Workshop on Genetically Modified Mouse Models, Alexandria, Va., February, 2003.
- “The Future of Genomics in Toxicology”, Mississippi State University, Oxford, Mississippi, February, 2003
- “NIEHS priorities in ecological research”, USGS Director’s Retreat, Washington, DC. January, 2003.
- “The US National Toxicology Program”, Keynote Lecture at Opening Ceremonies for the Korean National Toxicology Program, Seoul, Korea, November, 2002
- “The NIEHS/NTP Initiatives on Alternative Models in Toxicology”, Science Advisory Board Meeting of the Center for the Advancement of Alternatives in Toxicology, Johns Hopkins University, Baltimore, Maryland, November, 2002
- “The Analysis and Interpretation of Two-Stage Liver Bioassays in the Rat”, Workshop on Hepatic Preneoplasia: Quantitative Evaluation in Carcinogenesis Bioassays and Relevance for Human Hepatocarcinogenesis, Heidelberg, Germany, June, 2002
- “Chipping Away at Risk Assessment: Genomics, Proteomics, Metabonomics and Cancer Risk Assessment”, Office of Environmental Health Hazard Assessment, California Department of Health, Sacramento, California, June, 2002
- “Mechanistic Modeling of Stochastic Endpoints”, NIEHS Conference on Future Directions in Biostatistics, Research Triangle Park, North Carolina, May, 2002
- “Mechanistic Models of Skin Carcinogenesis”, North Carolina State University, Raleigh, North Carolina, May, 2002

- “Endocrine Dismodulation and Cancer”, Workshop on Light, Endocrine Systems and Cancer, University of Cologne, Cologne, Germany, May, 2002
- “Mechanism-Based Quantitative Analysis of Carcinogenesis Data”, New York Academy of Sciences, April, 2002.
- “Emerging Issues in Cancer Risk Assessment”, Sunrise Expert Seminar, American Association for Cancer Research Annual Meetings, San Francisco, California, April, 2002
- “Quantitative Evaluation of Health Risks from Dioxin”, Joint US-Vietnam Scientific Conference on the Health and Environmental Effects of Agent Orange/Dioxin in Vietnam, Hanoi, Vietnam, March, 2002
- “Cancer Risk Assessment”, Hanoi Medical School/Vietnam Environmental Protection Agency/Vietnam Ministry of Health Joint Seminar, Hanoi Vietnam, January, 2002
- “Mechanism-Based Modeling of Genomics Data”, University of Berne, Switzerland, October, 2001.
- “Multistage Models of Carcinogenesis”, International Biometrics Conference Satellite Meeting, Fukuoka, Japan, September, 2001. (given by H. Toyoshiba due to conflict in scheduling)
- "Discussion of CDC's Report on Levels of Environmental Contaminants in Human Tissues", National Public Radio Talk of the Nation Science Friday, March, 2001.
- “Mixtures and Models in Environmental Health Risk Assessment”, *NIEHS/Colorado State University* conference on the Application of Technology to Chemical Mixture Research, January, 2001
- “Biological and biophysical research at extremely low- and radio-frequencies”, Forschungsgemeinschaft Funk, Bad Münstereifel, Germany, December 2000.
- “Harmonization of study evaluation and health risk assessment”, 2nd International EMF Seminar, Chinese Ministry of Health, WHO and ICNIRP, Xian, China, October 2000.
- “QRA: extrapolations (animals to humans; high dose low dose)”, First International Course on Scientific Basis of Carcinogen Assessment – Quo Vadis?, NIVA, Naantali, Finland, September 2000.
- “Statistical and biological models and toxicological issues in risk assessment”, Center for Environmental Health Risk Assessment (CERA) workshop on Future Needs in Risk Assessment, Stockholm, Sweden, September 2000.
- “Innovative use of mechanistic considerations in forming quantitative risk assessment models”, Workshop on Future Research For Improving Risk Assessment Methods, National Institute for Occupational Safety and Health, Aspen, Colorado, August 2000.
- “Latest scientific findings on dioxin”, Dioxin Summit, University of California at Berkeley, California, August 2000.
- “Stochastic modeling in carcinogenesis and development”, Virtual Human Workshop, Research Triangle Park, NC. June 2000.
- “Evaluating health risks; methods and examples”, Federal Office for Public Health, Bern, Switzerland. May 2000.
- “Decisions about environmental health risks: What are the key questions and how does this apply to melatonin”, Low frequency EMF, visible light, melatonin and cancer”, International Symposium, University of Cologne and the German Research Society, Cologne, Germany. May 2000.
- “Children's environmental health-risk assessment issues and challenges”, California Environmental Protection Agency, Office of Environmental Health Assessment, Oakland, CA. April 2000.
- “Children’s environmental health risks”, WHO/NIEHS Pacific Rim Meeting on Children’s Health, Manila, April, 2000.
- “Toxicology and environmental health seminar series 2000”, University of Florida, Gainesville, Florida. April 2000.
- “Biologically based population health risk assessment models”, University of Ottawa, Department of Epidemiology and Community Medicine and the Institute of Population Health, Ottawa, Canada. March 2000.
- “Molecular epidemiology: a new tool in cancer prevention”, Applying science to regulatory policy and public health, Keystone Symposium, Taos, New Mexico. February 2000.

- “Statistical methods used for evaluating chemical safety in the environment”, Mathematical Research Institute, Oberwolfach, Germany. February 2000.
- “Mechanism-based mathematical modeling in health risk assessment” NC State University, January, 2000.
- “Methods for analyzing and quantifying EMF health risks”, WHO/ICNIRP scientific meeting, Erice, Sicily, Italy. November 1999.
- “Harmonization of cancer and non-cancer risk assessment”, The Society of Toxicology, Washington, DC. November 1999.
- “Risky business: evaluating the safety of environmental exposures”, Illinois Environmental Health Association, 1999 Annual Education Conference, Peoria, IL. October 1999.
- “Challenges in the use of experimental and epidemiological data in health risk assessment”, Symposium on “Statistical methods in epidemiology and demography”, Department of Biostatistics at the University of North Carolina in Chapel Hill, Chapel Hill, North Carolina. October 1999.
- “Linking toxicokinetics and toxicodynamics in biologically-based dose response models”, Dioxin 99, 19th International Symposium on Halogenated Environmental Organic Pollutants and Persistent Organic Pollutants (POPs), Venice, Italy. September 1999.
- “How did WHO decide on a TDI for dioxin”, Faculty of Environmental Studies in Nagasaki University and the Department of Medical Informatics in Kyushu Medical School, Nagasaki, Japan. September 1999.
- “PBPK Models for Estrogen”, Workshop To Evaluate Research Priorities For Endocrine Active Compound Risk Assessment Methods, CMA, EPA, NIEHS, Research Triangle Park, North Carolina. August 1999.
- “Risk assessment activities in the National Toxicology Program; risk assessment methodology, and mechanistic modeling of endocrine disruptors and dioxins”, Harvard Symposium on Persistent Organic Pollutants (POPs): A Public Health Perspective, Boston, Massachusetts. June 1999.
- “Do extremely low frequency electric and magnetic fields pose a health risk?”, 21st Annual Meeting of the Bioelectromagnetics Society, Long Beach, California. June 1999.
- “Probabilistic assessment of cancer dose response data”, Probabilistic Risk Assessment Workshop, Sarasota, Florida. February 1999.
- “Linking toxicology and epidemiology: the role of mechanistic modeling”, CDC and ATSDR Symposium on Statistical Methods, Emerging Statistical Issues In Public Health For The 21st Century, Atlanta, Georgia. January 1999.
- “Evaluation Of Health Risks From Exposure To Electric And Magnetic Fields; Completion Of A 2-Year Review Process”, Toxicology Round Table, Virginia-Maryland Regional College of Veterinary Medicine, Blacksburg, Virginia. January 1999.

Interagency Agreements and Intramural Research Grants

- US Environmental Protection Agency* (1993-1994). Development and implementation of a mechanistic model for 2,3,7,8-TCDD. \$25K.
- Agency for Toxic Substances and Disease Registry* (1994-1996). Study of the relationship between chemical structure/activity and dose-response shape and magnitude for carcinogens and development of physiologically based pharmacokinetic models for risk assessment. \$796K.
- NIEHS*, Intramural Research Grant (1995-1998). Development of a mechanistic model of the impact of electromagnetic fields on melatonin. \$180K.
- NIEHS*, Interagency Coordinator for Risk Assessment, EMFRAPID Program (1996-1998). Evaluation of potential risks from exposure to electric and magnetic fields. \$2 million.
- US Environmental Protection Agency* (1999). Update to Dose-Response Chapter, Dioxin Reassessment. \$25K.
- NIH*, Office of Research on Minority Health (1999-2002) GIS/Resampling method for evaluating data on environmental justice. \$70K.

Direction of Ph.D. Theses:

- A Bailer. *The effects of treatment lethality on tests of carcinogenicity*. Department of Biostatistics, University of North Carolina, Chapel Hill, North Carolina, 1986.
- P Williams. *Estimating tumor incidence rates using the method of moments and maximum likelihood estimation combined*. Department of Biostatistics, University of North Carolina, Chapel Hill, North Carolina, 1989.
- G Carr. *The analysis of data on adverse reactions to chemicals in developmental toxicology*. Department of Biostatistics, University of North Carolina, Chapel Hill, North Carolina, 1989.
- S Liu. *Estimating parameters in a two-stage model of carcinogenesis using information on enzyme-altered foci from initiation-promotion experiments*. Department of Biostatistics, University of North Carolina, Chapel Hill, North Carolina, 1993.
- CD Sherman. *Multipath/multistage models of carcinogenesis*. Department of Statistics and Actuarial Sciences, University of Waterloo, Waterloo, Ontario, Canada, 1994.
- C Lyles. *Cell labeling data: Models and parameter estimation*. Department of Biostatistics, University of North Carolina, Chapel Hill, North Carolina, 1995.
- F Ye. *The equal slopes test for benchmark doses*. Department of Biostatistics, University of North Carolina, Chapel Hill, North Carolina, 2001
- S Whitaker. *Development of a biologically-based mathematical model of fetal development*. Department of Mathematics, North Carolina State University, Raleigh, North Carolina, 2000.
- R Helms. *Homeostatic feedback control of growth on multistage cancer models*. Department of Biostatistics, University of North Carolina, Chapel Hill, North Carolina, 2001.

