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Professional Profile

Dr. Koshy is a regulatory toxicologist with broad experience across pesticides, biocides and REACH/CLP. Her expertise includes interpretation of a wide range of toxicological studies – toxicokinetics, acute and chronic toxicity, genotoxicity, carcinogenicity, reproductive and developmental toxicity, immunotoxicity, neurotoxicity, mechanistic studies, and conducting data gap analyses.

Dr. Koshy provides expert scientific support to clients on the technical and regulatory aspects of pesticide and biocide dossiers to support active substance approvals and product authorizations. Prior to joining Exponent, Dr Koshy's extensive experience at the UK regulatory authority - the Chemicals Regulation Division (CRD, Health and Safety Executive, UK) - also included the assessment of impurities, endocrine disruption, dermal absorption and the relevance of groundwater metabolites.

During her 14-year career at CRD, Dr. Koshy represented the UK at European Food Safety Authority (EFSA) and European Chemicals Agency (ECHA) Toxicology expert meetings on pesticides and biocides. Dr Koshy has also delivered training on endocrine disruption, technical equivalence and dermal absorption, including bespoke training at JMAFF, Tokyo.

Academic Credentials & Professional Honors

Ph.D., BIOMEDICAL SCIENCE, Cardiff University, UK, 2009

Publications

Dewhurst, I., Koshy, L., Samuels, S., Shillaker, D. 2015. Retrospective analysis of the immunotoxic effects of plant protection products as reported in the Draft Assessment Reports for their peer review at EU level. EFSA supporting publication 2015:EN-782, 104 pp

Koshy, L., Jones, T. and BéruBé, K.A. (2009). Characterisation and bioreactivity of respirable airborne particles from a municipal landfill. *Biomarkers* 14, (s1) 49-53.

Jones, T., Wlodarczyk A., Koshy, L., Brown, P. Shao, P., and BéruBé, K.A. (2009). The geochemistry and bioreactivity of fly-ash from coal-burning power stations. *Biomarkers* 14, (s1) 45-48.

Koshy, L., Jones, T. and BéruBé, K.A. (2008). Bioreactivity of municipal solid waste landfill leachates – Hormesis and DNA damage. *Water Research* 42, 2177-2183.

Koshy, L., Paris, E., Ling, S., Jones, T. and BéruBé, K.A. (2007). Bioreactivity of leachate from municipal solid waste landfills – assessment of toxicity. *Science of the Total Environment* 384, 171-181.

BéruBé, K.A., Balharry, D., Sexton, K., Koshy, L. and Jones, T. (2007). Combustion-derived nanoparticles: mechanisms of pulmonary toxicity. *Clinical and Experimental Pharmacology and Physiology* 34, 1044-1050.

Presentations

Human Health Endocrine Disruption of Pesticides and Biocides (online seminar). CRD HSE 2024, 2023

Dermal Absorption (in-person workshop). JMAFF 2019

Technical equivalence of pesticides (in-person workshop). CRD HSE York, 2014

Dermal Absorption (in-person workshop). CRD HSE York 2013