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Engineering & Scientific Consulting

Kevin D. Tucker

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Professional Profile

Mr. Tucker has over 20 years of consulting experience addressing EPA-related regulatory issues for clients. His areas of expertise include conducting registerability and data gap evaluations for new compounds, FIFRA and FFDCA regulatory issues concerning new and existing registrations for conventional pesticides, biopesticides, and products of biotechnology, addressing challenging residue chemistry issues, and data compensation matters. Other areas of expertise include managing and conducting human health exposure and risk assessments for submission to the EPA, identifying and developing mitigation measures, and developing corresponding regulatory strategies.

Mr. Tucker also has experience with the regulatory and technical requirements for import tolerances. In addition, he has experience with electronic data submission issues (USEPA and Canada PMRA) and with preparing and assembling submissions for pesticides submitted under the Global Joint Review (GJR) process. He has also worked on specific pesticide related databases including the USDA's Pesticide Data Program, the FDA's Pesticide Monitoring Database, the FDA's Total Diet Study Database, and the state of California's Pesticide Monitoring Database and Pesticide Use/Usage Database. Additionally, Mr. Tucker has extensive experience in conducting training sessions for the Dietary Exposure Evaluation Model (DEEM™) for both government (EPA, USDA, and Health Canada) and private industry clients.

Academic Credentials & Professional Honors

B.S., Zoology, University of Maryland, 1992

Zoology Honor Society, University of Maryland, 1990

Professional Affiliations

Society for Risk Analysis, 1998-present

International Society of Exposure Analysis, 1999-present

Member of Registration Committee — RRT, 2003-present

Co-Chair of Dietary Assessment Working Group — DAWG, 2002-2004

Publications

Reiss R, Johnston J, Tucker K, DeSesso JM, Keen CL. Estimation of cancer risks and benefits associated with a potential increased consumption of fruits and vegetables. Food and Chemical

Toxicology 2012; 50(12):4421-4427.

Tomerlin JR, Berry MR, Jr., Tran NL, Chew SB, Petersen BJ, Tucker KD, Fleming KH. Development of an exposure potential model for evaluating dietary exposure to chemical residues in food. *J Expo Anal Environ Epidemiol* 1997; 7(1).

Reports

Tomerlin JR, Kidwell JL, Tucker KD, Chew SB, Lee KH. Dietary exposure assessment Phase II Report, Volume 1: Development of summary residue database for dietary exposure assessment. Report prepared for the U.S. Environmental Protection Agency under contract with Technology Applications, Inc., Cincinnati, OH, 1993.

Tran NL, Kidwell JL, Tomerlin JR, Chew SB, Tucker KD. Dietary exposure assessment Phase II Report, Volume 2: Development of NHEXAS core foods and food consumption estimates for dietary exposure assessments. Report prepared for the U.S. Environmental Protection Agency under contract with Technology Applications, Inc., Cincinnati, OH, 1993.

Presentations

Reiss R, Tucker K, Weidling R. Validation of pesticide dietary exposure model using biomonitoring data — Case study for chlorpyrifos. Society for Risk Analysis, Denver, CO, December 2014.

Reiss R, Tucker K, Johnston J. Fruits and vegetables are good for you: Cancer risks and benefits as a case study. American Chemical Society/IUPAC Joint Meeting, San Francisco, CA. 2014.

Reiss R, Johnston J, DeSesso J, Tucker K. Pesticide residues on food: A mountain or a molehill. Presented at the Society for Risk Analysis (SRA) 2011 Annual Meeting, Charleston, SC, December 7, 2011.

Messina JB, Daniels CL, Polakoff BM, Tucker KD. Registration? But it's a natural product. Presentation at the American Chemical Society National Meeting, New York, NY, September 9, 2003.

Polakoff BM, Daniel A., Barraji LM, Tucker KD, Harris CA. Comparison of single-serving market basket survey data to composite monitoring data. Proceedings, IUPAC, Basel Switzerland, August 2002.

Julien EA, Berry MR, Tomerlin JR, Sert MY, Tucker KD, Waylett DK. Recent enhancements to the Dietary Exposure Potential Model. Poster Presented at the International Society for Exposure Analysis Meeting, Monterey, CA, October 24-27, 2000.

Barraji LM, Tucker KD, Tomerlin JR. Estimating individual sample residue distributions from composite sample distributions. Poster Presented at 1999 Annual Meeting of the Society for Risk Analysis, Atlanta, GA, December 5-8, 1999.

Tucker KD, Barraji LM, Walls CL, Polakoff BM. FQPA: The need to expand approaches for estimating dietary exposure to contaminants in meat and milk. Poster Presented at 1999 Annual Meeting of the Society for Risk Analysis, Atlanta, GA, December 5-8, 1999.

Tucker KD. The use of monitoring data in dietary risk assessment. Paper presented at the 34th Annual Pesticide Residue Workshop, St. Pete Beach, FL, July 14, 1997.

Dietary Exposure Evaluation Model™ Training for U.S. EPA, USDA, Health Canada, and private licensees.

Project Experience

Led a project team that compiled electronic data submissions for the EPA and PMRA for a new active ingredient as part of a Global Joint Review. Frequently communicated with both EPA and PMRA staff concerning the electronic submissions and addressed issues as they arose. Further, as part of a submission to APVMA, led a team that designed an Adobe-based file that allowed for easy navigation throughout the electronic submission.

Worked on numerous projects related to complex client issues in the area of residue chemistry. As part of these projects, reviewed numerous field protocols and studies, interfaced with contract laboratories, contacted EPA concerning issues, and gave client expert advice on strategic next steps.

Conducted several registerability and data gap analyses for specific compounds. These evaluations included leading multi-disciplinary regulatory and technical teams in the review of the regulatory status and the toxicological, ecotoxicological, and environmental fate profile of the compounds.

Key member of several project teams that advised clients on the development of global field trial programs in support of import tolerances for both the US and Canada. This involved addressing regulatory issues and evaluating global trade patterns in order to determine the number and location of needed field trials.

Provided data compensation support for numerous pesticide products in a variety of circumstances. Performed in-depth expert evaluations and cost estimates/reconstructions of data in support of clients' data compensation cases. Provided expert reports as required.

Worked on a number of projects related to submission support for PMRA submissions (new active ingredient registrations, new end-use product registrations, and import tolerances). This involved working closely with the registrant and PMRA staff to address issues.

Assisted in the execution of multi-year GLP market basket surveys. Designed approaches for the management and compilation of large volumes of raw data in accordance with GLP procedures.

Conducted or served as an advisor on many assessments of dietary exposures to pesticides in support of registration and re-registration activities in the U.S and Canada.

Worked on many projects related to approval of Experimental Use Permits (EUPs) for plant-incorporated protectant products. Worked with the states to make sure that the EUPs were granted and that all reporting and other follow-up requirements were met.