Journal Articles: (peer reviewed)

1. Portier CJ: A comprehensive analysis of the animal carcinogenicity data for glyphosate from chronic exposure rodent carcinogenicity studies. *Environmental Health* 2020, 19(1):18.
2. Robinson, C., Portier, C., Čavoški, A., Mesnage, R., Roger, A., Clausing, P., Whaley, P., Muilerman, H., Lyssimachou, A.: **Achieving a High Level of Protection from Pesticides in Europe: Problems with the Current Risk Assessment Procedure and Solutions**, *European Journal of Risk Regulation* 2020, 1-31
3. Krewski D, Rice JM, Bird M, Milton B, Collins B, Lajoie P, Billard M, Grosse Y, Coglianò VJ, Caldwell JC *et al*: **Concordance between sites of tumor development in humans and in experimental animals for 111 agents that are carcinogenic to humans**. *Journal of toxicology and environmental health Part B, Critical reviews* 2019, **22**(7-8):203-236.
4. Alexeeff, S. E., A. Roy, J. Shan, X. Liu, K. Messier, J. S. Apte, C. Portier, S. Sidney and S. K. Van Den Eeden (2018). "High-resolution mapping of traffic related air pollution with Google street view cars and incidence of cardiovascular events within neighborhoods in Oakland, CA." *Environ Health* **17**(1): 17-38.
5. Messier, K. P., Chambliss, S. E., Choi, J. J., Roy, A., Marshall, J. D., Brauer, M., Szpiro, A. A., Portier, C. J., Lunden, M. M., Kerckhoffs, J., Vermeulen, R. C. H., Hamburg, S. P., Apte, J. S., Mapping Air Pollution with Google Streetview Cars: Efficient Approaches with Mobile Monitoring and Land Use Regression, *Environmental Science and Technology*, October, 2018

6. Espín-Pérez, A., Portier, C. J., Chadeau-Hyam, M., van Veldhoven, K., Kleinjans, J., de Kok, T., Comparison of statistical methods and the use of quality control samples for batch effect correction in human transcriptome data, *PLOS One* 13(8), 2018
7. Apte, JS, Messier, KP, Gani, S, Brauer, M, Kirchstetter, TW, Lunden, MM, Marshall, JD, Portier, CJ, Vermeulen, RCH, Hamburg, S., High-Resolution Air Pollution Mapping with Google Streetview Cars: Exploiting Big Data, *Environmental Science and Technology* 2017, **51** (12) 6999-7008
8. Sand S, Parham F, Portier CJ, Tice RR, Krewski D. Comparison of Points of Departure for Health Risk Assessment Based on High-Throughput Screening Data. *Environ Health Perspect* (2017) **125** (4) 623-633 . doi: 10.1289/EHP408. PubMed PMID: 27384688.
9. Cote I, Andersen ME, Ankley GT, Barone S, Birnbaum LS, Boekelheide K, et al. The Next Generation of Risk Assessment Multi-Year Study-Highlights of Findings, Applications to Risk Assessment, and Future Directions. *Environ Health Perspect* (2016) **124**(11):1671-82. doi: 10.1289/EHP233. PubMed PMID: 27091369; PubMed Central PMCID: PMC5089888.
10. Parham F, Portier CJ, Chang X, Mevissen M. The Use of Signal-Transduction and Metabolic Pathways to Predict Human Disease Targets from Electric and Magnetic Fields Using in vitro Data in Human Cell Lines. *Frontiers in public health* (2016) **4**:193. doi: 10.3389/fpubh.2016.00193. PubMed PMID: 27656641; PubMed Central PMCID: PMC5013261.
11. Portier CJ, Armstrong BK, Baguley BC, Baur X, Belyaev I, Belle R, et al. Differences in the carcinogenic evaluation of glyphosate between the International Agency for Research on Cancer (IARC) and the European Food Safety Authority (EFSA). *Journal of epidemiology and community health* (2016) **70**(8):741-5. doi: 10.1136/jech-2015-207005. PubMed PMID: 26941213; PubMed Central PMCID: PMC4975799.
12. Scinicariello F, Portier C. A simple procedure for estimating pseudo risk ratios from exposure to non-carcinogenic chemical mixtures. *Archives of toxicology* (2016) **90**(3):513-23. doi: 10.1007/s00204-015-1467-z. PubMed PMID: 25667015.
13. Smith MT, Guyton KZ, Gibbons CF, Fritz JM, Portier CJ, Rusyn I, et al. Key Characteristics of Carcinogens as a Basis for Organizing Data on Mechanisms of Carcinogenesis. *Environ Health Perspect* (2016) **124**(6):713-21. doi: 10.1289/ehp.1509912. PubMed PMID: 26600562; PubMed Central PMCID: PMC4892922.
14. McPartland, J., Dantzker, H.C., Portier, C. J. Building a robust 21st century chemical testing program at the U.S. Environmental Protection Agency: recommendations for strengthening scientific engagement, *Environ Health Perspect* 2015. 123 (1): p. 1-5.
15. Smith, M.T., Gibbons, C.F., Fritz, J.M., Rusyn, I., Lambert, P., Kavlock, R., Hecht, S.S., Bucher, J., Caldwell, J.C., Demarini, D., Cogliano, V., Portier, C., Paan, R., Straif, K., Guyton, K.Z., Key Characteristics of Carcinogens and an Approach to using Mechanistic Data in their Classification, *Environ Health Perspect* 2015 (in press)

16. Thomas, R., Thomas, R.S., Auerbach, S. S., Portier, C. J., Biological networks for predicting chemical hepatocarcinogenicity using gene expression data from treated mice and relevance across human and rat species. *PLoS One*, 2013. **8**(5): p. e63308.
17. Scinicariello, F., Buser, M.C., Mevissen, M., Portier, C.J., Blood lead level association with lower body weight in NHANES 1999-2006. *Toxicol Appl Pharmacol*, 2013. **273**(3): p. 516-23.
18. Thomas R, Portier CJ., Gene Expression Networks, *Methods Mol Biol*. 2013;930:165-78.
19. Aylward LL, Kirman CR, Schoeny R, Portier CJ, Hays SM., Evaluation of Biomonitoring Data from the CDC National Exposure Report in a Risk Assessment Context: Perspectives across Chemicals. *Environ Health Perspect*. 2012 **121** (3)
20. Sand, S., Portier, C.J., Krewski, D. A Signal-to-noise crossover dose as the point of departure for risk assessment. *Environmental Health Perspectives*. 119(12):1766-74, 2011
21. Gohlke, J.M., Thomas, R., Woodward, A., Campbell-Lundrum, D., Pruss-Ustun, A., Hales, S., Portier, C.J. Estimating the global public health implications of electricity and coal consumption. *Environmental Health Perspectives* 2011 **119** (6): 821-6
22. McHale CM, Zhang L, Lan Q, Vermeulen R, Li G, Hubbard AE, Porter KE, Thomas R, Portier CJ, Shen M, Rappaport SM, Yin S, Smith MT, Rothman N. Global gene expression profiling of a population exposed to a range of benzene levels. *Environ Health Perspect*. 2011 May;119(5):628-34.
23. Prause AS, Guionaud CT, Stoffel MH, Portier CJ, Mevissen M. Expression and function of 5-hydroxytryptamine 4 receptors in smooth muscle preparations from the duodenum, ileum, and pelvic flexure of horses without gastrointestinal tract disease. *Am J Vet Res*. 2010 Dec;71(12):1432-42.
24. Luke, N.S., DeVito, M.J., Portier, C.J., El-Masri, H.A., Employing a mechanistic model for the MAPK pathway to examine the impact of cellular all-or-none behavior on overall tissue response, *Dose-Response* 2010 **8**(3): 347-67.
25. Crump, KS, Chen, C., Chiu, W.A., Louis, T.A., Portier, C. J., Subramaniam, R.P., Wgite, P.D., What role for biologically-based Dose-Response Models in Estimating Low-Dose Risk. *Env. Health Persp*. 2010 **118**(5):585-8
26. Parham F, Austin C, Southall N, Huang R, Tice R, Portier C. Dose-Response modeling of High-Throughput Screening Data. *J Biomol Screen*. 2009 **14**(10), 1216-27
27. Hines RN, Sargent D, Autrup H, Birnbaum LS, Brent RL, Doerrer NG, Cohen Hubal EA, Juberg DR, Laurent C, Luebke R., Olejniczak K, Portier CJ, Slikker W. Approaches for assessing risks to sensitive populations: lessons learned from evaluating risks in the pediatric population. *Tox. Sci*. 2010 **113** (4), 4-26.
28. Portier, C. Toxicological decision making on hazards and risks – status quo and the way forward: current concepts and schemes of science-driven decision making – an overview. *Human and Experimental Toxicology* 2009 **28**(2-3), 123-125
29. Prause, A.S., Stoffel, M.H., Portier, C.J., Mevissen, M., Expression and function of 5-HT7 receptors in smooth muscle preparation from equine duodenum, ileum, and pelvic flexure, *Research in Veterinary Science* 2009 **87**(2), 292-299

