Exponent®
Engineering & Scientific Consulting

Anna Rowbotham, Ph.D.

Senior Managing Scientist | Chemical Regulation and Food Safety
Harrogate
+44 1423 878985 | arowbotham@exponent.com

Professional Profile

Anna has nearly 30 years of experience in toxicology, exposure modelling and human health risk assessment gained in senior scientific and management positions in consultancy, regulatory authorities, the agrochemical industry, LGC Ltd., and the Institute for Environment and Health. She has led multi-disciplined teams of specialists to deliver high quality technical and scientific services and advice to clients in the different industrial sectors and has managed programmes of technical support and research for the UK Competent Authority. Anna has authored high quality critical reviews on contemporary chemical risk assessment issues and has provided training in the field of human health risk assessment. Anna is a Member of the British Toxicology Society.

Since 2010, Anna has worked in senior roles in the regulatory consultancy sector to lead and input to projects delivering high quality regulatory support on mammalian toxicology and human health risk assessment to the agrochemical, biocides and industrial and specialty chemicals industries. She has expertise in the registrations of plant protection products, biocides and REACH.

Between 2003 and 2010, as a Senior Toxicologist at the HSE Science and Research Centre, Anna conducted research on population/probabilistic PBPK models; delivered technical support for the Competent Authority function for biocides; inputted to the N3CRs Regulatory Toxicology group's study on exposure-based waiving and prepared critical toxicological reviews for regulatory and other clients.

At LGC Limited, Anna provided toxicology and risk assessment input to the Government Chemist and chemical safety programmes and at Syngenta, she conducted consumer dietary risk assessments for plant protection product registrations as well as research to investigate deterministic and probabilistic dietary risk assessment methods. At the Institute for the Environment and Health, she prepared critical toxicology and risk assessment review reports to disseminate science, identify research priorities and inform policy-making related to environmental hazards.

Anna has a degree in biochemistry and a PhD in the neurotoxicity of organophosphate and carbamate substances.

Academic Credentials & Professional Honors

Ph.D., Pharmaceutical Biology, University of Aston in Birmingham, UK, 1997

B.Sc., Biochemistry, University of Wales (Prifysgol Cymru), 1992

Prior Experience

Principal Consultant, Compliance Services International, Edinburgh, U.K., 2018-2023

Principal Consultant, TSG Consulting, Knaresborough, U.K., 2010-2018

Senior Toxicologist, HSE Science and Research Centre, Buxton, U.K., 2003-2010

Consultant Toxicologist, LGC Limited., Teddington, U.K., 2003

Risk Assessment Specialist (Dietary Safety), Syngenta Limited, Bracknell, U.K., 2000-2003

Project Manager (Safety Policy Division), The Royal Society for the Prevention of Accidents, Birmingham, U.K., 1998-2000

Risk Assessor (Toxicology & Risk Assessment Group), MRC Institute for Environment & Health, Leicester, U.K., 1997-1998

Research Assistant (Dept. Biological and Pharmaceutical Sciences), Aston University, Birmingham, U.K., 1992-1997

Publications

Rowbotham AL and Gibson RM (2011) Exposure-Driven Risk Assessment: Applying Exposure-Based Waiving of Inhalation Toxicity Tests under REACH. Food Chem Toxicol. 49 (8) 1661-73.

Trainor, M., Bosworth, D., Rowbotham, A., Wilday, J., Fraser, S., Saw, J.L (2008) Adapting the EU Seveso II Directive for the globally harmonised system of classification and labelling of chemicals (GHS) in terms of acute toxicity to people: initial study into potential effects on UK industry. Hazards XX: Process Safety and Environmental Protection, IChemE Symposium, Rugby, UK, 154, 743-759.

Trainor, M.T., Wilday, A.J., Moonis, M., Rowbotham, A.L, Fraser, S.J., and Saw, J.L (2008) Adapting the EU Seveso II Directive for GHS: Initial UK study on acute toxicity to people. Safety, Reliability and Risk Analysis: Theory, Methods and Applications, Martorel et al (eds) vol 3, p 2353-2361. ISBN 978-0-415-48513-5, Taylor & Francis Group, London.

Levy LS, Shuker LK and Rowbotham AL (2001) An evaluation of total personal exposure to chromium in the UK environment and associated possible adverse health effects. Env. Geochem. & Health, 23, 181-186

Rowbotham AL, Levy LS and Shuker LK (2000) Chromium in the environment: an evaluation of exposure of the UK general population and possible adverse health effects J. of Toxicol & Env. Health, Part B: Critical Reviews, 3, 145-78.