Review of the Formaldehyde Assessment in the National Toxicology Program 12th Report on Carcinogens

Committee

Alfred O. Berg

Chair

Alfred O. Berg (Chair) is a professor in the Department of Family Medicine at the University of Washington. His research interests are centered around evidence-based research and policy in family medicine, including the development and use of clinical practice guidelines as practice and teaching tools. Dr. Berg has served on many national expert panels using evidence-based methods to guide practice and policy, including chair of the United States Preventive Services Task Force, co-chair of the Otitis Media Panel convened by the Agency for Health Care Policy and Research, chair of the U.S. Centers for Disease Control and Prevention (CDC) Sexually Transmitted Disease Treatment Guidelines Panel, and member of the American Medical Association/CDC panel producing Guidelines for Adolescent Preventive Services. He currently chairs the CDC Panel on Evaluation of Genomic Applications in Practice and Prevention and the National Institutes of Health State-of-the-Science Conference on Family History and Improving Health. Dr. Berg is a member of the Institute of Medicine and has served as a member and chair of several National Academies committees. He is currently a member of the Committee on Governance and Financing of Graduate Medical Education and the Committee on the Assessment of Studies of Health Outcomes Related to the Recommended Childhood Immunization Schedule. Dr. Berg earned an MD from Washington University in St. Louis, Missouri.

John C. Bailar, III

Member

John C. Bailar III is an emeritus professor of the University of Chicago. His research interests have included trends in cancer, assessing health risks, such as the risks of new chemicals, and misconduct in science. His areas of expertise include statistics, biostatistics, epidemiology, and environmental and occupational hazards. Dr. Bailar worked at the National Cancer Institute for 22 years, and he has held academic appointments at Harvard University, McGill University, and the University of Chicago. For 11 years, he was the statistical consultant and a member of the editorial board for The New England Journal of Medicine. He was a MacArthur Fellow from 1990 to 1995, and was elected to both the Institute of Medicine and the International Statistical Institute. Dr. Bailar has served as a member and as chair of many National Academies committees. His most recent committee work has included participation in the Committee on the Analysis of Cancer Risks in Populations Near Nuclear Facilities – Phase I and the Committee to Review Possible Toxic Effects from Past Environmental Containment at Fort Detrick. Dr. Bailar earned an MD from Yale and a PhD in statistics from American University.

A. Jay Gandolfi

Member

A. Jay Gandolfi recently completed a position as Associate Dean for Research and Graduate Studies at the University of Arizona and is now a professor emeritus. His research interests include the molecular and cellular mechanisms of toxicity. His most recent studies have concentrated on the use of in vitro systems to evaluate cell specific injury, including the effects of low-level metal exposure on cell signaling and gene expression and the development of in vitro models to reflect in vivo toxicity. Tissues of interest are the liver, kidney, bladder, and prostate. Dr. Gandolfi earned a PhD in biochemistry and biophysics at Oregon State University.

David Kriebel

Member

David Kriebel is a professor and chair of the Department of Work Environment at the University of Massachusetts, Lowell. He is also co-director of the Lowell Center for Sustainable Production. Dr. Kriebel’s research focuses on the epidemiology of occupational injuries, cancer, and non-malignant respiratory disease. He has published on various aspects of epidemiologic methods, particularly on the use of quantitative exposure data in epidemiology. He has been active in developing dosimetric models to better understand the effects of aerosols on the lungs. He teaches introductory and advanced courses in epidemiology, risk assessment, and research synthesis. Dr. Kriebel has served on several National Academies committees, including the Committee on Beryllium Alloy Exposures and the Committee to Review the Health Effects in Vietnam Veterans of Exposure to Herbicides. Dr. Kriebel received an ScD in epidemiology from Harvard School of Public Health.

John B. Morris

Member

John B. Morris is the Board of Trustees Distinguished Professor, a professor of pharmacology and toxicology, and Assistant Dean for Research in the Department of Pharmaceutical Sciences at the University of Connecticut School of Pharmacy. His research focuses on toxicity of inhaled irritant vapors, irritants and asthma, regional uptake and metabolism of inspired vapors, physiologically based pharmacokinetic modeling, and risk assessment. Dr. Morris has served on the editorial boards for Toxicological Sciences and Inhalation Toxicology and on advisory panels for the National Institutes of Health, the U.S. Environmental Protection Agency, and the Department of Energy. He has also served as a member of the National Research Council Committee on Emergency and Continuous Exposure Guidance Levels for Selected Submarine Contaminants. Dr. Morris earned a PhD in toxicology from the University of Rochester.

Kent E. Pinkerton

Member

Kent E. Pinkerton is a professor in the Department of Pediatrics in the School of Medicine and the Department of Anatomy, Physiology, and Cell Biology in the School of Veterinary Medicine at the University of California, Davis. He also serves as director of the university's Center for Health and the Environment. His research interests focus on the health effects of environmental air pollutants on lung structure and function, the interaction of gases and airborne particles within specific sites and cell populations of the lungs in acute and chronic lung injury, and the effects of environmental tobacco smoke on lung growth and development. Dr. Pinkerton has served as a member of the National Research Council Committee on Estimating Mortality Risk Reduction Benefits from Decreasing Tropospheric Ozone Exposure and the Committee for Review of the Army’s Enhanced Particulate Matter Surveillance Project Report. Dr. Pinkerton received a PhD in pathology from Duke University.