30. Boyd, W.A., Smith, M. V., Kissling, G. E., Rice, J., R., Snyder, D. W., Portier, C. J., Freedman, J. H. Application of a Mathematical Model to Describe the Effects of Chlorpyrifos on *Caenorhabditis elegans* Development, *PLoS ONE* 2009 **4**(9): e7024. doi:10.1371/journal.pone.0007024
31. Smith MV, Boyd WA, Kissling GE, Rice JR, Snyder DW, et al. A Discrete Time Model for the Analysis of Medium-Throughput *C. elegans* Growth Data. *PLoS ONE* 2009 **4**(9): e7018. doi:10.1371/journal.pone.0007018
32. Gohlke, J. M., Stockton, P.S., Sieber, S., Foley, J., Portier, C. J. AhR-mediated gene expression in the developing mouse telencephalon. *Reproductive Toxicology* 2009 **28** (3)
33. Thomas, R., Gohlke, J., Parham, F., Smith, M., Portier, C. (2009) Choosing the right path: enhancement of biologically-relevant sets of genes or proteins using pathway structure. *Genome Biology* 2009 **10**(4), R44.
34. Julia M Gohlke, Reuben Thomas, Yonqing Zhang, Michael C Rosenstein, Allan P Davis, Cynthia Murphy, Carolyn J Mattingly, Kevin G Becker, Christopher J Portier, Genetic and Environmental Pathways to Complex Disease. *BMC Systems Biology* 2009 May 5, 3:46.
35. Schmitz, A., Portier, C. J., Thurmann, W., Theurillat, R., Mevissen, M. Stereoselective biotransformation of ketamine in equine liver and lung microsomes. *J. Vet. Pharm. And Therapeutics* 2008 **31** (5): 446-455
36. Xia, M; Huang, R; Witt, KL; Southall, N; Fostel, J; Cho, MH; Jadhav, A; Smith, CS; Inglese, J; Portier, CJ; Tice, RR; Austin, CP Compound cytotoxicity profiling using quantitative high-throughput screening. *Env. Health Perspectives* 2008 **116** (3): 284-291
37. Gohlke, J. M., Armant, O., Parham, F., M., Smith, M., V., Zimmer, C., Castro, D., S., Nguyen, L., Parker, J., S., Gradwohl, G., Guillemot, F., Portier, C. J. Characterization of proneural gene regulatory network during mouse telencephalon development., *BMC Biology* 2008 **6** (15)
38. Subramaniam, R. P., Chen, C., Crump, K. S., Devoney, D., Fox, J., F., Portier, C. J., Schlosser, P. M., Thompson, C. M., White, P. Uncertainties in Biologically-based modeling of formaldehyde-induced respiratory cancer risk: Identification of key issues. *Risk Analysis* 2008 **28**(4): 907-923
39. Buehler, M., Steiner, A., Meylan, M., Portier, C. J., and Mevissen, M., In vitro effects of bethanechol on smooth muscle preparations obtained from abomasal fundus, corpus and antrum of dairy cows. *Research in Vet. Sci.* **2008 84** (3), 444-451
40. Barton, H.A., W.A. Chiu, R.W. Setzer, M.E. Andersen, A.J. Bailer, F.Y. Bois, R.S. Dewoskin, S. Hays, G. Johanson, N. Jones, G. Loizou, R.C. Macphail, C.J. Portier, M. Spendiff, and Y.M. Tan, Characterizing Uncertainty and Variability in Physiologically-based Pharmacokinetic (PBPK) Models: State of the Science and Needs for Research and Implementation. *Toxicol Sciences* 2007 **99** (2) 395-402.
41. Pfeiffer, J.B., M. Mevissen, A. Steiner, C.J. Portier, and M. Meylan, In vitro effects of bethanechol on specimens of intestinal smooth muscle obtained from the duodenum and jejunum of healthy dairy cows. *Am J Vet Res*, 2007. **68**(3): p. 313-22.

42. Smith, M., Miller, C., Kohn, M., Walker, N.J., Portier, C. J., Absolute estimation of initial concentrations of amplicon in a real-time PT-PCR process, *BMC Bioinformatics* 2007 **8**(1), 409
43. Toyoshiba, H., Sone, H., Yamanaka, T., Parham, F., Irwin, R., Boorman, G., and Portier, C. Gene network analysis suggests differences between high and low doses of acetaminophen. *Toxicology and Applied Pharmacology* 2006 **215** (3), 306-316
44. Knobloch M, [Portier CJ](#), [Levionnois OL](#), [Theurillat R](#), [Thormann W](#), [Spadavecchia C](#), [Mevissen M](#). Antinociceptive effects, metabolism and disposition of ketamine in ponies under target-controlled drug infusion. *Toxicology And Applied Pharmacology* 2005 **216** (3): 373-386
45. Portier, C.J., H. Toyoshiba, H. Sone, F. Parham, R.D. Irwin, and G.A. Boorman, Comparative analysis of gene networks at multiple doses and time points in livers of rats exposed to acetaminophen. *Altex* 2005 **23 Suppl**: p. 380-4.
46. Resnik, D.B. and C. Portier, Pesticide testing on human subjects: weighing benefits and risks. *Environ Health Perspect.* 2005 **113**(7): p. 813-7.
47. Walker, N. J., Crockett, P. W., Nyska, A., Brix, A. E., Jokinen, M. P., Sells, D. M., Hailey, J. R., Easterling, M., Haseman, J. K., Yin, M., Wyde, M. E., Bucher, J. R., and Portier, C. J. Dose-additive carcinogenicity of a defined mixture of "dioxin-like compounds". *Environ Health Perspect* 2005 **113**, 43-48.¹
48. Boorman, G. A., Irwin, R. D., Vallant, M. K., Gerken, D. K., Lobenhofer, E. K., Hejtmancik, M. R., Hurban, P., Brys, A. M., Travlos, G. S., Parker, J. S., and Portier, C. J. Variation in the hepatic gene expression in individual male Fischer rats. *Toxicol Pathol* 2005 **33**, 102-110.
49. Toyoshiba, H., Walker, N.J., Bailer, A.J. and Portier, C.J. Evaluation of toxic equivalency factors for induction of cytochromes P450 CYP1A1 and CYP1A2 enzyme activity by dioxin-like compounds. *Toxicol Appl Pharmacol* 2004 **194**, 156-68.
50. Trachsel, D., Tschudi, P., Portier, C.J., Kuhn, M., Thormann, W., Scholtysik, G. and Mevissen, M. Pharmacokinetics and pharmacodynamic effects of amiodarone in plasma of ponies after single intravenous administration. *Toxicology and Applied Pharmacology* 2004, **195**, 113-125.
51. Bucher, J. R., and Portier, C. Human carcinogenic risk evaluation, Part V: The national toxicology program vision for assessing the human carcinogenic hazard of chemicals. *Toxicol Sci* 2004 **82**, 363-366.
52. Germolec, D. R., Kashon, M., Nyska, A., Kuper, C. F., Portier, C., Kommineni, C., Johnson, K. A., and Luster, M. I. The accuracy of extended histopathology to detect immunotoxic chemicals. *Toxicol Sci* 2004 **82**, 504-514.
53. Germolec, D. R., Nyska, A., Kashon, M., Kuper, C. F., Portier, C., Kommineni, C., Johnson, K. A., and Luster, M. I.. Extended histopathology in immunotoxicity testing: interlaboratory validation studies. *Toxicol Sci* 2004 **78**, 107-115.

¹ Awarded outstanding published paper in 2005 by the Risk Assessment Specialty Section of the Society of Toxicology

54. Shelby, M., Portier, C., Goldman, L., Moore, J., Iannucci, A., Jahnke, G., and Donkin, S.. NTP-CERHR expert panel report on the reproductive and developmental toxicity of methanol. *Reprod Toxicol* 2004 18, 303-390.
55. Smith, M. V., Nyska, A., and Portier, C. Application of a statistical dynamic model investigating the short-term cellular kinetics induced by riddelliine, a hepatic endothelial carcinogen. *Toxicol Sci* 2004 80, 258-267.
56. Toyoshiba, H., Yamanaka, T., Sone, H., Parham, F. M., Walker, N. J., Martinez, J., and Portier, C. J. Gene interaction network suggests dioxin induces a significant linkage between aryl hydrocarbon receptor and retinoic acid receptor beta. *Environ Health Perspect* 2004 112, 1217-1224.²
57. Yamanaka, T., Toyoshiba, H., Sone, H., Parham, F. M., and Portier, C. J. The TAO-Gen algorithm for identifying gene interaction networks with application to SOS repair in *E. coli*. *Environ Health Perspect* 2004 112, 1614-1621
58. Schecter, A., Lucier, G. W., Cunningham, M. L., Abdo, K. M., Blumenthal, G., Silver, A. G., Melnick, R., Portier, C., Barr, D. B., Barr, J. R., Stanfill, S. B., Patterson, D. G., Jr., Needham, L. L., Stopford, W., Masten, S., Mignogna, J., and Tung, K. C. Human consumption of methyleugenol and its elimination from serum. *Environ Health Perspect* 2004 112, 678-680.
59. Bucher, J and Portier, C. Human carcinogenic risk evaluation, Part V: The national toxicology program vision for assessing the human carcinogenic hazard of chemicals. *Toxicol Sci.* 2004 Dec;82(2):363-6
60. Chhabra, R.S., Bucher, J.R., Wolfe, M. and Portier, C. Toxicity characterization of environmental chemicals by the US National Toxicology Program: an overview. *Int J Hyg Environ Health*, 2003 206, 437-45.
61. Germolec, D.R., Nyska, A., Kashon, M., Kuper, C.F., Portier, C., Kommineni, C., Johnson, K.A. and Luster, M.I. Extended Histopathology in Immunotoxicity Testing: Interlaboratory Validation Studies. *Toxicol Sci.* 2003 78(1) 107-115
62. Koken, P.J., Piver, W.T., Ye, F., Elixhauser, A., Olsen, L.M. and Portier, C.J. Temperature, air pollution, and hospitalization for cardiovascular diseases among elderly people in Denver. *Environ Health Perspect* 2003 111, 1312-7.
63. Whitaker, S.Y., Tran, H.T. and Portier, C.J. (2003) Development of a biologically-based controlled growth and differentiation model for developmental toxicology. *J Math Biol*, 46, 1-16.
64. Hauser, D.S., Mevissen, M., Weiss, R., Portier, C.J., Scholtysik, G., Studer, U.E. and Danuser, H. Effects of ketanserin and DOI on spontaneous and 5-HT-evoked peristalsis of the pig ureter in vivo. *Br J Pharmacol* 2002 135, 1026-32.
65. Kim, A.H., Kohn, M.C., Portier, C.J. and Walker, N.J. Impact of physiologically based pharmacokinetic modeling on benchmark dose calculations for TCDD-induced biochemical responses. *Regul Toxicol Pharmacol* 2002 36, 287-96.

