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Emily Richmond, M.Sc., CBiol, MRSB, ERT

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Professional Profile

Ms. Richmond is an experienced regulatory toxicologist having worked in industry for 17 years, with particular focus on juvenile, reproductive and developmental toxicology. She has considerable technical knowledge gained through 14 years of experience at a contract research organization, designing testing strategies and study directing a wide range of mammalian in vivo toxicity studies for a diverse range of substances such as pharmaceuticals, biologicals, agrochemicals, biocides, industrial chemicals and food flavorings.

A key strength is her technical ability to enable robust review of mammalian in vivo toxicity data across a wide portfolio, resolving complex techno-regulatory problems that frequently arise in these areas.

Emily is a registered European toxicologist and Chartered Biologist. She is also an officer for the UK Industrial Reproduction Toxicology Discussion Group (IRDG), becoming chairperson in 2021, and a committee member for the European Teratology Society (ETS), as well as a member of the US Birth Defects Research and Prevention Society (BDRP, formerly Teratology Society).

Ms. Richmond is a strong advocate for the Refinement, Replacement and Reduction of Animal use and has been involved in a number of initiatives to improve and develop new technical aspects of juvenile and reproductive toxicity testing, contributing to a number of publications in this field. In particular, Emily has worked with the National Center for Refinement, Replacement and Reduction of Animal use in the UK to develop the use of cross-fostering in juvenile toxicity studies to reduce animal numbers and refine experimental data. Emily has also played a key role in the development of novel dosing techniques and micro-blood sampling methodology in juvenile animals.

Academic Credentials & Professional Honors

M.Sc., Toxicology, University of Birmingham, UK, 2005

B.Sc., Biological Sciences, University of Birmingham, UK, 2004

Academic Appointments

Lecturer on Reproduction Toxicology for the M.Sc. Toxicology course at the University of Birmingham, UK

Lecturer on the ETS Developmental and Reproductive Toxicology Training Course

Prior Experience

Principal Juvenile and Reproduction Toxicologist, Sequani Limited, 2015-2018

Senior Study Director/Toxicologist, Sequani Limited, 2005-2015

Professional Affiliations

Member, Royal Society of Biology

UK Industrial Reproduction Toxicology Discussion Group

European Teratology Society

US Teratology Society

Publications

Richmond E and Parsons, P (2019) New Guidance for the Identification of Endocrine Disruptors in the EU for Agrochemicals (Regulation EC No 1107/2009) and Biocides (EU No 528/2012). Reproductive Toxicology, Volume 88, 11

Rasmussen AD, Richmond E, Wegener KM, Downes N and Mullins P (2015). Vigabatrin induced CNS changes in Juvenile Rats: Induction, progression and recovery of myelin related changes. Neurotoxicity, Jan 46.137-144

Richmond E and Clode S (2014). Reduction and Refinement of Rodent Juvenile Toxicity Studies – the simple approach to cross-fostering. Reproductive Toxicology, Volume 48, 27

Dainty T, Richmond E and Davies I (2012). Dried Blood Spot Bioanalysis: An Evaluation of Techniques and Opportunities for Reduction and Refinement in Mouse and Juvenile Rat Toxicokinetic Studies: International Journal of Toxicology – Volume 31, Issue 1. pp 4 – 13

Richmond E, Dainty T and Davies I (2011). The dried blood spot analysis revolution and its application to reproduction toxicity testing of pharmaceuticals. Reproduction toxicology, Volume 32, Issue 2, 172