Ivan Rusyn

Member

Ivan Rusyn is a professor in the Department of Environmental Sciences and Engineering in the School of Public Health at the University of North Carolina (UNC) at Chapel Hill. He directs the Laboratory of Environmental Genomics and the Carolina Center for Computational Toxicology in the Gillings School of Global Public Health at UNC-Chapel Hill. He is a member of the Lineberger Comprehensive Cancer Center, the Center for Environmental Health and Susceptibility, the Bowles Center for Alcohol Studies, and the Carolina Center for Genome Sciences. Dr. Rusyn's laboratory focuses on the mechanisms of action of environmental toxicants, the genetic determinants of the susceptibility to toxicant-induced injury, and computational toxicology. He has served on several National Research Council committees and is currently a member of the Committee on Use of Emerging Science for Environmental Health Decisions and the Committee on Toxicology. Dr. Rusyn received his MD from Ukrainian State Medical University in Kiev and his PhD in toxicology from UNC-Chapel Hill.

Toshihiro Shioda

Member

Toshihiro Shioda is an associate professor of medicine at Harvard Medical School and director of the Molecular Profiling Laboratory at Massachusetts General Hospital Cancer Center. Dr. Shioda’s research focuses on the way in which toxic substances in the environment affect the regulation of gene function in the mammalian cells, including stem cells and germ cells. That work has included the use of cutting-edge technologies of genome analysis to determine how environmental endocrine disruptors and other toxins act at the molecular level to disrupt genetic and epigenetic programming in human and mouse cells in live bodies and cell cultures. His laboratory is also exploring the molecular mechanisms of breast cancer resistance to certain anti-estrogen therapies. Dr. Shioda received his MD license in Japan and earned a PhD in biochemistry from Hiroshima University Graduate School of Medicine.

Thomas J. Smith

Member

Thomas J. Smith is a professor emeritus at the Harvard School of Public Health. His research interests are in the characterization of environmental and occupational exposures for studies of health effects and the investigation of the relationship between environmental exposure and internal dose. He has developed a toxicokinetic modeling approach for designing exposure evaluations for epidemiologic studies. He is currently using the approach in a cohort study of lung cancer mortality in the United States trucking industry where workers are exposed to diesel exhaust. Dr. Smith is also involved in an exposure study of human metabolism of 1,3-butadiene. He has served as a member of the National Research Council Committee on Human Health Risks of Trichloroethylene and the Panel on Monitoring and the Institute of Medicine Committee on the Assessment of Wartime Exposure to Herbicides in Vietnam. Dr. Smith received a PhD in chemistry and environmental health from the University of Minnesota.

Meir Wetzler

Member

Meir Wetzler is chief of the Division of Leukemia in the Department of Medicine at Roswell Park Cancer Institute, professor of medicine in the School of Medicine and Biomedical Sciences in the State University of New York at Buffalo, and assistant research professor in the Department of Immunology in the Roswell Park Graduate Division State University of New York at Buffalo. Dr. Wetzler's research interests focus on the role of signal transducer and activation of transcription in leukemogenesis; the cellular and humoral immune response to leukemic-associated antigens; and cytogenetics in acute myeloid leukemia and acute lymphoblastic leukemia. Dr. Wetzler earned an MD from the Hebrew University Hadassah Medical School, Jerusalem, Israel.

Lauren Zeise

Member

Lauren Zeise is Deputy Director for Scientific Affairs for the California Environmental Protection Agency's Office of Environmental Health Hazard Assessment (OEHHA). Dr. Zeise oversees the department's scientific activities, which include the development of risk assessments, hazard evaluations, toxicity reviews, cumulative impacts analyses, frameworks and methodologies for assessing toxicity and cumulative impact, and the department's activities in the California Environmental Contaminant Biomonitoring Program. Dr. Zeise was the 2008 recipient of the Society of Risk Analysis's Outstanding Practitioners Award. She has served on advisory boards and committees of the Environmental Protection Agency, the Office of Technology Assessment, the World Health Organization, and the National Institute of Environmental Health Sciences. Dr. Zeise has served on numerous National Research Council and Institute of Medicine committees. She is currently a member of the Committee on Use of Emerging Science for Environmental Health Decisions and the Committee on Sustainability Linkages in the Federal Government. Dr. Zeise received a PhD in environmental sciences from Harvard University.

Patrick A. Zweidler-McKay

Member

Patrick Zweidler-McKay is Section Chief for Pediatric Leukemia and Lymphoma and an associate professor in the Division of Pediatrics at The University of Texas M.D. Anderson Cancer Center. His interests are in developing targeted therapies for children with leukemias and neuroblastoma and his research laboratory is directed at understanding the critical pathways that contribute to leukemia and neuroblastoma. Clinically, he specializes in treating children with particularly difficult or relapsed forms of leukemia and lymphoma, such as infant acute lymphoblastic leukemia and T-cell leukemia/lymphoma. Dr. Zweidler-McKay has previously served as a member of the National Research Committee to Review the Draft IRIS Assessment on Formaldehyde. Dr. Zweidler-McKay earned a PhD in molecular biology and genetics and an MD from Temple University.