² Awarded outstanding published paper in 2004 by the Risk Assessment Specialty Section of the Society of Toxicology

66. Kohn, M.C., Melnick, R.L., Ye, F. and Portier, C.J. Pharmacokinetics of sodium nitrite-induced methemoglobinemia in the rat. *Drug Metab Dispos* 2002, *30*, 676-83.
67. Koo, J.W., Parham, F., Kohn, M.C., Masten, S.A., Brock, J.W., Needham, L.L. and Portier, C.J. The association between biomarker-based exposure estimates for phthalates and demographic factors in a human reference population. *Environ Health Perspect* 2002, *110*, 405-10.
68. Parham, F.M., Matthews, H.B. and Portier, C.J. A physiologically based pharmacokinetic model of p,p'-dichlorodiphenylsulfone. *Toxicol Appl Pharmacol* 2002, *181*, 153-63.
69. Portier, C.J. Endocrine dismodulation and cancer. *Neuroendocrinol Lett* 2002, *23 Suppl 2*, 43-7.
70. Simmons, P.T. and Portier, C.J. Toxicogenomics: the new frontier in risk analysis. *Carcinogenesis* 2002, *23*, 903-5.
71. Weiss, R., Mevissen, M., Hauser, D.S., Scholtysik, G., Portier, C.J., Walter, B., Studer, U.E. and Danuser, H. Inhibition of human and pig ureter motility in vitro and in vivo by the K(+) channel openers PKF 217-744b and nicorandil. *J Pharmacol Exp Ther* 2002, *302*, 651-8.
72. Whitaker, S.Y. and Portier, C. A controlled growth and differentiation model for non-monotonic dose-response. *Human and Ecological Risk Assessment* 2002, *8*, 1739-1755.
73. Kohn, M.C., Walker, N.J., Kim, A.H. and Portier, C.J. Physiological modeling of a proposed mechanism of enzyme induction by TCDD. *Toxicology* 2001, *162*, 193-208.
74. Mevissen, M., Denac, H., Schaad, A., Portier, C.J. and Scholtysik, G. Identification of a cardiac sodium channel insensitive to synthetic modulators. *J Cardiovasc Pharmacol Ther* 2001, *6*, 201-12.
75. Portier, C.J. Linking toxicology and epidemiology: the role of mechanistic modeling. *Stat Med* 2001, *20*, 1387-93.
76. Willems, B.A., Melnick, R.L., Kohn, M.C. and Portier, C.J. A physiologically based pharmacokinetic model for inhalation and intravenous administration of naphthalene in rats and mice. *Toxicol Appl Pharmacol* 2001, *176*, 81-91.
77. Ye, F., Piver, W.T., Ando, M. and Portier, C.J. Effects of temperature and air pollutants on cardiovascular and respiratory diseases for males and females older than 65 years of age in Tokyo, July and August 1980-1995. *Environ Health Perspect* 2001, *109*, 355-9.
78. Halmes, N.C., Roberts, S.M., Tolson, J.K. and Portier, C.J. Reevaluating cancer risk estimates for short-term exposure scenarios. *Toxicol Sci* 2000, *58*, 32-42.
79. Kohn, M.C., Parham, F., Masten, S.A., Portier, C.J., Shelby, M.D., Brock, J.W. and Needham, L.L. Human exposure estimates for phthalates. *Environ Health Perspect* 2000, *108*, A440-2.
80. Portier, C.J. and Parham, F.M. Comments on a biochemical model of cyclophosphamide hematotoxicity. *J Toxicol Environ Health A* 2000, *61*, 525-8.

81. Portier, C., Sherman, C.D. and Kopp-Schneider, A. Multistage, stochastic models of the cancer process: a general theory for calculating tumor incidence. *Stochastic Environmental Research and Risk Assessment* 2000, *14*, 173-179.
82. Sherman, C.D. and Portier, C.J. Calculation of the cumulative distribution function of the time to a small observable tumor. *Bull Math Biol* 2000, *62*, 229-40.
83. Smith, M.V. and Portier, C.J. Incorporating observability thresholds of tumors into the two-stage carcinogenesis model. *Math Biosci* 2000, *163*, 75-89.
84. Tritscher, A.M., Mahler, J., Portier, C.J., Lucier, G.W. and Walker, N.J. Induction of lung lesions in female rats following chronic exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicol Pathol* 2000, *28*, 761-9.
85. Walker, N.J., Tritscher, A.M., Sills, R.C., Lucier, G.W. and Portier, C.J. Hepatocarcinogenesis in female Sprague-Dawley rats following discontinuous treatment with 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicol Sci* 2000, *54*, 330-7.
86. Andersen, M.E., Conolly, R.B., Faustman, E.M., Kavlock, R.J., Portier, C.J., Sheehan, D.M., Wier, P.J. and Ziese, L. Quantitative mechanistically based dose-response modeling with endocrine-active compounds. *Environ Health Perspect* 1999, *107 Suppl 4*, 631-8.
87. el Masri, H. and Portier, C. Replication potential of cells via the protein kinase C-MAPK pathway: application of a mathematical model. *Bulletin of Mathematical Biology* 1999, *61*, 379-398.
88. El-Masri, H.A., Bell, D.A. and Portier, C.J. Effects of glutathione transferase theta polymorphism on the risk estimates of dichloromethane to humans. *Toxicol Appl Pharmacol* 1999, *158*, 221-30.
89. Melnick, R.L., Sills, R.C., Portier, C.J., Roycroft, J.H., Chou, B.J., Grumbein, S.L. and Miller, R.A. Multiple organ carcinogenicity of inhaled chloroprene (2-chloro-1,3-butadiene) in F344/N rats and B6C3F1 mice and comparison of dose-response with 1,3-butadiene in mice. *Carcinogenesis* 1999, *20*, 867-78.
90. Piver, W.T., Ando, M., Ye, F. and Portier, C.J. Temperature and air pollution as risk factors for heat stroke in Tokyo, July and August 1980-1995. *Environ Health Perspect* 1999, *107*, 911-6.
91. Walker, N.J., Portier, C.J., Lax, S.F., Crofts, F.G., Li, Y., Lucier, G.W. and Sutter, T.R. Characterization of the dose-response of CYP1B1, CYP1A1, and CYP1A2 in the liver of female Sprague-Dawley rats following chronic exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Toxicol Appl Pharmacol* 1999, *154*, 279-86.
92. El-Masri, H.A. and Portier, C.J. Physiologically based pharmacokinetics model of primidone and its metabolites phenobarbital and phenylethylmalonamide in humans, rats, and mice. *Drug Metab Dispos* 1998, *26*, 585-94.
93. Jung, D., Berg, P.A., Edler, L., Ehrental, W., Fenner, D., Flesch-Janys, D., Huber, C., Klein, R., Koitka, C., Lucier, G., Manz, A., Muttray, A., Needham, L., Papke, O., Pietsch, M., Portier, C., Patterson, D., Prellwitz, W., Rose, D.M., Thews, A. and Konietzko, J. Immunologic findings in workers formerly exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin and its congeners. *Environ Health Perspect* 1998, *106 Suppl 2*, 689-95.

94. Kopp-Schneider, A., Portier, C. and Bannasch, P. A model for hepatocarcinogenesis treating phenotypical changes in focal hepatocellular lesions as epigenetic events. *Math Biosci* 1998, *148*, 181-204.
95. Murrell, J.A., Portier, C.J. and Morris, R.W. Characterizing dose-response: I: Critical assessment of the benchmark dose concept. *Risk Anal* 1998, *18*, 13-26.
96. Parham, F.M. and Portier, C.J. Using structural information to create physiologically based pharmacokinetic models for all polychlorinated biphenyls. II. Rates of metabolism. *Toxicol Appl Pharmacol* 1998, *151*, 110-6.
97. Portier, C.J. and Bell, D.A. Genetic susceptibility: significance in risk assessment. *Toxicol Lett* 1998, *102-103*, 185-9.
98. Portier, C.J. and Ye, F. U-shaped dose-response curves for carcinogens. *Hum Exp Toxicol* 1998, *17*, 705-7; discussion 716-8.
99. Sherman, C.D. and Portier, C.J. Eyes closed: simple, intuitive, statistically sound, and efficient methods for estimating parameters of clonal growth cancer models. *Risk Anal* 1998, *18*, 529-34.
100. Blumenthal, G.M., Kohn, M.C. and Portier, C.J. A mathematical model of production, distribution, and metabolism of melatonin in mammalian systems. *Toxicol Appl Pharmacol* 1997, *147*, 83-92.
101. Gaido, K.W., Leonard, L.S., Lovell, S., Gould, J.C., Babai, D., Portier, C.J. and McDonnell, D.P. Evaluation of chemicals with endocrine modulating activity in a yeast-based steroid hormone receptor gene transcription assay. *Toxicol Appl Pharmacol* 1997, *143*, 205-12.
102. Parham, F.M., Kohn, M.C., Matthews, H.B., DeRosa, C. and Portier, C.J. Using structural information to create physiologically based pharmacokinetic models for all polychlorinated biphenyls. *Toxicol Appl Pharmacol* 1997, *144*, 340-7.
103. Portier, C. and el Masri, H. Statistical research needs in mechanistic modeling for carcinogenic risk assessment. *Stat Methods Med Res* 1997, *6*, 305-15.
104. Sherman, C.D. and Portier, C.J. The two-stage model of carcinogenesis: overcoming the nonidentifiability dilemma. *Risk Anal* 1997, *17*, 367-74.
105. Buchanan, J.R. and Portier, C.J. The use of data on biologically reactive intermediates in risk assessment. *Adv Exp Med Biol* 1996, *387*, 429-37.
106. Bucher, J.R., Portier, C.J., Goodman, J.I., Faustman, E.M. and Lucier, G.W. Workshop overview. National Toxicology Program Studies: principles of dose selection and applications to mechanistic based risk assessment. *Fundam Appl Toxicol* 1996, *31*, 1-8.
107. Kohn, M.C., Sewall, C.H., Lucier, G.W. and Portier, C.J. A mechanistic model of effects of dioxin on thyroid hormones in the rat. *Toxicol Appl Pharmacol* 1996, *136*, 29-48.
108. Luster, M.I., Portier, C., Simeonova, P. and Munson, A.E. Relationship between chemical-induced immunotoxicity and carcinogenesis. *Drug Information Journal* 1996, *30*, 281-286.

109. Melnick, R.L., Kohn, M.C. and Portier, C.J. Implications for risk assessment of suggested nongenotoxic mechanisms of chemical carcinogenesis. *Environ Health Perspect* 1996, *104 Suppl 1*, 123-34.
110. Portier, C.J. and Lyles, C.M. Practicing safe modeling: GLP for biologically based mechanistic models. *Environ Health Perspect* 1996, *104*, 806.
111. Portier, C.J., Kopp-Schneider, A. and Sherman, C.D. Calculating tumor incidence rates in stochastic models of carcinogenesis. *Math Biosci* 1996, *135*, 129-46.
112. Portier, C.J., Sherman, C.D., Kohn, M., Edler, L., Kopp-Schneider, A., Maronpot, R.M. and Lucier, G. Modeling the number and size of hepatic focal lesions following exposure to 2,3,7,8-TCDD. *Toxicol Appl Pharmacol* 1996, *138*, 20-30.
113. Sherman, C.D. and Portier, C.J. Stochastic simulation of a multistage model of carcinogenesis. *Math Biosci* 1996, *134*, 35-50.
114. Kopp-Schneider, A. and Portier, C.J. Carcinoma formation in NMRI mouse skin painting studies is a process suggesting greater than two stages. *Carcinogenesis* 1995, *16*, 53-9.
115. Sherman, C.D. and Portier, C.J. Quantitative analysis of multiple phenotype enzyme-altered foci in rat hepatocarcinogenesis experiments: the multipath/multistage model. *Carcinogenesis* 1995, *16*, 2499-506.
116. Hoel, D.G. and Portier, C.J. Nonlinearity of dose-response functions for carcinogenicity. *Environ Health Perspect* 1994, *102 Suppl 1*, 109-13.
117. Kohn, M.C., Lucier, G.W. and Portier, C.J. The importance of biological realism in dioxin risk assessment models. *Risk Anal* 1994, *14*, 993-1000.
118. Kohn, M.C. and Portier, C.J. A model of effects of TCDD on expression of rat liver proteins. *Prog Clin Biol Res* 1994, *387*, 211-22.
119. Kopp-Schneider, A., Portier, C.J. and Sherman, C.D. The exact formula for tumor incidence in the two-stage model. *Risk Anal* 1994, *14*, 1079-80.
120. Kopp-Schneider, A. and Portier, C.J. A stem cell model for carcinogenesis. *Math Biosci* 1994, *120*, 211-32.
121. Luster, M.I., Portier, C., Pait, D.G. and Germolec, D.R. Use of animal studies in risk assessment for immunotoxicology. *Toxicology* 1994, *92*, 229-43.³
122. Portier, C.J., Lucier, G.W. and Edler, L. Risk from low-dose exposures. *Science* 1994, *266*, 1141-2.
123. Portier, C.J. Biostatistical issues in the design and analysis of animal carcinogenicity experiments. *Environ Health Perspect* 1994, *102 Suppl 1*, 5-8.
124. Sherman, C.D., Portier, C.J. and Kopp-Schneider, A. Multistage models of carcinogenesis: an approximation for the size and number distribution of late-stage clones. *Risk Anal* 1994, *14*, 1039-48.
125. Bailer, A.J. and Portier, C.J. An index of tumorigenic potency. *Biometrics* 1993, *49*, 357-65.

³ Board of Publications, Best Paper Award, Society of Toxicology, 1995

126. Carr, G.J. and Portier, C.J. An evaluation of some methods for fitting dose-response models to quantal-response developmental toxicology data. *Biometrics* 1993, *49*, 779-91.
127. Fenger, J., Forslund, J., Grandjean, P., Gron, P., Jensen, F., Keiding, L., Kjaergaard, S., Larsen, J., Lewtas, J., Lynge, E., Moller, H., Moller, L., Nielsen, P., Ostenfeldt, N., Pilsgaard, H., Portier, C., Poulsen, E., Rastogi, S., Skov, T., Thomsen, A., Ulbak, K. and Osterlind, A. Report: The Working Group On Cancer And The Non-Occupational Environment. *Pharmacology and Toxicology* 1993, *72*, 167-171.
128. Kohn, M.C. and Portier, C.J. Effects of the mechanism of receptor-mediated gene expression on the shape of the dose-response curve. *Risk Anal* 1993, *13*, 565-72.
129. Kohn, M.C., Lucier, G.W., Clark, G.C., Sewall, C., Tritscher, A.M. and Portier, C.J. A mechanistic model of effects of dioxin on gene expression in the rat liver. *Toxicol Appl Pharmacol* 1993, *120*, 138-54.
130. Lucier, G.W., Portier, C.J. and Gallo, M.A. Receptor mechanisms and dose-response models for the effects of dioxins. *Environ Health Perspect* 1993, *101*, 36-44.
131. Luster, M.I., Portier, C., Pait, D.G., Rosenthal, G.J., Germolec, D.R., Corsini, E., Blaylock, B.L., Pollock, P., Kouchi, Y., Craig, W. and et al. Risk assessment in immunotoxicology. II. Relationships between immune and host resistance tests. *Fundam Appl Toxicol* 1993, *21*, 71-82.
132. Maronpot, R.R., Foley, J.F., Takahashi, K., Goldsworthy, T., Clark, G., Tritscher, A., Portier, C. and Lucier, G. Dose response for TCDD promotion of hepatocarcinogenesis in rats initiated with DEN: histologic, biochemical, and cell proliferation endpoints. *Environ Health Perspect* 1993, *101*, 634-42.
133. Meier, K.L., Bailer, A.J. and Portier, C.J. A measure of tumorigenic potency incorporating dose-response shape. *Biometrics* 1993, *49*, 917-26.
134. Melnick, R.L., Huff, J., Barrett, J.C., Maronpot, R.R., Lucier, G. and Portier, C.J. Cell proliferation and chemical carcinogenesis: symposium overview. *Environ Health Perspect* 1993, *101 Suppl 5*, 3-7.
135. Melnick, R.L., Huff, J., Barrett, J.C., Maronpot, R.R., Lucier, G. and Portier, C.J. Cell proliferation and chemical carcinogenesis: a symposium overview. *Mol Carcinog* 1993, *7*, 135-8.
136. Portier, C.J., Kopp-Schneider, A. and Sherman, C.D. Using cell replication data in mathematical modeling in carcinogenesis. *Environ Health Perspect* 1993, *101 Suppl 5*, 79-86.
137. Portier, C., Tritscher, A., Kohn, M., Sewall, C., Clark, G., Edler, L., Hoel, D. and Lucier, G. Ligand/receptor binding for 2,3,7,8-TCDD: implications for risk assessment. *Fundam Appl Toxicol* 1993, *20*, 48-56.⁴
138. Kopp-Schneider, A. and Portier, C.J. Birth and death/differentiation rates of papillomas in mouse skin. *Carcinogenesis* 1992, *13*, 973-8.

⁴ Best-applied statistics paper, Centers for Disease Control, 1993.

139. Luster, M.I., Pait, D.G., Portier, C., Rosenthal, G.J., Germolec, D.R., Comment, C.E., Munson, A.E., White, K. and Pollock, P. Qualitative and quantitative experimental models to aid in risk assessment for immunotoxicology. *Toxicol Lett* 1992, *64-65 Spec No*, 71-8.
140. Luster, M.I., Portier, C., Pait, D.G., White, K.L., Jr., Gennings, C., Munson, A.E. and Rosenthal, G.J. Risk assessment in immunotoxicology. I. Sensitivity and predictability of immune tests. *Fundam Appl Toxicol* 1992, *18*, 200-10.
141. Piegorsch, W.W., Carr, G.J., Portier, C.J. and Hoel, D.G. Concordance of carcinogenic response between rodent species: potency dependence and potential underestimation. *Risk Anal* 1992, *12*, 115-21.
142. Tritscher, A.M., Goldstein, J.A., Portier, C.J., McCoy, Z., Clark, G.C. and Lucier, G.W. Dose-response relationships for chronic exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin in a rat tumor promotion model: quantification and immunolocalization of CYP1A1 and CYP1A2 in the liver. *Cancer Res* 1992, *52*, 3436-42.
143. Williams, P. and Portier, C. Analytic expressions for maximum likelihood estimators in a non-parametric model of tumor incidence and death. *Communications in Statistics - Theory and Methods* 1992, *21*, 711-732.
144. Williams, P. and Portier, C. Explicit solutions for constrained maximum likelihood estimators in survival/sacrifice experiments. *Biometrika* 1992, *74*, 717-729.
145. Carr, G.J. and Portier, C.J. An evaluation of the Rai and Van Ryzin dose-response model in teratology. *Risk Anal* 1991, *11*, 111-20.
146. Kopp-Schneider, A. and Portier, C.J. Distinguishing between models of carcinogenesis: the role of clonal expansion. *Fundam Appl Toxicol* 1991, *17*, 601-13.
147. Kopp-Schneider, A., Portier, C.J. and Rippmann, F. The application of a multistage model that incorporates DNA damage and repair to the analysis of initiation/promotion experiments. *Math Biosci* 1991, *105*, 139-66.
148. Portier, C.J. and Kopp-Schneider, A. A multistage model of carcinogenesis incorporating DNA damage and repair. *Risk Anal* 1991, *11*, 535-43.
149. Rogan, W.J., Blanton, P.J., Portier, C.J. and Stallard, E. Should the presence of carcinogens in breast milk discourage breast feeding? *Regul Toxicol Pharmacol* 1991, *13*, 228-40.
150. Bailer, A.J. and Portier, C.J. A note on fitting one-compartment models: non-linear least squares versus linear least squares using transformed data. *J Appl Toxicol* 1990, *10*, 303-6.
151. Portier, C.J. and Edler, L. Two-stage models of carcinogenesis, classification of agents, and design of experiments. *Fundam Appl Toxicol* 1990, *14*, 444-60.
152. Kopp, A. and Portier, C.J. A note on approximating the cumulative distribution function of the time to tumor onset in multistage models. *Biometrics* 1989, *45*, 1259-63.
153. Portier, C.J. and Kaplan, N.L. Variability of safe dose estimates when using complicated models of the carcinogenic process. A case study: methylene chloride. *Fundam Appl Toxicol* 1989, *13*, 533-44.

154. Portier, C.J. and Bailer, A.J. Testing for increased carcinogenicity using a survival-adjusted quantal response test. *Fundam Appl Toxicol* 1989, 12, 731-7.
155. Portier, C.J. and Bailer, A.J. Two-stage models of tumor incidence for historical control animals in the National Toxicology Program's carcinogenicity experiments. *J Toxicol Environ Health* 1989, 27, 21-45.
156. Bailer, A.J. and Portier, C.J. Effects of treatment-induced mortality and tumor-induced mortality on tests for carcinogenicity in small samples. *Biometrics* 1988, 44, 417-31.
157. Bailer, A.J. and Portier, C.J. An illustration of dangers of ignoring survival differences in carcinogenic data. *J Appl Toxicol* 1988, 8, 185-9.
158. Portier, C.J. Species correlation of chemical carcinogens. *Risk Anal* 1988, 8, 551-3.
159. Portier, C. Life table analysis of carcinogenicity experiments. *Journal of the American College of Toxicology* 1988, 7, 575-582.
160. Portier, C.J. Statistical properties of a two-stage model of carcinogenesis. *Environ Health Perspect* 1987, 76, 125-31.
161. Portier, C.J. and Hoel, D.G. Issues concerning the estimation of the TD50. *Risk Anal* 1987, 7, 437-47.
162. Portier, C.J. and Bailer, A.J. Simulating failure times when the event of interest is unobservable with emphasis on animal carcinogenicity studies. *Comput Biomed Res* 1987, 20, 458-66.
163. Portier, C.J. and Dinse, G.E. Semiparametric analysis of tumor incidence rates in survival/sacrifice experiments. *Biometrics* 1987, 43, 107-14.
164. Kupper, L.L., Portier, C., Hogan, M.D. and Yamamoto, E. The impact of litter effects on dose-response modeling in teratology. *Biometrics* 1986, 42, 85-98.
165. Portier, C.J., Hedges, J.C. and Hoel, D.G. Age-specific models of mortality and tumor onset for historical control animals in the National Toxicology Program's carcinogenicity experiments. *Cancer Res* 1986, 46, 4372-8.
166. Portier, C.J. Type 1 error and power of the linear trend test in proportions under the National Toxicology Program's modified pathology protocol. *Fundam Appl Toxicol* 1986, 6, 515-9.
167. Portier, C. Estimating the tumor onset distribution in animal carcinogenesis experiments. *Biometrika* 1986, 3, 371-378.
168. Portier, C.J. and Hoel, D.G. Design of animal carcinogenicity studies for goodness-of-fit of multistage models. *Fundam Appl Toxicol* 1984, 4, 949-59.
169. Krewski, D., Crump, K.S., Farmer, J., Gaylor, D.W., Howe, R., Portier, C., Salsburg, D., Sielken, R.L. and Van Ryzin, J. A comparison of statistical methods for low dose extrapolation utilizing time-to-tumor data. *Fundam Appl Toxicol* 1983, 3, 140-60.
170. Portier, C. and Hoel, D. Low-dose-rate extrapolation using the multistage model. *Biometrics* 1983, 39, 897-906.

171. Portier, C. and Hoel, D. Optimal design of the chronic animal bioassay. *J Toxicol Environ Health* 1983, 12, 1-19.

Journal Articles: (reviews and other)

172. Portier, C. J., Clausing, P., **Re:** Tarazona et al. (2017): Glyphosate toxicity and carcinogenicity: a review of the scientific basis of the European Union assessment and its differences with IARC. *Arch. Toxicol.* 2017, **91** (9) 3195-3197
173. McPartland, J., Dantzker, H.C., Portier, C.J., Elucidating environmental dimensions of neurological disorders and disease: Understanding new tools from federal chemical testing programs, *Sci Total Env* 2017 **593-594** pages 634-640
174. McPartland, J., Dantzker, H.C., Portier, C.J., Building a robust 21st century chemical testing program at the U.S. Environmental Protection Agency: recommendations for strengthening scientific engagement, *Environ Health Perspect*, 2015. **123**(1): 1-5.
175. Portier, C.J., L.R. Goldman, and B.D. Goldstein, Inconclusive findings: now you see them, now you don't! *Environ Health Perspect*, 2014. 122(2): p. A36.
176. Portier, C., ATSDR in the 21st Century, *Journal of Environmental Health*, 74(7):30-1, 2011
177. Portier, C. *Comprehensive Public Health. Public Health Rep.* 2011 126: Supp 1:3-6
178. Glass, R., Rosenthal, J., Jessup, C., Birnbaum, L., Portier, C. Tackling the research challenges of health and climate change. *Env. Health Perspectives* 2009 117 (12), A534-A535
179. Woodruff TJ, Zeise L, Axelrad DA, Guyton KZ, Janssen S, Miller M, et al. 2008. Meeting report: moving upstream-evaluating adverse upstream end points for improved risk assessment and decision-making. *Environmental health perspectives* 116(11): 1568-1575.
180. Portier, C. Risk Factors for Childhood Leukemia: Discussion and Summary, *Radiation Protection Dosimetry* 2009 **132**(2), 273-274.
181. Gohlke, J. M., Hrynkow, S. H., Portier, C. J., Health, Economy and Environment: Sustainable Energy Choices for a Nation, *Environmental Health Perspectives* 2008 **116** (6), 236-237
182. Kissling, G. E., C. J. Portier and J. Huff. MtBE and cancer in animals: Statistical issues with poly-3 survival adjustments for lifetime studies. *Regul Toxicol Pharmacol.* 2008 **50** (3) 428-429
183. Barton, H. A., W. A. Chiu, R. Woodrow Setzer, M. E. Andersen, A. J. Bailer, F. Y. Bois, R. S. Dewoskin, S. Hays, G. Johanson, N. Jones, G. Loizou, R. C. Macphail, C. J. Portier, M. Spendiff and Y. M. Tan. Characterizing uncertainty and variability in physiologically based pharmacokinetic models: state of the science and needs for research and implementation. *Toxicol Sci* 2007 **99**(2): 395-402.
184. Gohlke, J. M. and C. J. Portier (2007). The forest for the trees: a systems approach to human health research. *Environ Health Perspect* 2007**115**(9): 1261-3.

185. Portier, C. J., Suk, W. A., Schwartz, D. A., Filling the translation-policy gap. *Env. Health Perspectives* 2007 **115** (3) A125
186. Becker, R. A., C. J. Borgert, S. Webb, J. Ansell, S. Amundson, C. J. Portier, A. Goldberg, L. H. Bruner, A. Rowan, R. D. Curren and W. T. Stott (2006). "Report of an ISRTP workshop: progress and barriers to incorporating alternative toxicological methods in the U.S." *Regul Toxicol Pharmacol* 2006 **46**(1): 18-22.
187. TCDD in female Sprague-Dawley rats. *Organohalogen Compounds* 1996, *29*, 222-227.
188. Portier, C.J. and D.A. Schwartz, The NIEHS and the National Toxicology Program: an integrated scientific vision. *Environ Health Perspect*, 2005. **113**(7): p. A440.
189. Portier, C. J., and Schwartz, D. A.. The NIEHS and the National Toxicology Program: an integrated scientific vision. *Environ Health Perspect* 2005, **113**, A440.
190. Portier, C.J., Suk, W. A. and D.A. Schwartz, Filling the translation-policy gap. *Environ Health Perspect*, 2005. **115**(3): p. A125.
191. Portier, C.J. Comments on the International Symposium on Light, Endocrine Systems and Cancer. *Neuroendocrinol Lett* 2002, *23 Suppl 2*, 79-81.
192. Portier, C. Chipping away at environmental health risk assessment. *Risk Policy Report* 2001, *8*, 37-38.
193. Portier, C. Decisions about environmental health risks: What are the key questions and how does this apply to melatonin? *Zentralblatt fur Arbeitsmedizin* 2000, *50*, 312-314.
194. Portier, C. Risk ranges for various endpoints following exposure to 2,3,7,8-TCDD. *Food Addit Contam* 2000, *17*, 335-46.
195. Brooks, E., Kohn, M., Van Birgelen, A., Lucier, G. and Portier, C. Stochastic models for papilloma formation following exposure to TCDD. *Organohalogen Compounds* 1999, *41*, 522-524.
196. Portier, C., Edler, L., Jung, D., Needham, L., Masten, S.A., Parham, F. and Lucier, G. Half-lives and body burdens for dioxin and dioxin-like compounds in humans estimated from an occupational cohort in Germany. *Organohalogen Compounds* 1999, *42*, 129-138.
197. Tritscher, A., Mahler, J., Portier, C., Lucier, G. and Walker, N.J. TCDD-induced lesions in rat lung following oral exposure. *Organohalogen Compounds* 1999, *42*, 285-288.
198. Lucier, G. and Portier, C. New Cancer Risk Guidelines. *Issues in Science and Technology* 1996, *13*, 10.
199. Portier, C. and Kohn, M. A biologically-based model for the carcinogenic effects of 2378-
200. Portier, C., Lucier, G. and Damstra, T. Dioxin research in Vietnam. *Science* 1995, *270*, 901.
201. Portier, C. and Kohn, M. Receptor Mediated Carcinogenesis and Dioxin. *Organohalogen Compounds* 1995, *26*, 267-272.
202. Edler, L. and Portier, C. Pharmacokinetic modeling of receptor/enzyme pathways for the action of dioxins. *Chemosphere* 1994, *25*, 239-242.

203. Edler, L., Portier, C. and Kopp-Schneider, A. Zur existenz von schwellenwerten: Wissenschaftliche methode oder statistisches artefakt in der risikoabschätzung. *Zbl Arbeitsmed* 1994, 44, 16-21.
204. Kohn, M., Lucier, G., Sewall, C. and Portier, C. Physiological modeling of the effects of TCDD on thyroid hormones in the rat. *Organohalogen Compounds* 1994, 21, 223-226.
205. Portier, C., Kohn, M., Sherman, C.D. and Lucier, G. Modeling the number and size of hepatic focal lesions following exposure to 2378-TCDD. *Organohalogen Compounds* 1994, 21, 393-397.
206. Sherman, C.D. and Portier, C. The multipath/multistage model. *Informatik und Epidemiologie in Medizin und Biologie* 1994, 25, 250-254.
207. Sherman, C.D. and Portier, C. The multipath/multistage model of carcinogenesis. *Organohalogen Compounds* 1994, 21, 451-455.
208. Portier, C.J. Mechanistic modeling and risk assessment. *Pharmacol Toxicol* 1993, 72 Suppl 1, 28-32.
209. Portier, C. Quantitative Risk Assessment. *ChemTech* 1990, 20, 484-487.

Books/Book Chapters:

210. International Agency for Research on Cancer. Shiftwork, painting and firefighting (C. Portier member). *IARC Monographs on the Evaluation of Carcinogenic Risks to Humans Volume 98*. 2008 In press.
211. Trong, L., Portier, C.J. (eds) Proceedings of the Viet Nam – United States Scientific Conferences on Human Health and Environmental Effects of Agent Orange/Dioxin, Part 1: Environmental Effects - 3-6 March, 2002. Ha Noi, Vietnam, 2004.
212. Trong, L., Portier, C.J. (eds) Proceedings of the Viet Nam – United States Scientific Conferences on Human Health and Environmental Effects of Agent Orange/Dioxin, Part 2: Human Health Effects - 3-6 March, 2002. Ha Noi, Vietnam, 2004.
213. DeVito, M., Kim, A.H., Walker, N., Parham, F. and Portier, C. Dose-response modeling for 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Dioxins and Health*; 2 ed.; John Wiley and Sons: Hoboken, NJ, 2003.
214. World Health Organization. Establishing a dialogue on Risks from Electromagnetic Fields. Sahl, J., Bonner, P., Kemp, R., Kheifets, L., Repacholi, M., van Deventer, E., Vogel, E. and Portier, C. WHO Press, 2002
215. International Agency for Research on Cancer. Non-ionizing Radiation, Part 1: Static and Extremely Low Frequency Electric and Magnetic Fields (C. Portier member). I *IARC Monographs on the Evaluation of Carcinogenic Risks to Humans Volume 80*. 19-26 2002
216. Wolfe, M., Boorman, G., Olden, K. and Portier, C. Power-Line Frequency Electric and Magnetic Fields: Effects on Human Health. *Human Health Risks from Exposure to ELF-EMF*; ICNIRP: Maastricht, The Netherlands, 2000.

217. Joint Committee on Food Additives (including C. Portier), World Health Organization/Food and Agriculture Organization. (1999) Evaluation of certain food additives and contaminants: Forty-ninth report of the Joint FAO/WHO Expert Committee on Food Additives. JCFA. WHO Technical Series #884. 1999.
218. Piver, W., Ando, M., Ye, F. and Portier, C. Temperature and air pollution as risk factors for cerebral vascular diseases in Tokyo, July-August 1980-1995. Proceedings of the 10-th Global Warming International Conference 1999
219. National Institute of Environmental Health Sciences. NIEHS Report on Health Effects from Exposure to Power-Line Frequency Electric and Magnetic Fields. Portier, C.J., Wolfe, M.S., Boorman, G.A., Bernheim, N.J., Galvin, M.J., Newton, S.A., Parham, F.M. and Olden, K.O. NIEHS 1999
220. Willems, B., Portier, C. and Lucier, G. Mechanism-based carcinogenic risk assessment of estrogens and estrogen-like compounds. *The Handbook of Environmental Chemistry*; Springer-Verlag: Heidelberg, 1999.
221. Portier, C.J. and Germolec, D. Immunotoxicology. *Encyclopedia of Biostatistics*; Wiley and Sons: Sussex, England, 1998 pp 1998-2000.
222. Portier, C.J. and Wolfe, M.S. Risk Communication: The focus in the NIEHS RAPID Program's review of EMF health Hazards. *Risk Perception, Risk Communication and Its Application to EMF Exposure*; ICNIRP: Oberschleisheim, Germany, 1998; pp 295-302.
223. Portier, C.J. Risk ranges for various endpoints following exposure to 2,3,7,8-TCDD. *WHO-ECEH/IPCS Assessment of health risk of dioxins*; International Program for Chemical Safety: Geneva, 1998; pp 23.
224. Portier, C.J. and Wolfe, M.S. (Eds.) EMF Science Review Symposium Breakout Group Report for Epidemiology Research Findings; National Institute of Environmental Health Sciences: Research Triangle Park, North Carolina, 1998.
225. Portier, C.J. and Wolfe, M.S. (Eds.) EMF Science Review Symposium Breakout Group Report for Clinical and *In Vivo* Laboratory Findings. In *NIH Publication Number 98-4400*; National Institute of Environmental Health Sciences: Research Triangle Park, North Carolina, 1998.
226. Portier, C.J. and Wolfe, M.S. (Eds.) Assessment of Health Effects from Exposure to Power-Line Frequency Electric and Magnetic Fields. In *NIH Publication Number 98-3981*; National Institute of Environmental Health Sciences: Research Triangle Park, North Carolina, 1998; pp 508.
227. Sherman, C.D. and Portier, C.J. Multistage carcinogenesis Models. *Encyclopedia of Biostatistics*; Wiley and Sons: Sussex, England, 1998; pp 2808-2814.
228. Portier, C.J. and Wolfe, M.S. Linking science to decisions: A strategy for electric and magnetic fields. *Biological Effects of ELF Electric and Magnetic Fields*; ICNIRP: Oberschleisheim, Germany, 1997; pp 211-218.
229. Portier, C.J. and Wolfe, M.S. (Eds.) EMF Science Review Symposium Breakout Group Report for Theoretical Mechanisms and *In Vitro* Research Findings; National Institute of Environmental Health Sciences: Research Triangle Park, North Carolina, 1997.

230. Buchanan, R. and Portier, C.J. The use of data on biologically reactive intermediates in risk assessment. *Biological reactive intermediates V : basic mechanistic research in toxicology and human risk assessment*; 387 ed.; Plenum Press: New York, 1995.
231. Luster, M., Portier, C., Pait, D.G., Rosenthal, G. and Germolec, D. Immunotoxicology and Risk Assessment. *Methods in immunotoxicology*; Wiley-Liss: New York, 1995; pp 51-68.
232. Portier, C.J. Quantitative models for cancer dose-response relationships: parameter estimation. *Low-Dose Extrapolation of Cancer Risks*; ILSI Press: Washington, 1995; pp 123-134.
233. Bailer, A.J. and Portier, C.J. Modeling risks from water contaminants: the application of concentration-response models. *Water contamination and health : integration of exposure assessment, toxicology, and risk assessment*; Dekker: New York, 1994; pp 447-466.
234. Kohn, M.C. and Portier, C.P. A model of the effects of TCDD on expression of rat liver proteins. *Receptor Mediated Biological Processes: Implications for Evaluating Carcinogens*; Wiley-Liss: New York, 1994; pp 211-222.
235. Kohn, M.C., Lucier, G.W. and Portier, C.J. Receptor mechanisms and dioxin risk assessment. *Hazardous Waste and Public Health: International Congress on the Health Effects of Hazardous Waste*; Princeton Press: Princeton, NJ, 1994; pp 421-432.
236. Portier, C.J. and Sherman, C.D. The potential effects of chemical mixtures on the carcinogenic process within the context of the mathematical multistage model. *Risk Assessment of Chemical Mixtures: Biological and Toxicological Issues*; Academic Press: New York, 1994; pp 665-686.
237. Portier, C.J., Hoel, D.G., Kaplan, N.L. and Kopp, A. Biologically based models for risk assessment. *IARC Sci Publ* 1990, 20-8.
238. Portier, C. Quantitative risk assessment. *Carcinogenicity and Pesticides*; American Chemical Society: New York, 1989; pp 164-174.
239. Portier, C. Design of long-term animal carcinogenicity experiments: dose allocation, animal allocation and sacrifice times. *Statistical Methods in Toxicological Research*; Gordan and Breech: New York, 1989; pp 455-467.
240. Portier, C. Utilizing biologically-based models to estimate carcinogenic risk. *Scientific Issues in Quantitative Cancer Risk Assessment*; Birkhauser: New York, 1989; pp 252-266.
241. Kaplan, N., Hogan, M., Portier, C. and Hoel, D. An evaluation of the safety factor approach in risk assessment. *Developmental Toxicology: Mechanisms and Risk*; Cold Spring Harbor Laboratory: New York, 1988.
242. Portier, C. (1985) Optimal dose/animal allocation for terminal sacrifice studies. *Proceedings of the ASA Conference on Long-Term Animal Carcinogenicity Studies*, 42-50.
243. Portier, C.J., Hoel, D. and VanRyzin, J. Statistical analysis of the carcinogenesis bioassay data relating to the risks from exposure to 2,3,7,8-tertachlorodibenzo-p-dioxin. *Public Health Risks of the Dioxins*; W. Kaufmann: Los Altos, 1984; pp 99-120.

Reports and Agency Publications:

244. A Human Health Perspective on Climate Change, Report of the Interagency Working Group on Climate Change and Health (C. Portier, chair), NIEHS, RTP, NC 2009
245. IARC Report of the Advisory Working Group for Priorities for future IARC Monographs, International Agency for Research on Cancer, Lyon, France 2008
246. NIEHS Centers for Children's Environmental Health and Disease Prevention Research Program, Review Panel Report, NIEHS, RTP, NC 2007
247. WHO Environmental Health Criteria Monograph 238; Extremely Low Frequency Electric and Magnetic Fields, (C. Portier, Chair), pp 543, World Health Organization Press, Geneva, Switzerland – 2007 ISBN 978 92 4 157238 5
248. IARC Report of the Advisory Group to Plan Monograph Volume 100: A Review of Human Carcinogens, International Agency for Research on Cancer, Lyon, France 2006
249. NIEHS Report of the Expert Panel to the NIEHS on Thimerosal Exposure in Pediatric Vaccines: Feasibility of Studies Using the Vaccine Safety Datalink, NIEHS, RTP, NC 2006
250. IARC Report of the Advisory Group to Revise the IARC Monographs Preamble International Agency for Research on Cancer, Lyon, France 2005
251. NTP. A National Toxicology Program for the 21st Century: A roadmap to achieve the NTP vision, pp. 4. National Toxicology Program/National Institute of Environmental Health Sciences, Research Triangle Park, NC. 2004
252. NTP. NTP Current directions and evolving strategies, pp. 4. National Toxicology Program/National Institute of Environmental Health Sciences, Research Triangle Park, NC. 2004
253. NTP. NTP Vision: Toxicology in the 21st Century: The role of the National Toxicology Program, pp. 4. National Toxicology Program/National Institute of Environmental Health Sciences, Research Triangle Park, NC 2003
254. USEPA Science Advisory Panel (C. Portier, Chair). Review of Characterization of Epidemiology Data Relating to Prostate Cancer and Exposure to Atrazine. FIFRA-SAP. US EPA Science Advisory Panel Report No. 2003-02.
255. USEPA Science Advisory Panel (C. Portier, Member). Review of Proposed Science Policy: PPAR-alpha Agonist-Mediated Hepatocarcinogenesis in Rodents and Relevance to Human Health Risk Assessments. FIFRA-SAP. US EPA Science Advisory Panel Report No. 2003-04.
256. USEPA Science Advisory Panel (C. Portier, Chair). Review of Physiologically-Based Pharmacokinetic/Pharmacodynamic Modeling: Preliminary Evaluation and Case Study for the N-Methyl Carbamate Pesticides: A Consultation. FIFRA-SAP. US EPA Science Advisory Panel Report No. 2003-05.

257. USEPA Science Advisory Panel (C. Portier, Member). Comments on Determination of the Appropriate FQPA Safety Factor(s) in the Organophosphorous Pesticide Cumulative Risk Assessment: Susceptibility and Sensitivity to the Common Mechanism, Acetylcholinesterase Inhibition. FIFRA-SAP. US EPA Science Advisory Panel Report No. 2002-03.
258. USEPA Science Advisory Panel (C. Portier, Member). Review Of Draft Termite Bait Product Performance Testing Guideline. FIFRA-SAP. US EPA Science Advisory Panel Report No. 2002-04.
259. USEPA Science Advisory Panel (C. Portier, Chair). Review of Corn Rootworm Plant-Incorporated Protectant Insect Resistance Management and Non-Target Insect Issues. FIFRA-SAP. US EPA Science Advisory Panel Report No. 2002-05.
260. USEPA Science Advisory Panel (C. Portier, Member). Review of Stochastic Human Exposure and Dose Simulation Model (SHEDS). FIFRA-SAP. US EPA Science Advisory Panel Report No. 2002-06.
261. IARC Monographs Volume 80 (C. Portier member) Non-Ionizing Radiation, Part 1: Static and Extremely Low-Frequency (ELF) Electric and Magnetic Fields, 429 pages; 2002
262. USEPA Science Advisory Panel (C. Portier, Member). Comments on Methods to Conduct a Preliminary Cumulative Risk Assessment for Organophosphorous Chemicals. FIFRA-SAP. US EPA Science Advisory Panel Report No. 2002-01.
263. USEPA Science Advisory Panel (C. Portier, Chair). BT Plant-Pesticides Risk and Benefit Assessment. FIFRA-SAP. US EPA Science Advisory Panel Report No. 2001-07.
264. USEPA Science Advisory Panel (C. Portier, Chair). Review of dietary exposure evaluation model (DEEM) and MaxLIP pesticide residue decompositing procedures and software. FIFRA-SAP. Science Advisory Panel Report No. 2001-01B.
265. USEPA Science Advisory Panel (C. Portier, Chair). Review of dietary exposure evaluation model (DEEM). FIFRA-SAP. EPA Science Advisory Panel Report No. 2001-01C.
266. USEPA Science Advisory Panel (C. Portier, Chair). Consultation on Development and Use of Distributions of Pesticide Concentrations in Drinking Water for FQPA Assessments. FIFRA-SAP. EPA Science Advisory Panel Report No. 2001-01D.
267. USEPA Science Advisory Panel (C. Portier, Member). Review of Probabilistic models and methodologies: Advancing the ecological risk assessment process in the EPA Office of Pesticides Programs. FIFRA-SAP. US EPA Science Advisory Panel Report No. 2001-06.
268. USEPA Science Advisory Panel (C. Portier, Chair). Review of Common Mechanism of Action of Thiocarbamates and Dithiocarbamates. FIFRA-SAP. US EPA Science Advisory Panel Report No. 2001-12.
269. USEPA Science Advisory Panel (C. Portier, Member). Review of Preliminary Cumulative Hazard and Dose-Response Assessment for Organophosphorus Pesticides: Determination of Relative Potency and Points of Departure for Cholinesterase Inhibition. FIFRA-SAP. US EPA Science Advisory Panel Report No. 2001-11.

270. USEPA Science Advisory Panel (C. Portier, Chair). Review of Characterization and Non-Target Organism Data Requirements for Protein Plant-Pesticides and- Cumulative Risk Assessment Methodology Issues of Pesticide Substances that Have a Common Mechanism of Toxicity. FIFRA-SAP. EPA-SAP-99-06. February 4, 2000.
271. USEPA Science Advisory Panel (C Portier, Member). Review of food allergenicity of CRY9C Endotoxin and other non-digestible proteins. FIFRA-SAP. USEPA Science Advisory Panel Report 2000-01A.
272. USEPA Science Advisory Panel (C Portier, Member). Review of atrazine: hazard and dose-response assessment and characterization. FIFRA-SAP. USEPA Science Advisory Panel Report No. 2000-05.
273. USEPA Science Advisory Panel (C. Portier, Chairman). Review of Statistical Methods for Use of Composite Data in Acute Dietary Exposure Assessment. FIFRA-SAP. EPA-SAP 99-03B. May 26, 1999.
274. USEPA Science Advisory Panel (C. Portier, Chairman). Review of the Use of Watershed-derived Percent Crop Areas as a Refinement Tool in FQPA Drinking Water Exposure Assessments for Tolerance Reassurance. FIFRA-SAP. EPA-SAP 99-03C. May 26, 1999.
275. USEPA Science Advisory Panel (C. Portier, Member). *Review of Burkholderia cepacia*: Risk Assessment of a Biopesticide with Affinities to a Human Opportunistic Pathogen. FIFRA-SAP. EPA-SAP-99-04. September 30, 1999.
276. USEPA Science Advisory Panel (C. Portier, Member). A Consultation on Protocol Design to Assess Acute Neurotoxicity Studies following Oral Administration of Pesticides. FIFRA-SAP. EPA-SAP-99-04B. September 30, 1999.
277. USEPA Science Advisory Panel (C. Portier, Member). Review of Higher Tier Ecological Risk Assessment for Chlorfenapyr. FIFRA-SAP. EPA-SAP-99-04C. September 30, 1999.
278. USEPA Science Advisory Panel (C. Portier, Chair). Review of -Spray Drift: Review of Proposed Pesticide Deposition Curves to Adjacent Areas. FIFRA-SAP. EPA-SAP-99-04C. September 30, 1999.
279. USEPA Science Advisory Panel (C. Portier, Member). Review of Guidance Document for Small Scale Prospective Ground Water Monitoring Studies. FIFRA-SAP. SAP98-01. November 19, 1998.
280. USEPA Science Advisory Panel (C. Portier, Member). Review of Common Mechanism of Action of Organophosphates. FIFRA-SAP. March, 1998.
281. USEPA Science Advisory Panel (C. Portier, Member). Review of Suggested Probabilistic Risk Assessment Methodology for Evaluating Pesticides That Exhibit a Common Mechanism of Action. FIFRA-SAP. March, 1998.
282. USEPA Science Advisory Panel (C. Portier, Member). Review of the Use of FQPA 10x Safety Factor to Address Special Sensitivity of Infants and Children to Pesticides. FIFRA-SAP. March, 1998.
283. USEPA Science Advisory Panel (C. Portier, Member). Review of Post Application Exposure Guidelines: Series 875-Group B. FIFRA-SAP. March, 1998.

284. USEPA Science Advisory Panel (C. Portier, Member). Review of Proposed Methods for Basin-scale Estimation of Pesticide Concentrations in Flowing Water and Reservoirs for Tolerance Reassessment. FIFRA-SAP. July, 1998.
285. USEPA Science Advisory Panel (C. Portier, Member). Review of Linear Low Dose Extrapolation for Cancer Risk Decisions: Sources of Uncertainty and How They Affect the Precision of Risk Estimates. FIFRA-SAP. July, 1998.
286. USEPA Science Advisory Panel (C. Portier, Member). Review of DDVP (Dichlorvos) Risk Issues. FIFRA-SAP. July, 1998.
287. USEPA Science Advisory Panel (C. Portier, Member). Review of FQPA 10x Safety Factor: Status Report. FIFRA-SAP. July, 1998.
288. USEPA Science Advisory Panel (C. Portier, Member). Review of Chlorothalonil: Mechanism for the Formation of Renal and Forestomach Tumors. FIFRA-SAP. July, 1998.
289. Environmental Protection Agency. Dose Response Modeling for TCDD. Lucier, G., Gallo, M., Portier, C.J., Bayard, S., Cooper, K., Georgopolous, P., McGrath, L., Andersen, M., DeVito, M., White, P., Kedderis, L., Mills, J. and Silbergeld, E. EPA/600/BP-92/001b 1994
290. Portier, C.J. Optimal bioassay design under the Armitage-Doll multistage model of carcinogenesis. PhD, University of North Carolina. 1981.